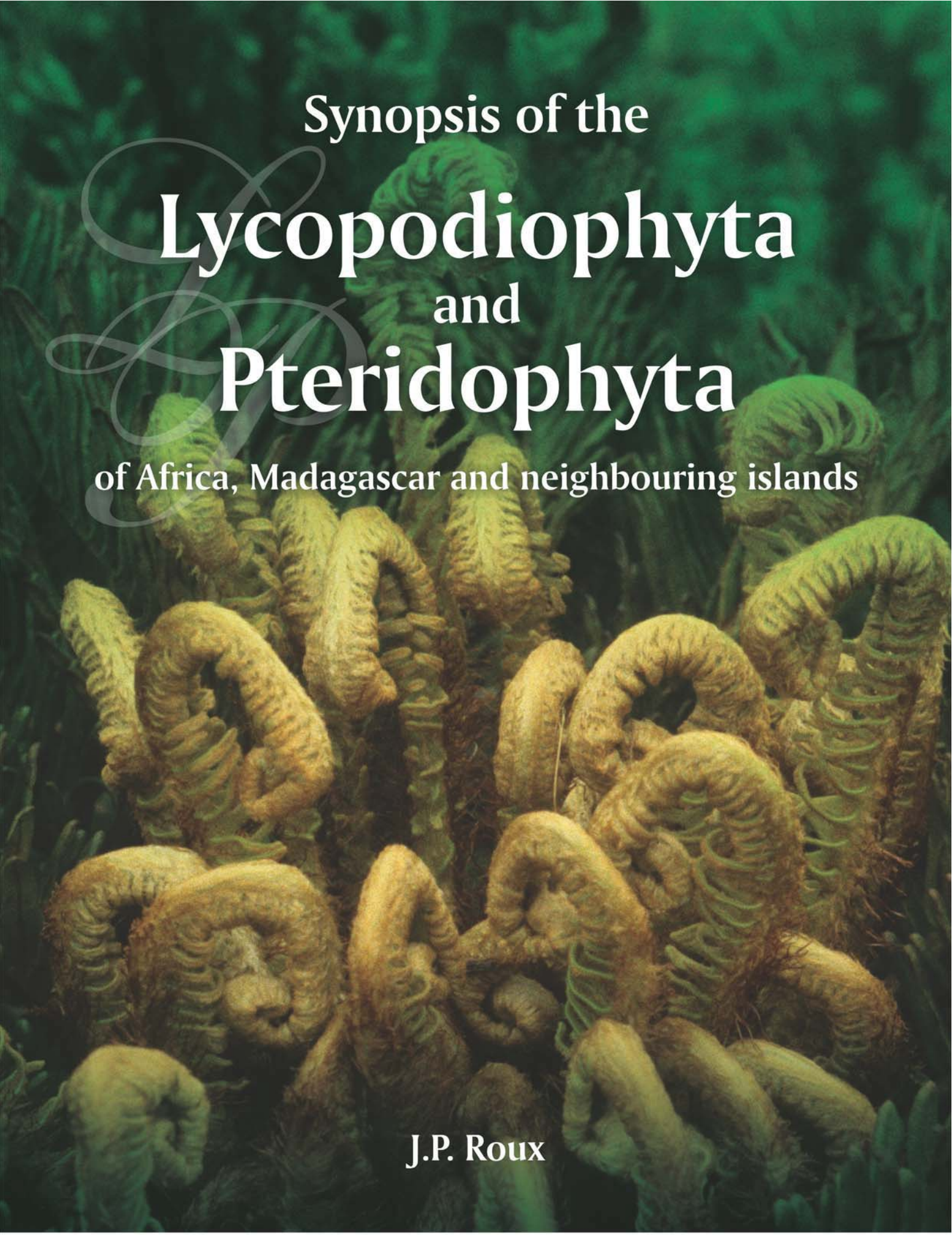
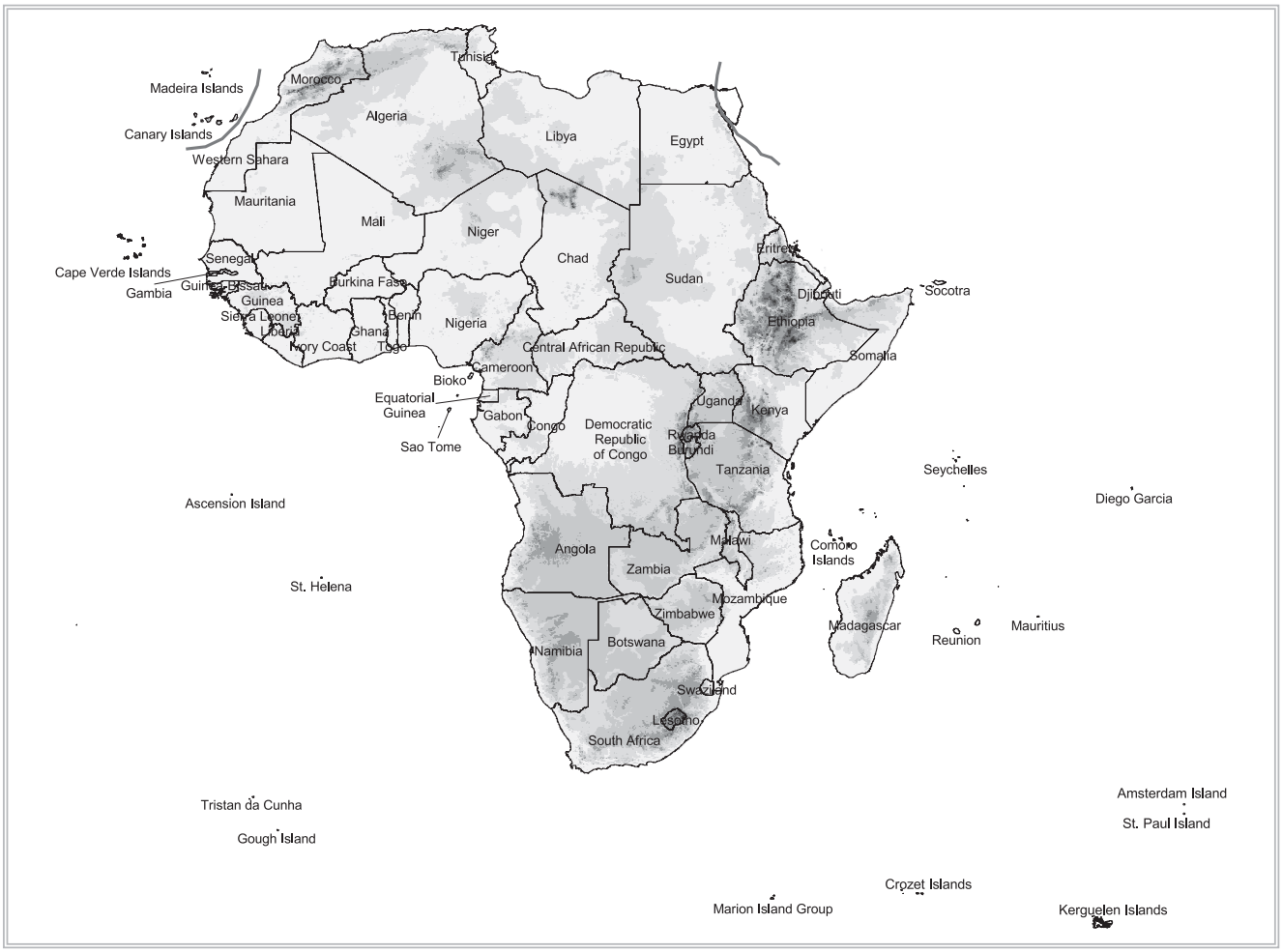
# Synopsis of the Lycopodiophyta and Pteridophyta

## of Africa, Madagascar and neighbouring islands



J.P. Roux

Strelitzia 23




African countries and neighbouring islands covered by the *Synopsis*.

STRELITZIA 23

# Synopsis of the Lycopodiophyta and Pteridophyta of Africa, Madagascar and neighbouring islands

by

J.P. Roux




Pretoria

2009

# STRELITZIA

This series has replaced *Memoirs of the Botanical Survey of South Africa* and *Annals of the Kirstenbosch Botanic Gardens* which SANBI inherited from its predecessor organisations.

The plant genus *Strelitzia* occurs naturally in the eastern parts of southern Africa. It comprises three arborescent species, known as wild bananas, and two acaulescent species, known as crane flowers or bird-of-paradise flowers. The logo of the South African National Biodiversity Institute is based on the striking inflorescence of *Strelitzia reginae*, a native of the Eastern Cape and KwaZulu-Natal that has become a garden favourite worldwide. It symbolises the commitment of the Institute to champion the exploration, conservation, sustainable use, appreciation and enjoyment of South Africa's exceptionally rich biodiversity for all people.

J.P. Roux
South African National Biodiversity Institute, Compton Herbarium, Cape Town

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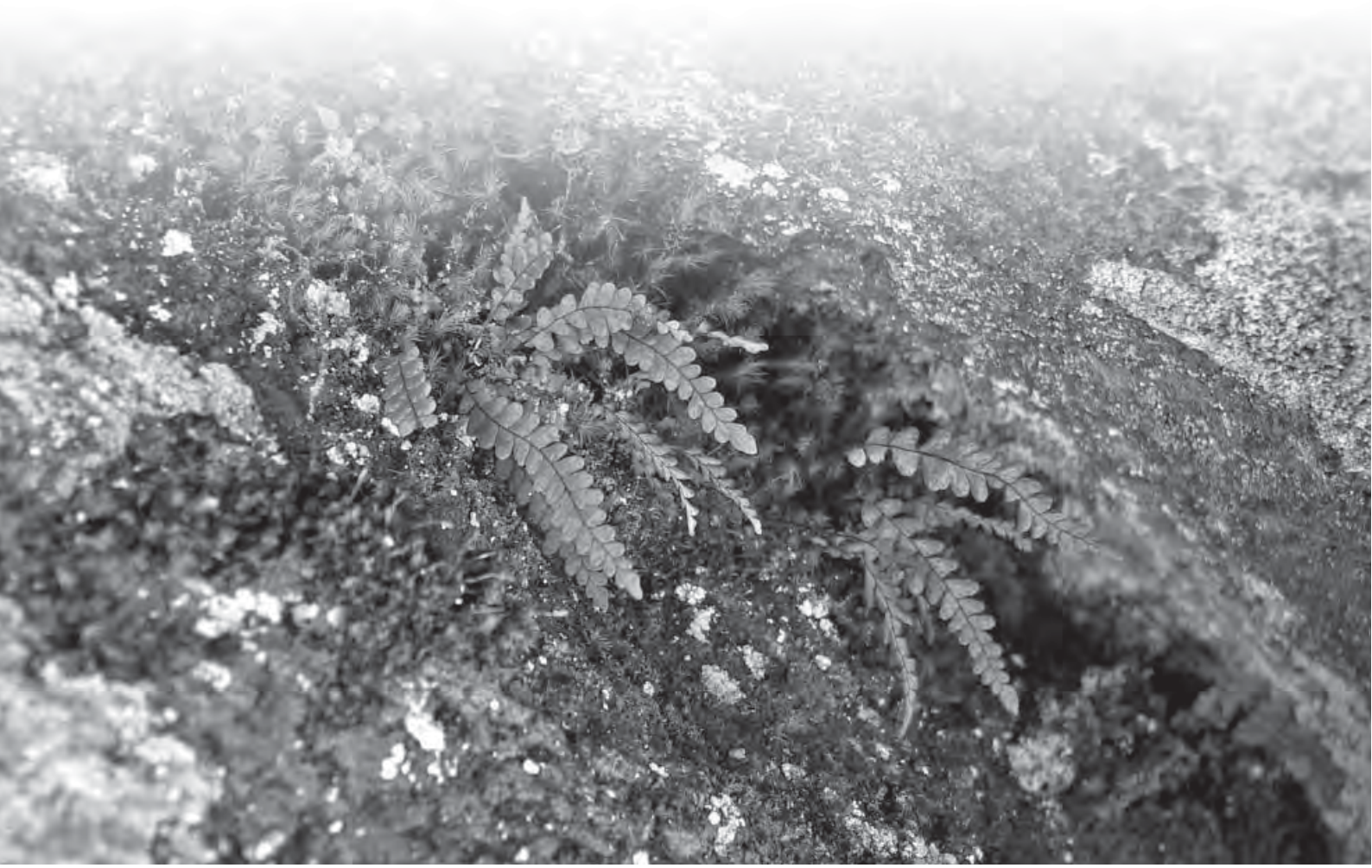
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PLATE 1.—A, *Isoetes eludens*; B, *Huperzia insularis*; C, *Lycopodiella cernua*; D, *Selaginella caffrorum* var. *caffrorum*; E, *Selaginella nubigena*; F, *Equisetum ramosissimum* subsp. *ramosissimum*.



















PLATE 2.—A, *Ophioglossum nudicaule*; B, *Ophioglossum reticulatum*; Ca, *Psilotum nudum*, habit; Cb, synangia; D, *Osmunda regalis*; E, *Todea barbara*; F, *Crepidomanes inopinatum*.



















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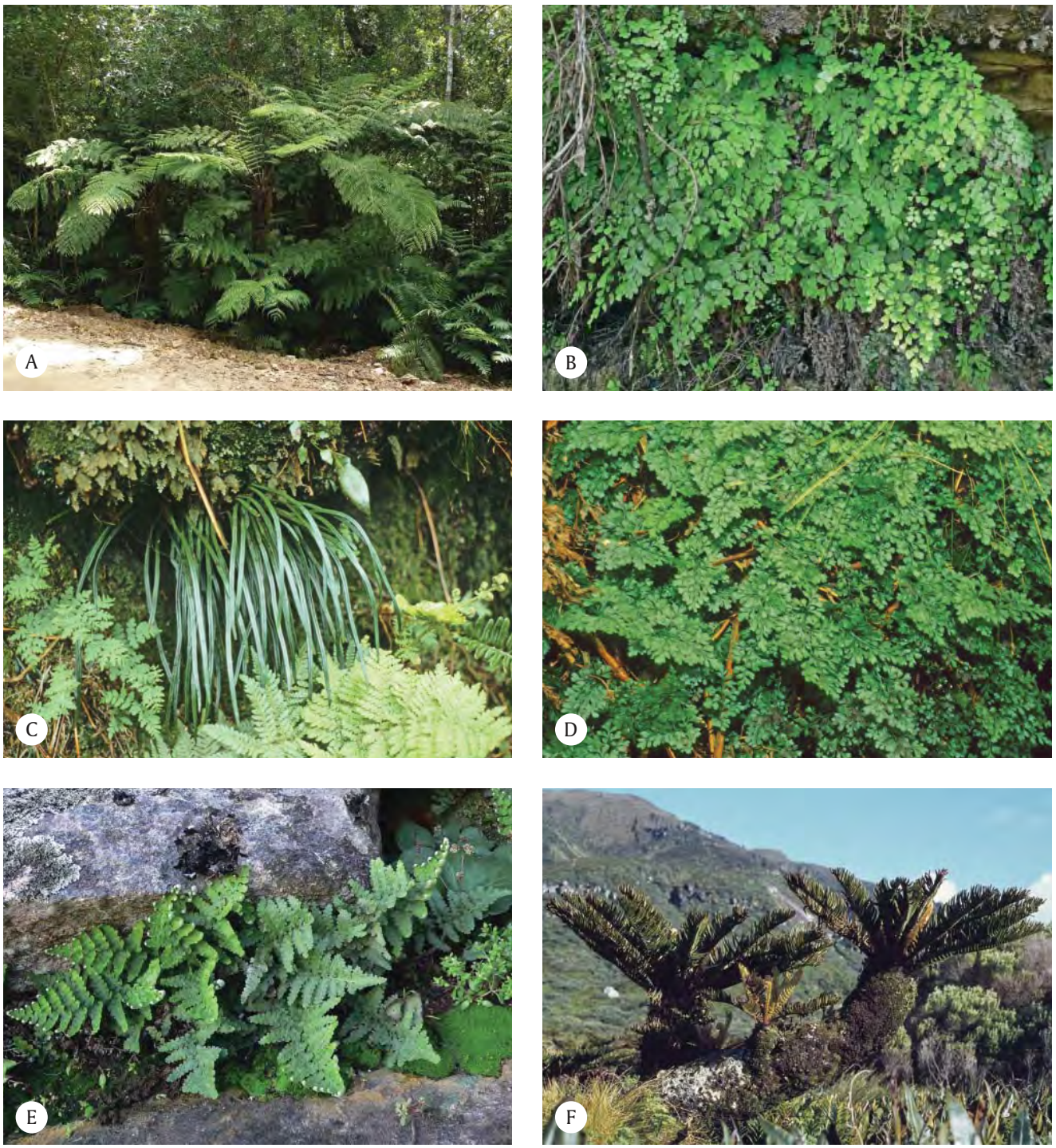



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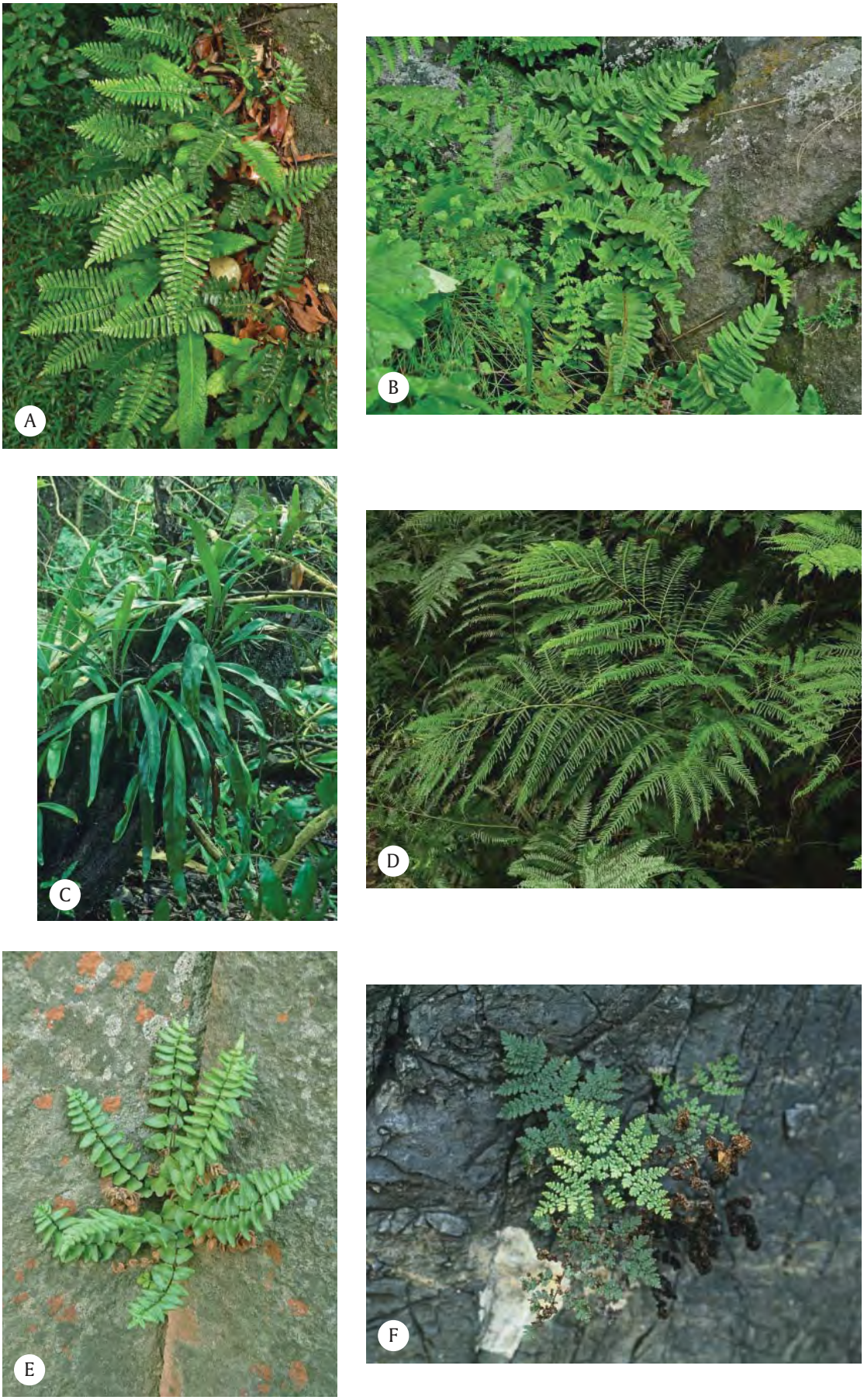



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# INTRODUCTION

Over the past 250 years, many country and regional Floras, checklists and papers documenting the African and Madagascan plant diversity and distribution have been published. In spite of this, there remains a great need and urgency to catalogue the flora of large parts of the African continent, and to provide taxonomic and biogeographical information for the taxa already described from the region. This need is brought about by the continued unsustainable exploitation of the natural resources in many parts of the continent. The large number of new plant species described annually from the region attest to our still poor knowledge of the plants of the region.

The *Filices africanae* of Kuhn, which appeared in 1868, is the only unifying and complete synopsis or catalogue ever published for the pteridophytes occurring in Africa, Madagascar and the neighbouring islands. This work includes the Canary Islands and Madeira. Excluding subspecific taxa, 683 species arranged in 59 genera were documented at the time. As can be expected, that book is now outdated and no longer reflects the true diversity and taxonomy of these plant groups for the defined region. The current *Synopsis* documents the 1 441 species (including subspecific taxa) arranged in 135 genera, for more or less the same geographical region (Table 1). No doubt many more will be discovered and described in the future.

TABLE 1.—Number of families, genera and species (including subspecific taxa and naturalised taxa) recorded for the study area

| | Families | Genera | Species* |
|---|---|---|---|
| Lycopodiophyta | 3 | 5 | 173 |
| Pteridophyta | 33 | 130 | 1 268 |
| TOTAL | 36 | 135 | 1 441 |

*Include species, subspecies, varieties and formas.

Most studies on the flora of Africa and Madagascar have been and are still being done by scientists from first-world countries owing to a general lack of taxonomic literature, skills and infrastructure in the African region. This *Synopsis* aims to document as comprehensively as possible the native and introduced (naturalised) species of the Lycopodiophyta and Pteridophyta occurring on the African continent, Madagascar and the Mascerene Islands, Socotra, the Cape Verde Islands, Ascension Island, St Helena, the Tristan da Cunha and Gough Island groups, Marion and Prince Edward Islands, and the Diego Garcia atoll (see map on inside front cover). Species occurring in the Macaronesian region are not included in the *Synopsis*. The information presented in the *Synopsis* is essential for any future taxonomic and biogeographical study on the flora of the region. Table 2 provides a summary of the family, generic, species (including subspecific taxa) and naturalised lycopod and fern diversity for each country, island and island group within the defined region.

TABLE 2.—Number of families, genera, species (including subspecific taxa) and naturalised species occurring in each country, island or island group within the defined region

| Country/island/island group | Families | Genera | Species* | Naturalised |
|---|---|---|---|---|
| Algeria | 17 | 27 | 56 | 1 |
| Amsterdam Isl. | 4 | 4 | 4 | 0 |
| Angola | 32 | 75 | 205 | 0 |
| Annobon | 18 | 32 | 40 | 0 |
| Ascension Isl. | 12 | 14 | 15 | 1 |
| Benin | 20 | 22 | 32 | 0 |
| Bioko | 29 | 80 | 214 | 0 |
| Botswana | 12 | 18 | 32 | 0 |
| Burkina Faso | 7 | 8 | 12 | 0 |
| Burundi | 32 | 69 | 178 | 0 |
| Cameroon | 30 | 87 | 274 | 0 |
| Cape Verde Isl. | 17 | 23 | 36 | 0 |
| Central African Republic | 26 | 42 | 85 | 0 |
| Chad | 11 | 13 | 18 | 0 |
| Comoro Isl. | 27 | 64 | 130 | 0 |
| Congo | 27 | 56 | 138 | 2 |
| Côte d'Ivoire | 17 | 31 | 71 | 0 |

TABLE 2.—Number of families, genera, species (including subspecific taxa) and naturalised species occurring in each country, island or island group within the defined region (cont.)

| Country/island/island group | Families | Genera | Species* | Naturalised |
|---|---|---|---|---|
| Crozet Isl. | 6 | 7 | 7 | 0 |
| Democratic Republic of Congo | 31 | 84 | 303 | 2 |
| Diego Garcia | 4 | 5 | 8 | 0 |
| Djibouti | 5 | 9 | 13 | 0 |
| Egypt | 8 | 11 | 20 | 2 |
| Equatorial Guinea | 26 | 57 | 133 | 0 |
| Eritrea | 11 | 15 | 25 | 0 |
| Ethiopia | 28 | 73 | 171 | 0 |
| Gabon | 25 | 49 | 126 | 0 |
| Gambia | 7 | 7 | 9 | 0 |
| Ghana | 29 | 56 | 149 | 0 |
| Gough Isl. | 10 | 15 | 28 | 0 |
| Guinea | 30 | 73 | 211 | 0 |
| Guinea-Bissau | 14 | 19 | 23 | 0 |
| Inaccessible Isl. | 11 | 15 | 26 | 0 |
| Kenya | 32 | 87 | 275 | 3 |
| Kerguelen Isl. | 5 | 6 | 6 | 0 |
| Lesotho | 21 | 29 | 61 | 1 |
| Liberia | 30 | 70 | 197 | 0 |
| Libya | 10 | 14 | 20 | 0 |
| Madagascar | 35 | 116 | 612 | 0 |
| Malawi | 31 | 80 | 225 | 1 |
| Mali | 20 | 32 | 59 | 1 |
| Marion Isl. | 5 | 7 | 8 | 0 |
| Mauritania | 3 | 3 | 8 | 0 |
| Mauritius | 31 | 80 | 198 | 2 |
| Morocco | 18 | 27 | 62 | 1 |
| Mozambique | 33 | 77 | 209 | 2 |
| Namibia | 13 | 18 | 55 | 1 |
| Niger | 32 | 70 | 174 | 0 |
| Nigeria | 32 | 70 | 174 | 0 |
| Nightingale Isl. | 6 | 8 | 13 | 0 |
| Pemba | 17 | 17 | 19 | 0 |
| Prince Edward Isl. | 4 | 5 | 5 | 0 |
| Príncipe | 20 | 34 | 64 | 0 |
| Réunion | 30 | 82 | 227 | 1 |
| Rodrigues Isl. | 13 | 16 | 24 | 1 |
| Rwanda | 27 | 72 | 166 | 0 |
| São Tomé | 23 | 61 | 128 | 0 |
| Senegal | 18 | 21 | 32 | 0 |
| Seychelles | 25 | 42 | 72 | 0 |
| Sierra Leone | 25 | 54 | 125 | 0 |
| Socotra | 12 | 17 | 28 | 0 |
| Somalia | 12 | 22 | 38 | 0 |
| South Africa | 32 | 90 | 275 | 15 |
| St Helena | 13 | 17 | 30 | 1 |
| St Paul Isl. | 2 | 2 | 2 | 0 |
| Sudan | 28 | 62 | 170 | 0 |
| Swaziland | 25 | 51 | 93 | 3 |
| Tanzania | 33 | 98 | 392 | 4 |
| Togo | 19 | 30 | 54 | 0 |
| Tristan da Cunha | 11 | 16 | 28 | 0 |
| Tunisia | 16 | 21 | 38 | 0 |
| Uganda | 28 | 79 | 259 | 1 |
| Western Sahara | 0 | 0 | 0 | 0 |
| Zambia | 27 | 59 | 157 | 2 |
| Zanzibar | 12 | 16 | 22 | 0 |
| Zimbabwe | 32 | 84 | 153 | 5 |

*Include species, subspecies, varieties and formas.

Today, with the wide application of electronic equipment, many institutions have developed large data sets containing a wealth of botanical information. These data sets can now be expanded, refined, managed, and the information disseminated with relative ease via the internet. An example of such a regional data set is the *African plants checklist* (http://www.ville-ge.ch/cjb/bd/africa/index.php) or (http://sanbi.org/frames/infofram.htm), which provides a list of the angiosperm plant names for Africa. Checklists of the mosses, liverworts and hornworts also exist for the region (http://www.oshea.demon.co.uk/tbr). To supplement these lists, it was decided to document the lycopods and ferns for the region as well.

To date, 23 lycopod and fern species are known to have naturalised in various parts of the defined region. Many of these species have also become naturalised in other parts of the world:

*Adiantum formosum*, *A. raddianum*, *Azolla caroliniana*, *A. filiculoides*, *Cyrtomium falcatum*, *Deparia japonica*, *Dicksonia antarctica*, *Diplazium esculentum*, *Doodia squarrosa*, *Lygodium japonicum*, *Macrothelypteris torresiana*, *Microlepia strigosa*, *Nephrolepis cordifolia*, *N. exaltata*, *Phlebodium aureum*, *Pityrogramma calomelanos* var. *aureoflava*, *Platycerium bifurcatum*, *Pteris tremula*, *Salvinia molesta*, *S. rotundifolia*, *Selaginella involvens*, *S. pallescens*, *S. plana*, *Sphaeropteris cooperi*, *Woodwardia radicans.*

## PTERIDOPHYTE DIVERSITY AND DISTRIBUTION

It is well known that the pteridophyte diversity in Africa is exceptionally poor (Tryon 1986b) when compared with countries or regions at similar latitudes to the east and west of the continent. Judging from the present-day amphi-Pacific tropical floristic similarities, massive extinction appears to have taken place in Africa in both the pteridophytes and angiosperms. This was brought about by the expanding aridity caused by continental elevation and the gradual strengthening of the cold Benguela Current as the Atlantic Ocean widened. This, coupled with the erosion of the geologically stable continental plate, led to a relatively uniform landscape and a loss of microhabitats suitable for the establishment and evolution of taxa. The significantly more diverse floras along the higher-rainfall mountainous regions of the continent and the significantly more diverse flora of Madagascar unaffected by these events, support this view.

In spite of the poor species diversity, nine, or 26.5% (the only ones in desert and xeric shrubland) of the 34 global biodiversity 'hotspots' (Myers *et al.* 2000) are found within the African and Malagasy regions. 'Hotspots' are defined by two criteria: the region has to contain at least 1 500 endemic vascular plant species and it has to have 30% or less of its original vegetation remaining. All but three of these 'hotspots', the Cape Floristic Region (Mediterranean forests, woodlands and shrublands), the Mediterranean Basin (Mediterranean forests, woodlands and shrublands) and the Succulent Karoo (desert and xeric shrublands), are not skewed towards tropical forest environments, although they contain tropical forest elements as well. It is also evident that most of the 'hotspots' are associated with mountainous terrain. A superficial survey into the distribution of pteridophytes within the defined region demonstrated a strong correlation between regions of high species diversity and endemism and the recognised 'hotspots'.

## ADDENDUM

A taxonomic revision of the fern family Marattiaceae, with the description of a new genus *Ptisana* Murdock, was published more recently (Murdock, A.G. 2008. A taxonomic revision of the eusporangiate fern family Marattiaceae, with description of a new genus *Ptisana*. *Taxon* 57,3: 737–755). The taxonomic implications of this study could not be accommodated in the preparation of this book at this late stage.

# STRUCTURE OF THE SYNOPSIS

## SEQUENCE OF PLANT GROUPS

The arrangement of the taxa in this work does not follow a particular classification system. However, in line with the results of recent phylogentic studies, the lycophytes are separated from the ferns (Raubeson & Jansen 1992; Kenrick & Crane 1997). For the true ferns, here included in the Pteridophyta, the class and ordinal classification proposed by Smith *et al.* (2006) is followed, but the family and generic definitions differ somewhat from that classification. Family and generic definitions are arranged alphabetically rather than phylogenetically. Similarly, species and subspecific taxa are also arranged alphabetically within a genus.

Accepted names are in **boldface**, followed by the author(s) in *italics* and the original publication in full. Below this, the basionym is provided, followed by the homotypic and heterotypic synonyms in chronological order. Isonyms and manuscript names are not listed.

Following the family name, relevant subfamily, tribe, subtribe, section and subsection names are listed. These reference lists are not exhaustive and it is not indicated which names are accepted as it may be influenced by the classification adopted.

## AUTHOR AND REFERENCE CITATIONS

Author citations follow Brummitt & Powell (1992) (http://www.ipni.org/index.html). In preparing the *Synopsis*, an attempt was made to verify the original place of publication of all the names, be it a newly described taxon or a new combination made. This resulted in an extensive literature search, but owing to the age and rarity of some books and periodicals it was not possible to achieve this for a relatively small number of entries. Periodical citations follow *Botanico-Periodicum-Huntianum-2* (BPH–2) by Bridson (2004), whereas *Taxonomic literature* and its supplements by Stafleu & Cowan (1976, 1979, 1981, 1983, 1985, 1986, 1988) and Stafleu & Mennega (1992, 1993, 1995, 1997, 1998, 2000) were followed for books.

## TYPE INFORMATION

The provenance and, where known, the type location are provided for the names and their synonyms. Provenances are quoted verbatim ( '…..' ) from the original protologue if provided, or it is quoted from the type specimen label ( "….." ) where studied. If this information was not available, it was obtained from the literature other than the original place of publication. Where available, the locality data, date of collecting, collector/s, and collector's number are provided. Collectors' initials, where available, were obtained from Lanjouw & Stafleu (1954, 1957), Hepper & Neate (1971), Chaudhri *et al.* (1972), Vegter (1976, 1983, 1986, 1988), Dorr (1977), Gunn & Codd (1981), Brummitt & Powell (1992) and Desmond (1994). Many names have been lectotypified and where this was done the lectotypifying author, the year of publication and page number(s) are indicated, where available.

Several botanical organisations are currently making available high-resolution images of their type holdings via the internet. This positive development will certainly assist plant taxonomists working in less-developed countries who, for various reasons, may never have the opportunity to travel and study type material in the widely located, chiefly European herbaria where most types of African plants are lodged. Some of the major sites where images of type collections can be accessed are:

- Aluka (http://www.aluka.org)
- Botanical Garden and Botanical Museum Berlin-Dahlem (B)—(http://www.bgbm.org)
- Leiden Herbarium (L)—(http://145.18.162.53:81/C8)
- Linnaean Herbarium (London) (LINN)—(http://www.nhm.ac.uk/research-curation/projects/linnaean-typification)
- Missouri Botanical Garden (MO)—(http://mobot.mobot.org/W3T/Search/vast.html)
- Museum Botanicum Hauniense, Copenhagen (C)—(http://130.225.211.158/typedatabase/search.htm)
- Muséum National d'Histoire Naturelle, Paris (P)—(http://coldb.mnhn.fr/colweb/form.do?model=SONNERAT.www sonnerat.wwwsonner)
- Royal Botanic Gardens, Kew (K)—(http://www.kew.org/herbcat/navigator.do)
- Smithsonian National Museum of Natural History (US)—(http://ravenel.si.edu/botany/types/jstaxa/typeFrames.cfm)
- The Bergius Herbarium (SBT)—(http://www.bergianska.se/forskning_herbariet_ark.php?sheet=591)
- University of Zürich (Z)—(http://www.zuerich-herbarien.unizh.ch)

Herbarium acronyms are placed in parenthesis and follow *Index herbariorum*, edn 8 (Holmgren *et al.* 1990). Many herbaria are currently in the process of databasing their collections and in several cases the sheets are provided with a barcode label and number serving as a unique identifier. These numbers can now be used to refer to a particular sheet where a collection is mounted on more than one sheet, or to a particular plant gathering where more than one collection exists on a single sheet. In some electronic databases, these barcode numbers can be used as a search tool.

## ADDITIONAL INFORMATION

The chromosome number, with a reference, is provided where available.

The listing of species distribution by country is based on literature surveys and on limited herbarium surveys. It is realised that for some countries the species listed may be incomplete. Contributing to the challenge of documenting accurate distribution data, is the fact that many African countries have changed names, often repeatedly so. In many cases the country names may also have several versions. Adding to this, has been the redefining of political boundaries for some countries or countries being subdivided to become independent states. A list of the current International Standards Organisation (ISO) (http://www.iso.ch/iso/en/prods-services/iso-3166ma/index.html) country names, and the former names, or forms thereof, is provided in Table 3.

TABLE 3.—Current and former names of countries and major regions, and forms thereof in Africa, Madagascar and neighbouring islands

| Current name | Former name/s |
|---|---|
| Ethiopia | Abyssinia |
| Benin | Dahomey/Haut-Dahomey |
| Bioko | Fernando Po/Fernando Poo |
| Botswana | Bechuanaland Protectorate |
| Burkina Faso | Upper Volta |
| Burundi | Urundi |
| Cameroon | British Cameroun/Cameroun/Kamerun |
| Cape, South Africa | Caput Bonae Spei/Cap. B. Spei/Cape of Good Hope/Cap bone de Esperance/ Prom.(ontorio) bon.(ae) spei |
| Central African Republic | Ubangi-Shari/Oubangui-Chari/Oubangui |
| Central African Republic (part) | Oubangui-Chari-Tchad |
| Chad | Tchad |
| Comoros | Comores |
| Congo | Middle Congo/Moyen-Congo/Congo Brazzaville |
| Côte d'Ivoire | Ivory Coast |
| Democratic Republic of the Congo | Belgian Congo/Congo Belge/Zaïre/Congo Kinshasa |
| Djibouti | French Somaliland |
| Equatorial Guinea | Rio Muni/Spanish Guinea |
| Eritrea | Ethiopia (part) |
| Ghana | Gold Coast |
| Guinea | French Guinea |
| Guinea-Bissau | Portuguese Guinea |
| Gulf of Guinea | Bight of Benin |
| KwaZulu-Natal (province), South Africa | Port Natal/Natalia/Natal |
| Lesotho | Basutoland |
| Malagasy Republic | Madagascar |
| Malawi | Nyassaland |
| Mali | French Sudan (part), Sudanese Republic |
| Mauritius | Isle de France/Maurice/l'Ile-de-France |
| Mauritius, Réunion and Rodrigues collectively | Isle de Mascareignes |
| Morocco | Maroc/Spanish Morocco |
| Namibia | South-West Africa |
| NE Algeria | Numidia |
| NE Libya | Cyrenaica/Cyrene/Cyrénaïque |
| NE Sudan | Nubia |
| NW Libya | Tripolitania/Tripolitaine |
| Príncipe | Ile du Prince, Prince's Island |
| Réunion | Bourbon/Borbonia/Ins.(ula) Borboniae/l'Ile de Bourbon |
| Rwanda | Ruanda |
| São Tomé | San Thomé, St Thomas Island |
| Senegal | Sénégal |
| Senegal, Gambia, Portuguese Guinea, Guinea | Senegambia |
| Socotra | Soqotra |
| Somalia (part) | British Somaliland/Italian Somaliland |
| South Africa | Union of South Africa |
| Sudan | Anglo-Egyptian Sudan/Soudan |
| Tanzania | German East Africa/Tanganyika Territory |
| Tristan da Cunha | Tristan d'Acunha |
| Uganda | Ouganda |
| Western Sahara | Rio de Oro/Spanish Sahara |
| Zambia | Northern Rhodesia |
| Zimbabwe | Rhodesia/Southern Rhodesia |

# SYNOPSIS OF THE FAMILIES AND GENERA

The numbers of subgeneric taxa (species/subspecies/varieties/formas) are given after the genus name.

## LYCOPODIOPHYTA

### LYCOPODIOPSIDA p. 8

#### Isoetales p. 8

##### Isoetaceae

*Isoetes* (26/5/0/0)

#### Lycopodiales p. 12

##### Lycopodiaceae

*Huperzia* (37/0/1/0)
*Lycopodiella* (4/0/0/0)
*Lycopodium* (8/0/0/0)

#### Selaginellales p. 19

##### Selaginellaceae

*Selaginella* (86/0/4/2)

## PTERIDOPHYTA

### EQUISETOPSIDA p. 29

#### Equisetales p. 29

##### Equisetaceae

*Equisetum* (3/0/0/0)

### MARATTIOPSIDA p. 31

#### Marattiales p. 31

##### Marattiaceae

*Angiopteris* (2/0/0/0)
*Marattia* (3/0/0/0)

### PSILOTOPSIDA p. 32

#### Ophioglossales p. 32

##### Ophioglossaceae

*Botrychium* (2/0/0/0)
*Ophioglossum* (25/2/1/0)

#### Psilotales p. 35

##### Psilotaceae

*Psilotum* (2/0/0/0)

### POLYPODIOPSIDA p. 36

#### Osmundales p. 36

##### Osmundaceae

*Osmunda* (1/0/0/0)
*Todea* (1/0/0/0)

#### Hymenophyllales p. 37

##### Hymenophyllaceae

*Abrodictyum* (7/0/0/0)
*Crepidomanes* (13/0/0/0)
*Didymoglossum* (17/0/1/0)
*Hymenophyllum* (30/0/1/0)
*Polyphlebium* (2/0/0/0)
*Trichomanes* (4/0/0/0)
*Vandenboschia* (2/0/0/0)

#### Gleicheniales p. 49

##### Gleicheniaceae

*Dicranopteris* (3/0/0/0)
*Gleichenia* (3/0/1/0)
*Sticherus* (3/1/0/0)

#### Schizaeales p. 51

##### Anemiaceae

*Anemia* (9/0/0/0)
*Mohria* (7/0/0/0)

##### Lygodiaceae

*Lygodium* (6/0/0/0)

##### Schizaeaceae

*Schizaea* (5/0/0/0)

#### Salviniales p. 55

##### Marsileaceae

*Marsilea* (24/0/3/0)
*Pilularia* (2/0/0/0)

### Salviniaceae

*Azolla* (3/1/0/0)
*Salvinia* (5/0/0/0)

## Cyatheales p. 59

### Cyatheaceae

*Alsophila* (55/0/18/0)
*Sphaeropteris* (1/0/0/0)

### Dicksoniaceae

*Dicksonia* (2/0/0/0)

## Polypodiales p. 68

### Adiantaceae

*Adiantum* (21/1/1/0)
*Antrophyum* (8/0/1/0)
*Monogramma* (1/0/0/0)
*Vittaria* (13/0/2/0)

### Aspleniaceae

*Asplenium* (175/11/11/0)

### Blechnaceae

*Blechnum* (17/0/4/0)
*Doodia* (1/0/0/0)
*Stenochlaena* (2/0/0/0)
*Woodwardia* (1/0/0/0)

### Cryptogrammaceae

*Coniogramme* (2/0/0/0)

### Davalliaceae

*Davallia* (2/0/0/0)
*Humata* (1/0/0/0)

### Dennstaedtiaceae

*Blotiella* (18/0/0/0)
*Dennstaedtia* (1/0/0/0)
*Histiopteris* (1/0/0/0)
*Hypolepis* (3/0/0/0)
*Microlepia* (4/0/0/0)
*Pteridium* (2/2/0/0)

### Dryopteridaceae

*Arachniodes* (1/1/0/0)
*Bolbitis* (11/0/0/0)
*Ctenitis* (18/0/3/0)
*Cyrtomium* (2/0/0/0)
*Didymochlaena* (1/0/0/0)
*Dryopteris* (39/2/0/0)
*Elaphoglossum* (76/0/2/0)
*Hypodematium* (1/0/0/0)
*Lastreopsis* (10/0/1/0)
*Megalastrum* (5/0/0/0)
*Nothoperanema* (1/0/0/0)
*Polystichum* (23/0/0/0)
*Rumohra* (6/0/0/0)

### Lindsaeaceae

*Lindsaea* (19/0/1/0)
*Lonchitis* (1/0/1/0)
*Odontosoria* (4/0/0/0)

### Lomariopsidaceae

*Lomariopsis* (18/0/0/0)

### Nephrolepidaceae

*Nephrolepis* (7/0/1/0)

### Oleandraceae

*Oleandra* (4/0/0/0)
*Psammiosorus* (1/0/0/0)

### Parkeriaceae

*Acrostichum* (2/0/0/0)
*Ceratopteris* (1/0/0/0)

### Polypodiaceae

*Belvisia* (1/0/0/0)
*Ceradenia* (7/0/0/0)
*Cochlidium* (1/0/0/0)
*Ctenopteris* (2/0/0/0)
*Drynaria* (3/0/0/0)
*Enterosora* (2/0/0/0)
*Grammitis* (16/0/0/0)
*Lellingeria* (11/0/0/0)
*Lepisorus* (3/0/0/0)
*Loxogramme* (4/0/0/0)
*Melpomene* (1/0/0/0)
*Microgramma* (1/0/0/0)
*Microsorum* (7/0/0/0)
*Phlebodium* (1/0/0/0)
*Platycerium* (7/0/0/0)
*Pleopeltis* (1/1/0/0)
×*Pleopodium* (1/0/0/0)
*Polypodium* (3/0/0/0)
*Pyrrosia* (7/0/1/0)
*Terpsichore* (2/0/0/0)
*Zygophlebia* (9/0/0/0)

### Pteridaceae

*Actiniopteris* (5/0/1/0)
*Anogramma* (2/0/0/0)
*Eriosorus* (1/0/0/0)
*Pteris* (55/2/3/1)
*Pityrogramma* (5/0/2/0)
*Onychium* (1/0/0/0)
*Ochropteris* (2/0/0/0)

### Saccolomataceae

*Saccoloma* (1/0/0/0)

### Sinopteridaceae

*Aleuritopteris* (2/0/0/0)
*Cheilanthes* (47/1/5/0)
*Cosentinia* (1/0/0/0)
*Doryopteris* (8/0/1/0)
*Paraceterach* (1/0/0/0)
*Pellaea* (16/0/5/0)
*Trachypteris* (1/0/0/0)

### Tectariaceae

*Arthropteris* (6/0/0/0)
*Heterogonium* (1/0/0/0)
*Tectaria* (21/0/0/0)
*Triplophyllum* (18/0/3/0)

### Thelypteridaceae

*Amauropelta* (9/0/2/0)
*Amblovenatum* (2/0/0/0)
*Ampelopteris* (1/0/0/0)
×*Chrismatopteris* (1/0/0/0)
*Christella* (19/0/0/0)
*Cyclosorus* (5/0/0/0)
*Macrothelypteris* (2/0/0/0)
*Menisorus* (1/0/0/0)
*Metathelypteris* (2/1/0/0)
*Pneumatopteris* (11/0/0/0)
*Pseudocyclosorus* (3/0/0/0)
*Pseudophegopteris* (4/0/0/0)
*Sphaerostephanos* (3/3/0/0)
*Stegnogramma* (1/0/0/0)
*Thelypteris* (2/0/0/0)

### Woodsiaceae

*Athyrium* (16/0/0/0)
*Cystopteris* (2/3/0/0)
*Deparia* (5/0/0/0)
*Diplazium* (17/0/0/0)
*Gymnocarpium* (1/0/0/0)
*Woodsia* (2/0/0/0)

## LYCOPODIOPHYTA *D.H.Scott*, Studies in fossil botany, edn 2: 616, 617 (1909), as '*Lycopsida*'

## LYCOPODIOPSIDA *Bartl.*, Ordines naturales plantarum: 14 (19 Sep. 1830)

## ISOETALES *Prantl*, Lehrbuch der Botanik: 116, 125 (20 Apr. 1874), as '*Isoëteae*'

### ISOETACEAE

**Isoetaceae** *Dumort.*, Analyse des familles des plantes: 67 (Oct. 1829), as '*Isoetineae*'. Type: *Isoetes* L.

#### ISOETES

**Isoetes** *L.*, Species plantarum 2: 1100 (1 May 1753). Lectotype: *Isoetes lacustris* L.

**Isoetes abyssinica** *Chiov*. in Atti della Società dei Naturalisti & Matematici di Modena, ser. 6, 64: 45, 46, fig. spores only (1933).
Type: Ethiopia, "Amhara to Dembia". 'Valle Cococc sopra Gondar, pascoli rocciosi aprici lugno rigagnoli asciutti, 3.IX.1909', *E. Chiovenda 1809* (FT, lecto.), designated by Jermy (notula on photograph at BM).

Distribution: Burundi, Ethiopia, Eritrea, Ghana, Kenya.

**Isoetes aequinoctialis** *Welw. ex A.Braun* in Kuhn, Filices africanae: 195 (Oct. 1868).
Type: 'Angola. In pascuis arenosis humidiusculis silvaticis inter Pungo Andogo et Sansamanda non procul a ripa fluminis Cuanza, 1857', *F.M.J. Welwitsch 50* (B20 0107116!, holo.; BM, K000351299!, K000351300!, LISU, P00466571!, iso.).

*Calamaria aequinoctialis* (Welw. ex A.Braun) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. erongensis* Wanntorp in Svensk Botanisk Tidskrift 64: 150 (1970).
Type: 'South West Africa [Namibia], Karibib District, 'Ameib', ± 25 km northwest of Usakos', *H. Wanntorp & H.E. Wanntorp 992* (S, holo.; PRE0074327, iso.).

Distribution: Angola, Ghana, Mali, Namibia, South Africa, Tanzania, Zambia, Zimbabwe.

**Isoetes alstonii** *C.F.Reed & Verdc.* in Kirkia 5: 19 (1965).
Type: Southern Rhodesia, Victoria Falls, south bank in front of and under the spray of the main falls, in boggy places, 29/08/1947, *P.J. Greenway & J.P.M. Brenan 8012* (EA, holo.; BM, K000351301!, PRB, PRE0837358, SRGH!, iso.).

Distribution: Ethiopia, Mozambique, Namibia, Tanzania, Zambia, Zimbabwe.

**Isoetes biafrana** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 15, 16 (1956a).
Type: 'Fr. Guinea: dans l'eau de cuvettes sur carapaces latériques, Sériba to Sambailo', *A.A.L. Pitot s.n.* (BM, holo.).

Distribution: Bioko, Cameroon.

**Isoetes capensis** *A.V.Duthie* in Transactions of the Royal Society of South Africa 17: 330, t. 11, fig. 3, t. 12, figs 1, 2 (1929).
Type: Cape Peninsula, temporary vleis, *A.V. Duthie 2001* (NBG0197099-0!, lecto.), designated by Schelpe & Anthony (1986: 23); (BM, K000351305!, PRU, SAM0036184-0!, iso.).

Distribution: South Africa.

**Isoetes durieui** *Bory* in Comptes rendus hebdomadaires des séances de l'Académie des Sciences 18,26: 1166 (1844), as '*durieï*'.
Type: "Algier, 1844", *M.C. Durieu de Maisonneuve s.n.* (P?, holo.; W362624!, iso.).
Note: the Vienna (W) material here designated as isotype bears a label in the hand of A.

Braun. It provides the following information: "*Isoëtes Durieaei* Bory. A. Braun in Exploration scient de l'Algerie. Botanique t. 31. fig. 2. Algier 1844. l. Durieu".

*Calamaria durieui* (Bory) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

Chromosome number: 2n = 55 (Cesca & Peruzzi 2001: 305).

Distribution: Algeria, Tunisia.

**Isoetes eludens** *J.P.Roux, Hopper & Rhian.J.Sm.* in Kew Bulletin, in press.
Type: 'South Africa, Northern Province, Kamieskroon, farm Damsland, 1.5 km SSE of Damsland ruins, 1 km NNW of Blouberg, 3 km NE of Rooiberg summit, in rock pool with *Limosella africana* and *Nostoc* sp., 1 284 m', 11 September 2007, *S. Hopper & R.J. Smith 114* (K, holo.; NBG0209859-0, iso.).

Distribution: South Africa.

See Plate 1A.

**Isoetes giessii** *Launert* in Mitteilungen der Botanischen Staatssammlung München 2: 309 (1957).
Type: 'Südwestafrika, Distr. Gideon: Haribes, zerstren in seichten Wasser, 11/04/1956', *O.H. Volk 12323* (M, holo.; BM, BOL128002!, iso.).

Distribution: Namibia.

**Isoetes histrix** *Durieu ex Bory* in Comptes rendus hebdomadaires des séances de l'Académie des Sciences 18,26: 1167 (1844), as '*hystrix*'.
Type: "Oran, sur les plateaux ras des montagnes et collines (la même que celle de La Calle)", *M.C. Durieu de Maisonneuve s.n.* (P00507729, syn.); "Plateaux et pentes herbeuses des collines au pourtour de la ville. Environs de la Calle, des Plateaux et pentes des collines aux lieux découverts et les plus secs", *M.C. Durieu de Maisonneuve s.n.* (P00507735, P00507736, P00507737, syn.); "Coteaux de la Calle, individus qui s'allongent en croissant comme étiolés à l'ombre sous les cistes et les genêts", *M.C. Durieu de Maisonneuve s.n.* (P00507734, syn.); "Echantillons récoltés sur les coteaux de La Calle en mai 1841, tirés de l'herbier, plantés à Algerie en novembre, cultivés en plaine eau comme l'eut été le I. Setacea, ayant prospéré et desséchés en avril 1842", *M.C. Durieu de Maisonneuve s.n.* (P00507733, syn.).

*Calamaria hystrix* (Durieu ex Bory) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. histrix* Durieu ex Bory f. *loricata* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 617 (1864b).
Type: unknown to current author.

*I. histrix* Durieu ex Bory f. *loricata* A.Braun subf. *nana* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1983: 617 (1864b).
Type: 'Oran', *sine coll. s.n.* (not located).

*I. histrix* Durieu ex Bory f. *nana* (A.Braun) Motelay & Vendryès in Actes de la Societe Linneene de Bordeaux 36: 402 (1883).

*I. histrix* Durieu ex Bory f. *loricata* A.Braun subf. *grandis* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 617 (1864b).
Type: 'Algeria', *sine coll. s.n.* (not located).

*I. histrix* Durieu ex Bory f. *desquamata* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 617 (1864b).
Type: unknown to current author.

*I. histrix* Durieu ex Bory f. *desquamata* A.Braun subf. *longispina* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 618 (1864b).
Type: 'bei La Calle', *sine coll. s.n.* (not located).

*I. histrix* Durieu ex Bory f. *desquamata* A.Braun subf. *brevispina* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 618 (1864b).
Type: unknown to current author.

*I. histrix* Durieu ex Bory f. *loricata* A.Braun subvar. *armata* Trab. in Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).
Type: unknown to current author.

*I. histrix* Durieu ex Bory var. *loricata* A.Braun subvar. *inermis* Trab. in Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).
Type: 'Bône, Tunisie', *sine coll. s.n.* (not located).

*I. histrix* Durieu ex Bory var. *submersa* Trab. in Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).
Type: 'Dans les mares, Réghaïa', *sine coll. s.n.* (not located).

*I. histrix* Durieu ex Bory f. *submersa* (Trab.) Maire in Catalogue des plantes du Maroc 1: 12 (1931).

Chromosome number: 2n = 20 (Cesca & Peruzzi 2001: 305).

Distribution: Algeria, Morocco, Tunisia.

**Isoetes jaegeri** *Pitot* in Mémoires de l'Institut Français d'Afrique Noire 30,1: 58, figs 1–19 (1968).
Type: "Plateau de Touziana, près Banfora en Haute-Volta, 25.IX.63", *P. Jaeger 6582* (P004666538!, holo.).

Distribution: Burkina Faso.

**Isoetes melanotheca** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 16 (1956a).
Type: 'Fr. Guinea: dans la terre sursatyrée entre les flaques d'eau, Sériba ro Sambailo', *A.A.L. Pitot s.n.* (P00466536, P00466537, holo.; BM, iso.).

Distribution: Guinea, Guinea-Bissau.

**Isoetes nigritiana** *A.Braun* in Filices africanae: 196 (Oct. 1868c).
Type: Ad flumen Niger in stagnis, *C. Barter 1020* (K000351294!, holo.).

*Calamaria nigritiana* (A.Braun) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. garnieri* A.Chev. & P.Monnier in Bulletin du Muséum d'Histoire Naturelle, Paris 18,1: 91 (1946).
Type: "Soudan-francais - Environs di Bamoko. Petite mares temporares des roches de Koulouba .... 350 m d'alt. Environs de Bamako, 10 Nov. 1945", *P. Garnier s.n.* (P00064990, holo.; K000351297!, iso.).

Distribution: Nigeria, Sudan.

**Isoetes nigroreticulata** *Verdc.* in Flora of tropical East Africa, Isoetaceae: 2 (2005a).
Type: 'Fort Hall District, Thika, N side of Thika R., E of Nairobi—Murnga road opposite to Horticultural Research Station turn-off', *R.B. Faden & Kabuye 71/550* (K, holo.; EA, iso.).

*I. tenuifolia* sensu Faden in Upland Kenya wild flowers, edn 2: 39 (1994), non Jermy (1971: 118).

Distribution: Kenya.

**Isoetes perrieriana** *Iversen* in Dansk Botanisk Arkiv 7: 200, 201 (1932).
Type: 'Bords d'un lac temporaire, environs d'Antsirabe, 1 500 m d'alt., avril 1928', *H. Perrier de la Bâthie 18486* (BM, holo.; P00466570!, iso.).

Distribution: Madagascar.

**Isoetes pitotii** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 16, 17 (1956a).
Type: 'Fr. Guinea: dans l'eau de cuvettes sur carapaces latériques, Sériba to Sambailo', *A.A.L. Pitot s.n.* (P00466536!, P00466537!, holo.; BM, iso.).

Distribution: Guinea, Sudan.

**Isoetes schweinfurthii** *A.Braun ex Baker* in Journal of Botany, British and Foreign 1880: 108 (1880a).
Type: "Seriba Ghattar in Djur Gebiet, 20 June 1869", *G.A. Schweinfurth 1962* (K000351298!, holo.; B20 0108240!, B20 0108246!, B20 0108247!, BM, FI, P00466567!, P00466568!, P00466569!, iso.).

*Calamaria schweinfurthii* (A.Braun ex Baker) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. rhodesiana* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 17 (1956a).
Type: 'S. Rhodesia: submerged in water storage tank with artificially puddled bottom, pasture substation, Bongola', *O. West 3075* (BM, holo.; K000351302!, SRGH30263, iso.).

*I. kersii* Wanntorp in Svensk Botanisk Tidskrift 64: 146 (1970).
Type: 'South West Africa, Ondangwa-Ruacana falls, ± 8 km west of Eunda', *L.E. Kers 1389* (S, holo.; PRE0074328, iso.).

Distribution: Angola, Central African Republic, Côte d'Ivoire, Ethiopia, Madagascar, Malawi, Morocco, Mozambique, Namibia, Senegal, South Africa, Sudan, Tanzania, Zambia, Zimbabwe.

**Isoetes spinulospora** *Jermy & Schelpe* in Contributions from the Bolus Herbarium 10: 151 (2 Apr. 1982).
Type: Fernando Po (Bioko), Lagoa Biao, *F. Melville 490* (K000351295!, holo.; BM, iso.).

Distribution: Bioko.

**Isoetes stellenbossiensis** *A.V.Duthie* in Transactions of the Royal Society of South Africa 17: 328, 329, t. 2, 3, 7; t. 11, figs 1, 2 (1929).
Type: Stellenbosch Flats, *A.V. Duthie s.n.* (NBG0197289!, lecto.), designated by Schelpe & Anthony (1986: 27); (BM, BOL!, K000351307!, PRE0833812, PRE0833512, PRU, SAM0036183!, isolecto.).

Distribution: South Africa.

**Isoetes stephanseniae** *A.V.Duthie* in Transactions of the Royal Society of South Africa 17: 330 (1929).
Type: "Seasonal swamp, Stellenbosch Flats, Nov. 1927", *A.V. Duthie s.n.* (Stellenbosch University Regional Herbarium 2005), (NBG0197288-0!, lecto.), designated by Schelpe & Anthony (1986: 25); (BM, BOL!, K000351308!, PRE0833811, PRE0833511, PRU, SAM0036182-0!, isolecto.).

*I. capensis* A.V.Duthie var. *stephansiniae* (A.V.Duthie) Schelpe & N.C.Anthony in Bothalia 15: 555 (1985a), as '*stephansenii*'.

Distribution: South Africa.

**Isoetes subinermis** *(Durieu) Cesca & Peruzzi*, Flora Mediterranea 11: 308 (2001).

*I. histrix* Durieu ex Bory var. *subinermis* Durieu in Bulletin de la Société Botanique de France 8: 164 (1861).

*I. histrix* Durieu ex Bory f. *desquamata* A.Braun subf. *subinermis* (Durieu) A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 618 (1864b).

Chromosome number: 2n = 22 (Cesca & Peruzzi 2001: 305).

Distribution: Algeria.

**Isoetes tenuifolia** *Jermy* in Botanical Journal of the Linnean Society 64,2: 118 (Apr. 1971).
Type: 'In campo paludino 1.6 km ad septentriones Nungua Farm, Accra Plains, Ghana', *J.B. Hall 3728* (BM, holo.; K000351296!, iso.).

Distribution: Ghana.

**Isoetes toximontana** *L.J.Musselman & J.P.Roux* in Novon 12,4: 504, figs 1, 2 (26 Dec. 2002).
Type: 'South Africa, Northern Cape Province: Gifberg, shallow water along Gifberg road, 1 km S of Oubergpad, 31°47'9"S, 18°45'71"E, ± 565 m, 20 Sept. 2001', *L.J. Musselman & E.R. Musselman 2001–35* (NBG0197290-0!, holo.; MO, iso.).

Distribution: South Africa.

**Isoetes transvaalensis** *Jermy & Schelpe* in Contributions from the Bolus Herbarium 10: 150 (2 Apr. 1982).
Type: Transvaal, Blaauwberg, shallow pools in kloof near summit, 26/04/1961, *H.P. van der Schijff 5463* (BM, holo.; BOL128003!, PRU, iso.).

Distribution: Lesotho, South Africa.

**Isoetes velata** *A.Braun* in Exploration scientifique de l'Algérie 1,13: t. 37, fig. 1 (1849).
Type: Not located.

*I. velata* A.Braun var. *typica* Fiori & Paol., Flora analitica d'Italia 1,1: 25 (Dec. 1896).

*I. velata* A.Braun subsp. *typica* (Fiori & Paol.) Maire & Weiller in Maire in Encyclopédie Biologique 33: 91 (1952).

Distribution: Algeria, Libya, Morocco, Tunisia.

**Isoetes velata** *A.Braun* subsp. **adspersa** *(A.Braun) Batt. & Trab.*, Flore analytique et synoptique de l'Algérie et de la Tunisie: 407, fig. 50 (1905).

*I. adspersa* A.Braun in Exploration scientifique de l'Algérie 1,13: t. 37, fig. 3 (1849).
Type: "Oran 1844", *M.C. Durieu de Maisonneuve s.n.* (W362648!, iso.).
Note: the collection here referred to as isotype bears a label in the hand of A. Braun giving the reference "in Expl. scient. d'Algerie Botanique t. 37. f. 3. Oran 1844. leg. Durieu".

*I. setacea* (Bosc.) Delile var. *peyrremondii* Bory in Comptes rendus hebdomadaires des séances de l'Académie des Sciences 18,26: 1165 (1844).
Type: 'au bord des flaques d'eau des champs de la plaine d'Oran', *M.C. Durieu de Maisonneuve s.n.* (not located).

*I. velata* A.Braun var. *peyrremondii* (Bory) Franch. f. *submersa* Glück in Pascher, Die Süsswasser-Flora 15: 17 (May–Jun. 1936), as '*perrymondii*'.
Type: unknown to current author.

*I. velata* A.Braun var. *peyrremondii* (Bory) Franch. f. *terrestris* Glück in Pascher, Die Süsswasser-Flora 15: 17 (May–Jun. 1936), as '*perrymondii*'.
Type: unknown to current author.

Distribution: Algeria, Morocco, Tunisia.

**Isoetes velata** *A.Braun* subsp. **dubia** *(Gennari) Batt. & Trab.*, Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).

*I. dubia* Gennari in Commentario della Società Crittogamologia Italiana 1,2: 104 (Feb. 1861).
Type: unknown to current author.

*Calamaria dubia* (Gennari) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

Distribution: Algeria, Tunisia.

**Isoetes velata** *A.Braun* subsp. **longissima** *(Bory & Durieu) Greuter & Burdet* in Willdenowia 14,1: 37 (31 July 1984).

*I. longissima* Bory & Durieu in Bory, Comptes rendus hebdomadaires des séances de l'Académie des Sciences 18,26: 1165 (1844).
Type: "Algerie. Eaux profondes de La Calle", *M.C. Durieu de Maisonneuve s.n.* (P00466541, syn.); "Mares des bois au pourtour du lac Houbéira, canton de La Calle", *M.C. Durieu de Maisonneuve s.n.* (B20 0096539, B20 0096540, B20 0096541; B20 0096542, P00466539!, P00466540!, syn.); "La Calle, fond d'une mare dans les forêts près du lac Houbéira", *M.C. Durieu de Maisonneuve s.n.* (P00466542!, syn.).

*I. velata* A.Braun f. *longissima* (Bory & Durieu) A.Braun in Exploration scientifique de l'Algérie 1,13: t. 37, fig. 2 (1849).

*Calamaria longissima* (Bory & Durieu) Kuntze in Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. velata* A.Braun infrasp. *intermedia* Trab. & Batt. in Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).
Type: Morocco. 'In lacuna oropedii calcarei Atlantis Medii prope castellum Ito', *R. Maire & L. Emberger s.n.* (MPU002740, holo.).

*I. velata* A.Braun var. *intermedia* Trab. in J.A. Battandier & L.C. Trabut, Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).
Type: Algeria, 'Bousfer', unknown to the current author.

*I. velata* A.Braun subsp. *intermedia* (Trab.) Maire & Weiller in Encyclopédie Biologique 33: 89 (1952).

*I. velata* A.Braun subsp. *intermedia* (Trab.) Maire & Weiller f. *immaculata* Maire, Encyclopédie Biologique 33: 90 (1952).
Type: Morocco. 'In lacuna oropedii calcarei Atlantis Medii prope castellum Ito', *R. Maire & L. Emberger s.n.* (MPU002740, holo.).

*I. velata* A.Braun var. *brevifolia* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 605, 606 (1864b).
Type: "La Calle (Algerie). Praisies humides, 24 Juin 1844", *sine coll. s.n.* (B20 0096533, B20 0096535, iso.).

*I. velata* A.Braun subsp. *typica* (Fiori & Paol.) Maire & Weiller f. *brevifolia* (A.Braun) Maire & Weiller in Encyclopédie Biologique 33: 90 (1952).

*I. velata* A.Braun subsp. *typica* (Fiori & Paol.) Maire & Weiller f. *algerica* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 605 (1864b).
Type: unknown to current author.

Distribution: Algeria, Morocco.

**Isoetes velata** *A.Braun* subsp. **perralderiana** *(Milde) Batt. & Trab.*, Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).

*I. perralderiana* Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 282 (1 Oct.–5 Nov. 1867).
Type: 'In Algeria. Sub aqua crescens in stagnulo aquis a fonte Aën Sumta fluentibus semper repleta, infra fauces Akfadou, ad occidentam urbis Bougie Kayliae orientalis, circiter 1 250 metr. alt. 1. August. 1961', *E.S.-C. Cosson s.n.* (P00466543!, holo.; B20 0108215!, iso.).

*Calamaria perralderiana* (Milde) Kuntze in Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. velata* A.Braun var. *perralderiana* (Milde) N.Pfeiff. in Annals of the Missouri Botanical Garden 9,2: 121 (Apr. 1922).

Distribution: Algeria, Tunisia.

**Isoetes velata** *A.Braun* subsp. **tegulensis** *Batt. & Trab.*, Flore analytique et synoptique de l'Algérie et de la Tunisie: 407 (1905).

*I. tiguliana* Gennari in Commentario della Società Crittogamologia Italiana 1,2: 106 (Feb. 1861), synon. subst.

*I. tegulensis* Gennari in Commentario della Società Crittogamologia Italiana 1,2: 106 (Sep. 1861), nom. illeg.

*I. velata* A.Braun var. *tegulensis* (Gennari) Fiori in Fiori & Paol., Flora analitica d'Italia 1,1: 25 (Dec. 1896), nom. illeg.

Distribution: Algeria, Libya, Morocco, Tunisia.

**Isoetes welwitschii** *A.Braun* in Filices africanae: 196, 197 (Oct. 1868c).
Type: 'In Angolae districto Huíla, in pascuis breve herbidis editissimis arenoso-humosis de Empalanca in Morro de Lopollo in 5000 ped. circa 1860', *F.M.J. Welwitsch 166* (B20 0108478, holo.; BM, K000351303!, K000351304!, LISU, P00466565!, iso.).

*Calamaria welwitschii* (A.Braun) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

*I. natalensis* Baker, Handbook of the fern-allies: 132 (Jul. 1887d).
Type: "Griffinshill (Estcourt)", *A. Rehmann 7296* (K000351306!, holo.; BM, P00466566!, iso.).

*C. natalensis* (Baker) Kuntze, Revisio generum plantarum 2: 828 (5 Nov. 1891).

Distribution: Angola, Botswana, Central African Republic, Eritrea, Ethiopia, Ghana, Kenya, Madagascar, Nigeria, South Africa, Sudan, Tanzania, Zambia.

**Isoetes wormaldii** *Sim* in Transactions of the South African Philosophical Society 16: 299, 300, t. 5 (1906).
Type: in ponds around East London, and in the Victoria Park, East London, 11/1893,

*T.R. Sim T.R. 1567* (SAM0036185!, lecto.), designated by Schelpe & Anthony (1986: 27); (BM, BOL128004!, K!, PRE0837364-0, PRE0837365-0, PRE0837669-0, PRE0837670-0, PRE0839791-0, isolecto.).

Distribution: South Africa.

## LYCOPODIALES *Dumort.*, Analyse des familles des plantes: 67 (1829), as '*Lycopodarieae*'

### LYCOPODIACEAE

**Lycopodiaceae** *P.Beauv. ex Mirb.* in Histoire naturelle des végétaux, classés par familles 4: 293 (21 Nov. 1802b), as '*Lycopodia*'. Type: *Lycopodium* L.

*Urostachyaceae* Rothm. in Feddes Repertorium 54,1: 58 (30 Sep. 1944), nom. illeg. Type: *Urostachys* Herter (= *Huperzia* Bernh.).
Note: Urostachyaceae is a replaced synonym of *Huperziaceae* Rothm. (Pichi Sermolli 1970b: 263, 264).

*Huperziaceae* Rothm. in Feddes Repertorium 66,3: 236 (15 Nov. 1962). Lectotype: *Huperzia* Bernh. (Pichi Sermolli 1970b: 244).
Note: the family name Huperziaceae is discussed by Pichi Sermolli (1970b: 244). It is often treated as a family distinct from the Lycopodiaceae (Tardieu-Blot 1971: 15).

#### HUPERZIA

**Huperzia** *Bernh.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 126 (1801). Lectotype: *Huperzia selago* (L.) Mart. ex Schrank & Mart.; *Lycopodium selago* L.

*Plananthus* P.Beauv. ex Mirb. in Histoire naturelle des végétaux, classés par familles 3: 476, 477 (1802a); 4: 310, 311, 476 (21 Nov. 1802b). Lectotype: *Lycopodium selago* L., designated by Pichi Sermolli (1971: 143, 144).

*Lycopodium* L. subgen. *Selago* Baker, Handbook of fern-allies 8 (Jul. 1887d). Type: *Lycopodium selago* L., now *Huperzia selago* (L.) Mart. ex Schrank & Mart.

*Lycopodium* L. subgen. *Urostachya* E.Pritz. in Die natürlichen Pflanzenfamilien 1,4: 592 (1902), nom. superfl. for *Lycopodium* L. subgen. *Selago* Baker and with the same type.

*Lycopodium* L. sect. *Selaginurus* Herter in Botanische Jahrbücher 43, Beiblatt 98: 30 (1909a), nom. superfl. for *Lycopodium* L. sect. *Selago* Dill. ex E.Pritz. Type: *Lycopodium selago* L., now *Huperzia selago* (L.) Mart. ex Schrank & Mart.

*Urostachys* Herter in Beihefte zum Botanischen Centralblatt 39,2: 249 (1922), nom. superfl. for *Huperzia* Bernh. and with the same type.

*Urostachys* Herter sect. *Selaginurus* (Herter) Herter in Botanisches Archiv 3: 13 (1923a).

*Phlegmariurus* Herter ex Holub in Preslia 36,1: 17, 21 (1964). Type: *Lycopodium phlegmaria* L. (now *Huperzia phlegmaria* (L.) Rothm.).

*Lycopodium* L. sect. *Phlegmariurus* Herter in Botanische Jahrbücher 43,1/2, Beiblatt 98: 30 (1909a), nom. superfl. for sect. *Phlegmaria* Baker ex E.Pritz. Type: *Lycopodium phlegmaria* L.

*Lycopodium* L. sect. *Phlegmaria* Baker ex E.Pritz. in Die natürlichen Pflanzenfamilien 1,4: 599 (1902). Type: *Lycopodium phlegmaria* L., now *Huperzia phlegmaria* (L.) Rothm.

**Huperzia afromontana** *Pic.Serm.* in Webbia 27,2: 394, fig. 2, t. A–C [1972] (28 Feb. 1973a).
Type: 'Burundi, Bururi, Mont Bururi, 2170 m, forêt secondaire, Lycopode épiphyte pendant, 0.7 m, fertile. 9.IV.1969.' *J. Lewalle 3468* (FI-PS *24932*, holo.).

*Lycopodium afromontanum* (Pic.Serm.) Kornaś in Zeszyty naukowe Uniwersitetu Jagiellónskiego 25: 33, fig. 62A (1993).

Distribution: Burundi, Rwanda, Tanzania, Uganda.

**Huperzia axillaris** *(Roxb.) Rothm.* in Feddes Repertorium 54,1: 60 (30 Sep. 1944).

*Lycopodium axillare* Roxb. in Tracts relative to the island of St Helena: 312 (Jan. 1816).
Type: 'St Helena, 11 August 1807, in the grass on Diana's Peak', *W.J. Burchell 197* (K, neo.), designated by Cronk (1995: 96).

*Urostachys axillaris* (Roxb.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 82, Abb. 15 (Oct. 1939).

Distribution: St Helena.

**Huperzia bampsiana** *Pic.Serm.* in Bulletin du Jardin Botanique National de Belgique 55,1, 2: 193, 194, fig. 10 (1985a).
Type: 'Rwanda, Préf. Ruhengeri, selle entre le Karisimbi et le Visoke (1°29'S-29°29'E), 3 000 m, forêt-prairie à vieux Hagenia, épiphyte pendant sur *Hagenia*, 20.I.1972', *P. Bamps 2964* (LG, holo.; BR, P00462093!, FI-PS, iso.).

*Lycopodium bampsianum* (Pic.Serm.) Kornaś in Zeszyty naukowe Uniwersitetu Jagiellónskiego 25: 33, fig. 99B (1993).

Distribution: Rwanda.

**Huperzia brachystachya** *(Baker) Pic.Serm.* in Webbia 23,1: 162 (20 Nov. 1968a).

*Lycopodium dacrydioides* Baker var. *brachystachys* Baker, Handbook of the fern-allies: 18 (Jul. 1887d).
Type: 'Cameroons', *G. Mann 2041* (K000351201!, holo.).

*Urostachys brachystachys* (Baker) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 189 (Oct. 1939).

*L. brachystachys* (Baker) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 19 (1956a), non *L. brachystachyum* Hook. & Grev. ex Hook. & Grev. (1833: 107).

*L. passerinoides* sensu Kuhn, Filices africanae: 185 (Oct. 1868), non Kunth (1816: 41).

Distribution: Bioko, Cameroon, Côté d'Ivoire, Guinea, Liberia, Nigeria, Sierra Leone.

**Huperzia cavifolia** *(C.Chr.) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Lycopodium cavifolium* C.Chr. in Dansk Botanisk Arkiv 7: 190, pl. 76, figs 6–10 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo, Silve-à-lichens, vers 1 700 m, 1 Mai 1909', *H. Perrier de la Bâthie 8273* (BM, holo.; BONN-Nessel 457 p.p., K000351220!, P00466639!, iso.).

*Urostachys cavifolius* (C.Chr.) Herter in Estudios Botanicos en la region Urugaya 20: 55 (1949d).

*U. smithianus* Nessel in Feddes Repertorium 36,12/15: 185, t. 174 (5 Nov. 1934).
Type: Ex herb. Webb, Mauritius, 1886, *sine coll. s.n.* (BONN-Nessel 457, p.p.).

*H. smithiana* (Nessel) Holub in Folia Geobotanica et Phytotaxonomica 20,1: 76 (1985).

Distribution: Madagascar.

**Huperzia curiosa** *(Herter) Tardieu* in Adansonia, sér. 2, 10,1: 18, pl. 1, figs 1–4 (1970).

*Urostachys curiosus* Herter in Notulae Systematicae (Paris) 15,3: 355, 356 (Dec. 1958).
Type: 'Madagascar—Vallée de la Lokoho (Nord-Est), mont Beondroka, au nord de Maroambihy. Sylve à Lichens sur gneiss et quartzite. Alt. 1 000–1 450 m, 17–22 mars 1949', *H. Humbert 23478* (P00466637!, holo.; P00226973!, P00466638!, iso.).

Distribution: Madagascar.

**Huperzia dacrydioides** *(Baker) Pic.Serm.* in Webbia 23,1: 162 (20 Nov. 1968a).

*Lycopodium dacrydioides* Baker, Handbook of the fern-allies: 17, 18 (Jul. 1887d).
Type: "Natal", *J. Buchanan s.n.* (K000351221!, lecto.), designated by Pichi Sermolli (1968a: 162); "Camer. Mount. ..... Elevas. 7000 ft.", *G. Mann 1408* (K000351202, syn.).

*Urostachys dacrydioides* (Baker) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 188 (Oct. 1939).

*L. mildbraedii* Herter in Hedwigia 49: 90, 91 (1909b).
Type: 'Trop.-Afrika: Kamerun: Grosser Kamerunberg, Mannsquelle. Bergwald an seiner obersten Grenze, ± 2 200 m über dem Meer', *G.W.J. Mildbraed 3449* (B20 0113282!, holo.; BM, photo.).

*U. mildbraedii* (Herter) Nessel, Die Bärlappgewächse (Lycopodiaceae): 188 (Oct. 1939).

*H. mildbraedii* (Herter) Pic.Serm. in Webbia 23,1: 163 (20 Nov. 1968a).

*U. dacrydioides* (Baker) Herter ex Nessel var. *minor* Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 189 (Oct. 1939), nom. nud.

*U. dacrydioides* (Baker) Herter ex Nessel var. *minor* Herter ex Nessel in Revista Sudamericana de botánica 6,5, 6: 165, t. XI, fig. 58 (1940a).
Type: 'Kamerun: Urwald westlich Buea, Schlucht am kleinen Bache, 1100 Fuss, 1908', *J. Greven 1950* (not located).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl., DRC, Ethiopia, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Príncipe, Rwanda, Sierra Leone, São Tomé, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Huperzia dura** *Pic.Serm.* in Webbia 27,2: 392, fig. 1, t. A–D [1972] (28 Feb. 1973a).
Type: 'Kenya, K 7, Taita District: Maunga Hills, S of Maunga Station on Nairobi-Mombasa Road, 3°38'S, 38°44'E, 900–1 000 m. Dry evergreen mist forest, 31.V.1970', *R.B. Faden 70/180*, err. as *'70/108'* (FI-PS *25880*; EA, K000351206!, iso.).

*H. dacrydioides* (Baker) Pic.Serm. subsp. *dura* (Pic.Serm.) Verdc. in Flora of tropical East Africa, Lycopodiaceae: 6 (2005b).

Distribution: Kenya, Tanzania.

**Huperzia ellenbeckii** *(Nessel) Pic.Serm.* in Webbia 23,1: 162 (20 Nov. 1968a).

*Urostachys ellenbeckii* Nessel in Feddes Repertorium 36,12, 15: 188, t. 175 (1934).
Type: Sine loc., *H. Ellenbeck s.n.* (BONN, lecto.), designated by Pichi Sermolli (1968a: 162, 163).

Distribution: Ethiopia.

**Huperzia epiceifolium** *(Desv. ex Poir.) Trevis.* in Atti della Società Italiana di Scienze Naturali 17: 248 [1874] (1875), as '*epiceaefolia*'.

*Lycopodium epiceifolium* Desv. ex Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 559 (3 Sep. 1814), as '*epiceaefolium*'.
Type: 'Insula Mauritii', *sine coll. s.n.* (P00466614!, holo.).

*Urostachys epiceifolius* (Desv. ex Poir.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 202 (Oct. 1939), as '*epicaefolius*'.

*U. epiceifolius* (Desv.) Herter ex Nessel f. *acutifolius* (Desv. ex Poir.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 202 (Oct. 1939).

Distribution: Mauritius.

**Huperzia funicula** *(Herter) J.P.Roux*, comb. nov.

*Urostachys funiculus* Herter in Revista Sudamericana de botánica 8: 22, 23 (1949a), non *Lycopodium funiculosum* Lam. (1792: 649).
Type: "Montagnes a l'Ouest du Lac Kivu (Congo Belge). Forêt, à'l W de Tshibinda", *H. Humbert 7488* (P00466636!, holo.).

Distribution: DRC.

**Huperzia gagnepainiana** *(Herter) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Urostachys gagnepainianus* Herter in Revista Sudamericana de botánica 8: 23 (1949a).
Type: 'Madagascar. Centre: Massif de Tsaratanana, vers 2 000 m. Epiphyte, sylve à lichens, I.1923', *H. Perrier de la Bâthie 15405* (P00226738!, lecto.), designated by Tardieu-Blot (1970: 20); 'Madagascar. Massif du Tsaratanana', *H. Perrier de la Bâthie 16243* (P00226739, syn.).

Distribution: Madagascar.

**Huperzia gnidioides** *(L.f.) Trevis.* in Atti della Società Italiana di Scienze Naturali 17: 247 [1874] (1875).

*Lycopodium gnidioides* L.f., Supplementum plantarum: 448 (Apr. 1782).
Type: 'Habitat in Isle de France', *P. Sonnerat per A. Thouin s.n.* (P-JU 638A, ?iso.).

*Plananthus gnidioides* (L.f.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 110 (10 Jan. 1805).

*Urostachys gnidioides* (L.f.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 187 (Oct. 1939).

*Lycopodium funiculosum* Lam. in Encyclopedie méthodique, Botanique 3,2: 649 (13 Feb. 1792).
Type: "Cap. b. esp.", *sine coll s.n.* (P-LA!, holo.).

*Lepidotis funiculosa* (Lam.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).

*Lycopodium ambiguum* Schrad. in Göttingische gelehrte Anzeigen 1818: 920 (1818).
Type: "Prom. bon. spei", *C.H.F. Hesse s.n.* (LE, holo.).

*Lycopodium flagelliforme* Schrad. in Göttingische gelehrte Anzeigen 1818: 920 (1818).
Type: 'Prom. bon. spei', *C.H.F. Hesse s.n.* (LE, holo.; GOET, iso.).

*Lycopodium pinifolium* Kaulf., Enumeratio filicum: 7 (Oct. 1824).
Type: 'Habitat in Promontorio bonae spei', *sine coll. s.n.* (?PH, holo.).

*Lycopodium gnidioides* L.f. var. *pinifolia* (Kaulf.) Pappe & Rawson, Synopsis filicum Africae australis: 49 (Jan.–Jul. 1858).

*Lycopodium strictum* Baker in Journal of Botany, British and Foreign 11: 271 (Sep. 1882a).
Type: "Central Madagascar", *G.W. Parker s.n.* (K000351216!, holo.).

*Lycopodium gnidioides* L.f. var. *strictum* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 190 (Oct. 1932b).

*H. stricta* (Baker) Tardieu in Adansonia, sér. 2, 10,1: 20 (1970).

Distribution: Burundi, Comoro Isl., DRC, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, Seychelles, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Huperzia hildebrandtii** *(Herter) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Urostachys hildebrandtii* (Herter) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 28, t. 4, fig. 3 (Oct. 1939).

Distribution: Madagascar.

**Huperzia holstii** *(Hieron.) Pic.Serm.* in Webbia 23,1: 163 (20 Nov. 1968a).

*Lycopodium holstii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 90 (Jun. 1895).
Type: 'Usambara, Bumba bei Maschëua, um 1200 m', *C.H.E.W. Holst 8814* (B20 112586!, holo.; BM, fragm., K000351205!, P00466630!, iso.).

*Urostachys holstii* (Hieron.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 202 (Oct. 1939).

Distribution: Kenya, Tanzania.

**Huperzia humbertii-henrici** *(Herter) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Urostachys humbertii-henrici* Herter in Revista Sudamericana de Botánica 8: 23, 24 (1949a), non *U. humbertii* Nessel (1940b: 170).
Type: 'Madagascar. Massif de l'Ivakoany, pentes orientales du massif, alt. 1 250–1 550 m, XI-XII.1933', *H. Humbert 12224* (P00466629, lecto.), designated by Tardieu-Blot (1971: 29); (P00466627!, P00466628!, isolecto.).

Distribution: Madagascar.

**Huperzia insularis** *(Carmich.) Rothm.* in Feddes Repertorium 54,1: 60 (30 Sep. 1944).

*Lycopodium insulare* Carmich. in Transactions of the Linnean Society of London, Botany 12: 509 (1818).
Type: cliffs of Tristan d'Acunha. 'Grows on the sides of the ravines', *D. Carmichael s.n.* (K, lecto.), designated by Nessel (1939: 81); (BM, BONN, Nessel 136 p.p., iso.).

*Urostachys insularis* (Carmich.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 81 (Oct. 1939).

*L. selago* L. var. *hessei* Herter in Botanische Jahrbücher 43,1, 2, Beiblatt 98: 25 (1909a), nom. nud.

*U. selago* (L.) Herter var. *hessei* Nessel, Die Bärlappgewächse (Lycopodiaceae): 40 (Oct. 1939).
Type: 'Insel Tristan da Cunha', *sine coll. s.n.* (P, syn.); 'Falkland-Inseln: Martinez Fjord', *H. Ellingson 1904* (not located).

*L. selago* L. var. *saururus* sensu Hook.f., Flora antarctica 2,22: 394 (1 Jan. 1847a).

*L. taxifolium* sensu Melliss, St Helena: 357 (Mar.–Apr. 1875), non Sw. (1788: 138).

*L. saururus* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,1: 91 (Sep.–Dec. 1885a); 1,3,2: 162 [1884] (Mar.–Jun. 1885b).

Distribution: Amsterdam Isl., Ascension Isl., Crozet Isl., Gough Isl., Kerguelen Isl., Marion Isl., St Helena, Tristan da Cunha.

See Plate 1B.

**Huperzia jaegeri** *(Herter) Pic.Serm.* in Webbia 23,1: 163 (20 Nov. 1968a).

*Urostachys jaegeri* Herter in Revista Sudamericana de botánica 8: 24, 25 (1949a).
Type: 'Sierra Leone. Mt. Loma: Région Centrale. Epiphyte dans un ravin boisé et encaissé qui escalade la face Nord de la falaise abrute du Fuen-Koli', *P. Jaeger 1522* (P00466622!, holo.).

*Lycopodium jaegeri* (Herter) Alston in Mémoires de l'Institut Français d'Afrique Noire 50: 21 (1957a).

Distribution: Cameroon, Guinea, Liberia, Sierra Leone.

**Huperzia megastachya** *(Baker) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Lycopodium megastachyum* Baker in Journal of the Linnean Society, Botany 21,137: 454, 455 (29 Apr. 1885b).
Type: "Madagascar", *R. Baron 2840* (K000351218!, K000351219!, holo.; BM, iso.).

*Urostachys megastachya* (Baker) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 210 (Oct. 1939).

Distribution: Madagascar.

**Huperzia obtusifolia** *(P.Beauv.) Rothm.* in Feddes Repertorium 54,1: 61 (30 Sep. 1944).

*Lepidotis obtusifolia* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 109 (10 Jan. 1805).
Type: 'l'Ile-de-France', *J.B.G.M. Bory de St.-Vincent s.n.* (P00466623!, holo.).

*Lycopodium obtusifolium* (P.Beauv.) Sw., Synopsis filicum: 177 (Mar.–Apr. 1806b).

*Urostachys obtusifolius* (P.Beauv.) Nessel, Die Bärlappgewächse (Lycopodiaceae): 190 (Oct. 1939).

Distribution: Madagascar, Réunion.

**Huperzia ophioglossoides** *(Lam.) Rothm.* in Feddes Repertorium 54,1: 62 (30 Sep. 1944).

*Lycopodium ophioglossoides* Lam. in Encyclopedie méthodique, Botanique 3,2: 646, 647 (13 Feb. 1792).
Type: 'l'Ile de France', *P. Commerson s.n.* (P-LA!, holo.).

*Urostachys ophioglossoides* (Lam.) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 238 (Oct. 1939).

*Lepidotis longifolia* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 109 (10 Jan. 1805).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (P-JU 642, holo.; B-W 19343!, iso.).

*Lycopodium longifolium* (P.Beauv.) Sw., Synopsis filicum: 177 (Mar.–Apr. 1806b).
Note: Øllgard (1989: 55, 111) suggests that the species belongs to *Huperzia*, but did not make the combination in that genus.

*U. phlegmaria* (L.) Herter var. *densifolius* (Spring) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 221 (Oct. 1939).

Distribution: Annobon, Bioko, Burundi, Cameroon, Comoro Isl., Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, Seychelles, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Huperzia pachyphylla** *(Kuhn ex Herter) Holub* in Folia Geobotanica et Phytotaxonomica 20,1: 75 (1985).

*Lycopodium pachyphyllum* Kuhn ex Herter in Botanische Jahrbücher 43,1, 2, Beiblatt 98: 51 (23 Feb. 1909a).
Type: 'Madagascar: Süd-Belitséo, Wald von Ankafina, 1881', *J.M. Hildebrandt 4141* (B20 0085521, holo.; B20 0085522, B20 0085523, BM, K000351217, P00466624!, P00466625!, P00466626, iso.).

*Urostachys pachyphyllus* (Kuhn ex Herter) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 190, fig. 49 (Oct. 1939).

*L. obtusifolium* (P.Beauv.) Sw. var. *pachyphyllum* (Kuhn ex Herter) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 69 (Feb. 1932a).

Distribution: Madagascar.

**Huperzia pecten** *(Baker) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Lycopodium pecten* Baker in Journal of the Linnean Society, Botany 15: 421, 422 (1876b).
Type: "Antanarivo Madagascar", *W. Pool s.n.* (K000351214!, holo).

*Urostachys pecten* (Baker) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 67, fig. 10 (Oct. 1939).

Distribution: Madagascar.

**Huperzia perrieriana** *Tardieu* in Adansonia, sér. 2, 10,1: 20, pl. 2, figs 1–4 (1970).
Type: Madagascar. 'Massif du Manongarivo', *H. Perrier de la Bâthie 8294* (P00226740!, holo.).

Distribution: Madagascar.

**Huperzia phlegmaria** *(L.) Rothm.* in Feddes Repertorium 54,1: 62 (30 Sep. 1944).

*Lycopodium phlegmaria* L., Species plantarum 2: 1101 (1 May 1753).
Provenance: 'Habitat in Malabaria, Zeylona'. Type: Not designated. Several collateral references cited. Dillenius, Historia muscorum: t. 61, figs 5A, B, C (1741), is eligible as lectotype.

*Lepidotis phlegmaria* (L.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 109 (10 Jan. 1805).

*Urostachys phlegmaria* (L.) Herter in Botanisches Archiv 3: 17 (1923a).

*Phlegmariurus phlegmaria* (L.) T.Sen & U.Sen in Fern Gazette 11,6: 421 (15 Jan. 1979).

Distribution: Bioko, Cameroon, Comoro Isl., Equatorial Guinea, Ghana, Guinea, Gabon, Liberia, Malawi, Mauritius, Príncipe, Rodrigues Isl., São Tomé, Sierra Leone, Tanzania, Uganda.

**Huperzia phlegmaria** *(L.) Rothm.* var. **tardieuae** *(Herter) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970).

*Urostachys tardieuae* Herter in Notulae Systematicae (Paris) 15,3: 355 (1958).
Type: 'Madagascar, 13.11.1881', *sine coll. s.n.* (P00466621!, holo.).

*H. tardieuae* (Herter) Holub in Folia Geobotanica et Phytotaxonomica 26,1: 93 (1991).

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

**Huperzia pichiana** *Tardieu* in Adansonia, sér. 2, 10,1: 21, pl. 2, figs 5–8 (1970).
Type: Madagascar. 'Montagne d'Ambre, Forêt à mousses, vers 1 200 m', *H. Perrier de la Bâthie 17773* (P00466619!, P00466620!, holo.; P00226993!, P00466618!, iso.).

Distribution: Madagascar.

**Huperzia rubrica** *(C.Chr.) Tardieu* in Adansonia, sér. 2, 10,1: 18 (1970), nom. nov. for *Lycopodium ophioglossoides* Lam. var. *rubricaule* C.Chr., non *L. rubricaule* Alderw. (1917: 3).

*Lycopodium ophioglossoides* Lam. var. *rubricaule* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 69 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar, Massif d'Andringitra, *H. Humbert 3717* (P00466617!, holo.; BM, iso.).

*Urostachys rubricus* Herter in Revista Sudamericana de Botánica 8: 25 (1949a), nom. nov. for *Lycopodium ophioglossoides* Lam. var. *rubricaule* C.Chr., non *L. rubricaule* Alderw. (1917: 3).

Distribution: Madagascar, Réunion.

**Huperzia saururus** *(Lam.) Trevis.* in Atti della Società Italiana di Scienze Naturali 17: 249 [1874] (1875).

*Lycopodium saururus* Lam. in Encyclopedie méthodique, Botanique 3,2: 653 (13 Feb. 1792).
Type: 'l'Ile de Bourbon', *P. Commerson s.n.* (P-LA!, holo.; P00466616! iso.).

*Plananthus saururus* (Lam.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 110 (10 Jan. 1805).

*Urostachys saururus* (Lam.) Herter in Feddes Repertorium 19,11, 13: 162 (30 Jul. 1923b).

Distribution: Cameroon, Comoro Isl., DRC, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Réunion, Rwanda, South Africa, Tanzania, Uganda, Zimbabwe.

**Huperzia sooiana** *(Lawalrée) Holub* in Folia Geobotanica et Phytotaxonomica 20,1: 77 (1985).

*Phlegmariurus sooianus* Lawalrée in Acta Botanica Academiae Scientiarum Hungaricae 19,1/4: 197, fig. 2 (1973).
Type: Zaire. 'Bekondji-Boenga, territoire de bolomba, palmeraie, épiphyte pendant sur stipe d'Elaies, 1958', *Evrard 3580* (BR, holo.).

Distribution: DRC.

**Huperzia squarrosa** *(G.Forst.) Trevis.* in Atti della Società Italiana di Scienze Naturali 17: 247 [1874] (1875).

*Lycopodium squarrosum* G.Forst., Florulae insularum australium prodromus: 85 (Oct.–Nov. 1786b).
Type: From Otaheiti (Tahiti), *?G. Forster s.n.* (P, holo.).

*Plananthus squarrosus* (G.Forst.) Herter in Botanisches Archiv 3: 14 (1923a).

*L. proliferum* Blume, Encycl. Pl. Jav. 2: 265 (1828).
Type: Montis Gede Javae, *Blume s.n.* (L 908.343.362, holo.; P, iso.).

*H. prolifera* (Blume) Trevis. in Atti della Società Italiana di Scienze Naturali 17: 248 (1874).

*Urostachys squarrosus* (G.Forst.) Herter var. *proliferus* (Blume) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 200 (Oct. 1939).
Note: *H. Pierrier de la Bâthie 8281* (P00046672), listed by Nessel (1939: 200), has been identified as *Selaginella fissidentoides* var. *amphirrhizos* by Stefanović & Rakotondrainibe.

*U. lecomteanus* Nessel, Die Bärlappgewächse (Lycopodiaceae): 205 (Oct. 1939).
Type: 'Madagascar: an Gebirgswänden der Ostküste, 1891', (Herb. Lefraucheaux BONN-Nessel 492, holo.).

*U. squarrosus* (G.Forst.) Herter var. *prolifer* (Blume) Herter ex Nessel f. *madagascariensis* Desv. ex Nessel in Revista Sudamericana de Botánica 6,5/6: 165, 166, t. 12, fig. 60 (1940a).
Type: 'Madagascar', *H. Pierrier de la Bâthie 8276* (P?, holo.); 'Madagascar', *H. Pierrier de la Bâthie 8283* (missing).

*U. madagascariensis* (Desv. ex Nessel) Herter in Revista Sudamericana de Botánica 8: 82 (1949b).
Type: based on *Urostachys squarrosus* (G.Forst.) Herter var. *proliferus* (Blume) Herter ex Nessel f. *madagascariensis* Desv. ex Nessel.

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

**Huperzia staudtii** *(Nessel) Pic.Serm.* in Webbia 23,1: 163 (20 Nov. 1968a).

*Urostachys staudtii* Nessel in Feddes Repertorium 36,12, 15: 189, t. 175 (5 Nov. 1934).
Type: 'Kamerun: Johann-Albrechts-Höhe, 7.XII.1895', *A. Staudt 476* (P, lecto.), designated by Nessel (1939: 230); (BONN, Nessel 556, p.p., iso.); 'Bipinda-Urwadgebiet, in Löchern alter Bäume, die mit Humus gefüllt sind, IV.1910', *J. Greven 298* (?, syn.).

*Lycopodium staudtii* (Nessel) C.D.Adams & Alston in Bulletin of the British Museum (Natural History), Botany 1,6: 183 (Aug. 1955).

*U. strictus* (Baker) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 191, t. 50 (Oct. 1939).

*U. adolfi-friedericii* Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 226 (Oct. 1939), nom. inval. [McNeill *et al.* (2006) Art. 32.1 (d) & Art. 41.3].
Type: 'Deutsch-Ostafrika, Insel Anobon auf Bäumen', *J. Mildbraed 1911* (B20 080201!, syn.); 'Ninagongo: oberer lichter Cornuswald, ganz vereinzelt am Südkrater', *J. Mildbraed 1358* (B20 080202!, syn.); 'Aniovea (Ohiovea)', *G. Mildbraed 1911* (not located); sine loc., *Naumann 1894* (P, syn.); 'Goldküste, IV.1900', *E. Akim s.n.* (not located); 'Central Province Neon Alsoase, 1923', *W.C. Fishlock 83* (K000351200!, syn.).

*U. adolfi-friedericii* Herter ex Nessel in Revista Sudamericana de Botánica 6, 5, 6: 167, excl. fig. (Jun. 1940a).
Type: Ghana, *W.C. Fishlock 83* (K000351200!, holo.).

Distribution: Angola, Cameroon, Central African Republic, Coté d'Ivoire, Gabon, Ghana, Nigeria.

**Huperzia suberecta** *(Lowe) Tardieu* in Adansonia, sér. 2, 10,1: 20 (1970).

*Lycopodium suberectum* Lowe in Transactions of the Cambridge Philosophical Society 4,1: 9 (1831).
Type: 'Hab. in salebrosis fissurisque rupium sylvarum Maderae', *R.T. Lowe s.n.* (K, holo.; P00466577!, P00466578!, iso.).

*Urostachys suberectus* (Lowe) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 42 (Oct. 1939).

*L. selago* L. var. *suberectum* (Lowe) C.Chr. in Dansk Botanisk Arkiv 7: 188 (Oct. 1932b).

*L. selago* L. var. *spinulosum* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 15: 20 (1842).
Type: "In Sylvatis montosis ins. Terceirae", *C. Hochst s.n.* (P00466579!, holo.).

Distribution: Madagascar, Réunion.

**Huperzia tournayana** *(Lawalrée) Holub* in Folia Geobotanica et Phytotaxonomica 20,1: 77 (1985).

*Phlegmariurus tournayanus* Lawalrée in Acta Botanica Academiae Scientiarum Hungaricae 19,1, 4: 197, fig. 2 (1973).
Type: Zaïre. 'Réserve de l'Isalowe, plateau de la Lusambila, alt. 470 m, forêt primitive ombrophile sèche, epiphyte dans la cime d'un énorme *Parinari ealaense* De Wildeman', *Louis 4012* (BR, holo., P, iso.).

Distribution: DRC.

**Huperzia trigona** *(C.Chr.) Tardieu* in Adansonia, sér. 2, 10,1: 20 (1970).

*Lycopodium trigonum* C.Chr. in Dansk Botanisk Arkiv 7: 191, pl. 76, figs 1–5 (Oct. 1932b).
Type: Madagascar. 'Mt. Tsaratanana, Silve-à-lichens, 1 600 m. alt. November 1912', *H. Pierrier de la Bâthie 8270* (P00466613!, holo.; BM, iso.).

*Urostachys trigonus* (C.Chr.) Herter in Estudios Botanicos en la Region Urugaya 20: 87 (1949d).

*U. humbertii* Nessel in Feddes Repertorium 48: 170, t. 48, fig. 3 (1940b).
Type: 'Madagascar; im Quellgebiet des Mangoroflusses, 650 m alt., 7.VIII.1909', *J. Kiese s.n.* (BONN-Nessel 445a p.p., holo.).

Distribution: Madagascar.

**Huperzia verticillata** *(L.f.) Trevis.* in Atti della Società Italiana di Scienze Naturali 17: 248 [1974] (1875).

*Lycopodium verticillatum* L.f., Supplementum plantarum: 448 (Apr. 1782).
Type: 'Habitat in sylvis Insulae de Bourbon', *P. Sonnerat per A. Thouin s.n.* (SBT, holo.).

*Stachygynandrum verticillatum* (L.f.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 111 (10 Jan. 1805).

*Plananthus verticillatus* (L.f.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 112 (10 Jan. 1805).

*Urostachys verticillatus* (L.f.) Herter in Beihefte zum Botanischen Centralblatt 39,2: 249 (1922).

*L. setaceum* Lam. in Encyclopedie méthodique. Botanique 3,2: 653 (13 Feb. 1792).
Type: 'Dans les Antilles, & dans l'île de Bourbon', *P. Commerson s.n.* (P00466612!, holo.).

*P. setaceus* (Lam.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 112 (10 Jan. 1805).

*L. acerosum* sensu Tardieu in Flore de Madagascar et des Comores, 13e Famille—Lycopodiacées; 13bis Famille—Huperziacées: 23 (1971), non Sw. (1806a: 1575).

*U. acerosus* sensu Tardieu in Flore de Madagascar et des Comores, 13e Famille—Lycopodiacées; 13bis Famille—Huperziacées: 23 (1971), non (Sw.) Herter ex Nessel & Hoehne (1937: 4).

*H. acerosa* sensu Tardieu in Flore de Madagascar et des Comores, 13e Famille—Lycopodiacées; 13bis Famille—Huperziacées: 23 (1971), non Sw. (1806a: 1575), non (Sw.) Holub (1985: 70).

Distribution: Bioko, Cameroon, Comoro Isl., DRC, Kenya, Lesotho, Mauritius, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Tanzania, Zambia, Zimbabwe.

**Huperzia warneckei** *(Herter ex Nessel) Pic.Serm.* in Webbia 23,1: 163 (20 Nov. 1968a).

*Urostachys warneckei* Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 213 (Oct. 1939), nom. nud. [McNeill *et al.* (2006) Art. 32.1 (d) & Art. 41.3].
Type: 'Kamerun: Bamum Bamenda, 1908', *J. Greven s.n.* (BONN, syn.); 'Malimba', *J. Braun 64* (BONN, syn.); 'Liberia: Begwai, 21.X.1910', *P.H. Bunting 109* (?, syn.); 'Firestone Plantation N. 3, 30.VII.1926', *H. Linder 178* (BONN, K, syn.).

*U. warneckei* Herter ex Nessel in Revista Sudamericana de Botánica 6,5/6: 166, t. 13, t. 64 (1940a).
Type: 'Kamerun: Bamum Bamenda, 1908', *J. Greven s.n.* (BONN, holo.).

*Lycopodium warneckei* (Herter ex Nessel) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 20 (1956a).

Distribution: Cameroon, Côte d'Ivoire, Guinea, Liberia, Sierra Leone.

**Huperzia xiphophylla** *(Baker) Tardieu* in Adansonia, sér. 2, 10,1: 20 (1970).

*Lycopodium xiphophyllum* Baker, Handbook of the fern-allies: 12 (Jul. 1887d).
Type: "Central Madagascar", *R. Baron 4512* (K000351213!, holo.).

*Urostachys xiphophyllus* (Blume) Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 72, t. 11, fig. 9 (Oct. 1939).

Distribution: Madagascar.

## LYCOPODIELLA

**Lycopodiella** *Holub* in Preslia 36,1: 20, 21 (1964), emend. Pic.Serm. (1968a: 164). Type: *Lycopodiela inundata* (L.) Holub; *Lycopodium inundatum* L.

*Lycopodium* L. subgen. *Lycopodiella* (Holub) B.Øllg. in American Fern Journal 69,2: 49 (26 Jun. 1979). Type: *Lycopodiella* Holub.

*Lycopodium* L. sect. *Cernua* E.Pritz. in Die natürlichen Pflanzenfamilien 1,4: 602 (Jan. 1902), nom. superfl. for sect. *Campylostachys* Müll.Berol. Type: *Lycopodium cernuum* L.

*Lycopodium* L. sect. *Inundata* Baker ex E.Pritz. in Die natürlichen Pflanzenfamilien 1,4: 601 (Jan. 1902). Type: *Lycopodium inundatum* L.

*Lepidotis* Mirb. sect. *Inundata* (Baker ex E.Pritz.) Rothm. in Feddes Repertorium 54,1: 66 (30 Sep. 1944), as '*Inundata*'.

*Lycopodium* L. subgen. *Cernuistachys* Herter in Botanische Jahrbücher 43,1/2, Beiblatt 98: 29 (23 Feb. 1909a), as '*Cernuostachys*'. Type: *Lycopodium cernuum* L.

*Lycopodium* L. sect. *Cernuostachys* (Herter) Herter in Botanisches Archiv 3: 12, 20 (1923a), nom. superfl. for sect. *Campylostachys* Müll.Berol. (1861: 163).

*Lepidotis* Mirb. sect. *Campylostachys* (Müll.Berol.) Rothm. in Feddes Repertorium 54,1: 66 (30 Sep. 1944).

*Lepidotis* Mirb. sect. *Campylostachys* (Müll.Berol.) Rothm. ser. *Cernua* Rothm. in Feddes Repertorium 54,1: 66 (30 Sep. 1944), as '*Cernua*'. Type: *Lepidotis cernua* (L.) P.Beauv.; *Lycopodiella cernua* (L.) Pic.Serm.

*Lycopodiella* Holub sect. *Campylostachys* (Müll.Berol.) B.Øllg. in Opera Botanica a Societate Botanice Lundensi 92: 175 (1987). Type: *Lycopodiella cernua* (L.) Pic.Serm. (*Lycopodium cernuum* L.).

*Lycopodium* L. sect. *Campylostachys* Müll.Berol. in Botanische Zeitung (Berlin) 19,24: 163 (1861). Type: *Lycopodium cernuum* L.

*Palhinhaea* Vasc. & Franco in Boletim da Sociedade Broteriana, sér. 2, 41: 24, 25 (1967). Type: *Palhinhaea cernua* (L.) Vasc. & Franco; *Lycopodium cernuum* L.

*Lepidotis* Mirb. sect. *Inundata* (Baker ex E.Pritz.) Rothm. ser. *Caroliniatae* Rothm. in Feddes Repertorium 54,1: 66 (30 Sep. 1944), as '*Caroliniata*'. Type: *Lepidotis caroliniana* (L.) P.Beauv.; *Lycopodiella caroliniana* (L.) Pic.Serm.

*Lycopodium* L. sect. *Caroliniana* J.G.Bruce in American Fern Journal 66,4: 136 (1976). Type: *Lycopodium carolinianum* L.

*Lycopodiella* Holub sect. *Carolinianae* (J.G.Bruce) B.Øllg. in Opera Botanica a Societate Botanice Lundensi 92: 174 (1987), as '*Caroliniana*'. Type: *Lycopodium carolinianum* L.

*Pseudolycopodiella* Holub in Folia Geobotanica et Phytotaxonomica 18,4: 441 (1983). Type: *Pseudolycopodiella densum* (Rothm.) Holub.

**Lycopodiella affinis** *(Bory) Pic.Serm.* in Webbia 23,1: 165 (20 Nov. 1968a).

*Lycopodium affine* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 204, 262 (Sep. 1804b).
Type: 'Rampant sur l'humus entre les vieilles scories humides a la plaine des osmundes dans l'enclos du Volcan de l'ile Mascareigne', *J.B.G.M. Bory de St.-Vincent s.n.* (P00462094!, holo.).

*Lycopodium carolinianum* L. var. *affine* (Bory) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 214 (1967).

*Pseudolycopodiella affinis* (Bory) Holub in Folia Geobotanica et Phytotaxonomica 20,1: 79 (1985).

*Lepidotis repens* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 109 (10 Jan. 1805).
Type: 'l'Ile-de-France', *L.M.A. du Petit-Thouars & J.B.G.M. Bory de St.-Vincent s.n.* (?P, holo.).

*Lycopodium repens* (P.Beauv.) Sw., Synopsis filicum: 180 (Mar.–Apr. 1806b).

Distribution: Angola, Burkina Faso, Burundi, Cameroon, Cote d'Ivoire, DRC, Equatorial Guinea, Gabon, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Lycopodiella caroliniana** *(L.) Pic.Serm.* in Webbia 23,1: 165 (20 Nov. 1968a).

*Lycopodium carolinianum* L., Species plantarum 2: 1104 (1 May 1753).
Provenance: 'Habitat in Carolina'. Lectotype: '*Lycopodium pinnatum repens, spicis & pediculis singularibus longis*' in Dillenius, Historia muscorum: 452, t. 62, fig. 6 (1741), Herb. Dillenius no. CXLII (OXF, voucher), designated by Pichi Sermolli (1968a: 165).

*Lepidotis caroliniana* (L.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).

*Pseudolycopodiella caroliniana* (L.) Holub in Folia Geobotanica et Phytotaxonomica 18,4: 442 (1983).

*Lycopodium ericetorum* Schrad. in Göttingische gelehrte Anzeigen 1818: 920 (1818).
Type: South Africa, Cape Province, 'Löwenberg', *C.H.F. Hesse, C.H.F.* LE, holo.

*Lycopodium tuberosum* Welw. & A.Braun ex Kuhn, Filices africanae: 211 (Oct. 1868).
Type: 'Angola, districtus Huíla, in declivibus spongiosis editioribus (alt. s.m. 5000 ped.) de Morro de Lopollo', *F.M.J. Welwitsch 167* (B20 0115031!, holo.; BM, K000351208!, LISU, iso.).

*Lycopodium carolinianum* L. var. *tuberosum* (Welw. & A.Braun ex Kuhn) Nessel, Die Bärlappgewächse (Lycopodiaceae): 274 (Oct. 1939).

*Pseudolycopodiella tuberosa* (Welw. & A.Braun ex Kuhn) Holub in Folia Geobotanica et Phytotaxonomica 18,4: 442 (1983).

*Lycopodiella caroliniana* (L.) Pic.Serm. var. *tuberosa* (Welw. & A.Braun ex Kuhn) Verdc. in Flora of tropical East Africa, Lycopodiaceae: 16 (2005b).

*Lycopodium carolinianum* L. f. *biceps* Welw. ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 273 (Oct. 1939).
Type: 'Capland: Battaguakloff', *C.H.F. Hesse s.n.* (not located); 'Gouba, 1920', *T.R. Sim s.n.* (not located).

*Selaginella aequilonga* H.Christ in Bulletin de l'Herbier Boissier 3,8: 375 (1895b).
Type: 'West-Afrika: Stanleypool, 20 August 1888', *Hens 50* (Z, holo.).

*Lycopodium carolinianum* L. var. *welwitschii* Herter ex Nessel in Revista Sudamericana de Botánica 6,5/6: 168 (1940a).

Distribution: Angola, Burundi, Côté d'Ivoire, DRC, Guinea, Liberia, Madagascar, Malawi, Mali, Mauritius, Mozambique, Nigeria, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Lycopodiella cernua** *(L.) Pic.Serm.* in Webbia 23,1: 166 (20 Nov. 1968a).

*Lycopodium cernuum* L., Species plantarum 2: 1103 (1 May 1753).
Provenance: 'Habitat in Indiis'. Lectotype: Herb. Linn. No. 1257.13! (LINN), designated by Proctor (1977: 33).

*Lepidotis cernua* (L.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).

*Palhinhaea cernua* (L.) Vasc. & Franco in Boletim da Sociedade Broteriana, sér. 2, 41: 25 (1967).

*Lycopodium cernuum* L. var. *boryanum* A.Rich. in Voyage de découverts de l'Astrolabe 2, Sertum Astrolabianum: 52 (1834).
Type: l'Ascencion, *A.P. Lesson s.n.* (?P, holo.).
Note: Øllgard (1989: 35, 117) lists this as a species belonging to *Lycopodiella*, but the combination has never been formally made. Tardieu-Blot (1971: 8) considers it as a synonym of *Lycopodiella cernua*.

*Lycopodium cernuum* L. var. *seychellanum* Nessel in Feddes Repertorium 36,12/15: 193 (5 Nov. 1934).
Type: 'Seychellen: Mahé, Marc aux cochons 1895', *R. Smith-Kemper 24* (BONN, holo.).

*Lycopodium capillaceum* Willd. ex Spring in Flora 21,11: 165 (21 Mar. 1838).
Type: "Guana Guana", *F.W.H.A.F. von Humboldt 473* (B-W 19429-01 0, holo.).

*Lycopodium heeschii* Müll.Berol. in Botanische Zeitung (Berlin) 19,24: 164 (14 Jun. 1861).
Type: 'Sierra Leone, littoris Senegambiae, ad ripas fluminis in monte prope Freetown, 15 Aug. 1844', *Heesch s.n.* (not located).

*Lycopodium secundum* Müll.Berol. in Botanische Zeitung (Berlin) 19,24: 164 (14 Jun. 1861).
Type: 'Ad promontorio bonae spei et in Natalia inter saxa sylvarum humida', *W. Gueinzius s.n.* (W!, syn.).

*Lycopodium cernuum* L. var. *caboverdeanum* Gilli in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 115: 39 (1876).
Type: 'Kapverdische Inseln, Fogo, Spitze de Vulcans, Jan. 1975'; "Fogo, im Krater bei einer Fumarole, 2 750 m, 2.1.1975" *W. Ramsaur s.n.* (W!, holo.).

*Lycopodiella cernua* (L.) Pic.Serm. var. *caboverdeana* (Gilli) O.E.Erikss., A.Hansen & Sunding, Flora of Macaronesia: check-list of vascular plants, edn 2, 1: 92 (1979).

Distribution: Angola, Annobon, Ascension Isl., Benin, Bioko, Burundi, Cameroon, Cape Verde Isl. (Fogo), Central African Republic, Comoro Isl., Congo, Côté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mali, Mauritius, Mozambique, Nigeria, Pemba, Príncipe, Rodrigues Isl., Rwanda, São Tomé, Senegal, Sierra Leone, South Africa, St Helena, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

See Plate 1C.

**Lycopodiella sarcocaulon** *(A.Braun & Welw. ex Kuhn) Pic.Serm.* in Webbia 23,1: 166 (20 Nov. 1968a).

*Lycopodium sarcocaulon* A.Braun & Welw. ex Kuhn, Filices africanae: 210 (Oct. 1868).
Type: 'Angola, districtus Huilla, in declivibus spongiosis editioribus de Morro de Lopollo', *F.M.J. Welwitsch 168* (K000351209!, lecto.), designated by Nessel (1939: 273); (BM, K000351211!, P, isolecto.).

*Lycopodium carolinianum* L. var. *sarcocaulon* (A.Braun & Welw. ex Kuhn) Nessel, Die Bärlappgewächse (Lycopodiaceae): 273 (Oct. 1939).

*Pseudolycopodiella sarcocaulon* (A.Braun & Welw. ex Kuhn) Holub in Folia Geobotanica et Phytotaxonomica 18,4: 442 (1983).

*Lycopodium carolinianum* L. var. *grandifolium* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 46 (1850).
Type: South Africa, Transvaal, Magaliesberg, *J. Burke 531* (K000351223!, lecto.), designated by Schelpe & Anthony (1986: 13).

*Lycopodiella caroliniana* (L.) Pic.Serm. var. *grandifolia* (Spring) Verdc. in Flora of tropical East Africa, Lycopodiaceae: 17 (2005b).

Distribution: Angola, Malawi, Mozambique, South Africa, Swaziland, Zambia, Zimbabwe.

## LYCOPODIUM

**Lycopodium** *L.*, Species plantarum 2: 1100 (1 May 1753), emend. Rothm.: (1944: 63). Lectotype: *Lycopodium clavatum* L., designated by Britton & Brown (1913: 43).

*Lycopodium* L. subgen. *Clavatistachys* Herter in Botanische Jahrbücher 43,1/2, Beiblatt 98: 29 (23 Feb. 1909a), as '*Clavatostachys*', nom. superfl. for subgen. *Lycopodium*. Type: *Lycopodium clavatum* L.

*Lycopodium* L. sect. *Clavatistachys* Herter ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 276 (Oct. 1939), as '*Clavatostachys*', nom. superfl. for sect. *Lycopodium* L.

*Lycopodium* L. sect. *Clavata* E.Pritz. in Die natürlichen Pflanzenfamilien 1,4: 603 (Jan. 1902), nom. superfl. for sect. *Lycopodium.* Type: *Lycopodium clavatum* L.

*Lepidotis* Mirb. in Histoire naturelle des végétaux, classés par familles 3: 477 (21 Nov. 1802a). Lectotype: *Lepidotis clavata* (L.) P.Beauv.; *Lycopodium clavatum* L., designated by Pichi Sermolli (1971: 145–149).

*Lycopodium* L. subgen. *Complanatistachys* Herter in Botanische Jahrbücher 43,1/2, Beiblatt 98: 29 (23 Feb. 1909a), as '*Complanatostachys*'. Type: *Lycopdium complanatum* L.

*Lycopodium* L. sect. *Complanata* Vict. in Contributions du Laboratoire de Botanique de l'Université de Montréal 3: 34, 89 (1925). Type: *Lycopodium complanatum* L.

*Diphasiastrum* Holub in Preslia 47,1: 104 (28 Feb. 1975). Type: *Diphasiastrum complanatum* (L.) Holub; (= *Lycopodium companatum* L.).

*Lycopodium* L. sect. *Caroliniana* J.G.Bruce in American Fern Journal 66,4: 136 (31 Dec. 1976). Type: *Lycopodium carolinianum* L.

*Lycopodium* L. sect. *Magellanica* B.Øllg. in Opera Botanica a Societate Botanice Lundensi 92: 172 (1987). Type: *Lycopodium magellanicum* (P.Beauv.) Sw.

*Diphasium* C.Presl ex Rothm. in Feddes Repertorium 54,1: 64 (30 Sep. 1944). Type: *Diphasium jussiaei* (Desv. ex Poir.) Rothm. (= *Lycopodium jussiaei* Desv. ex Poir.).

*Lycopodium* L. subgen. *Diphasium* Baker, Handbook of the fern-allies: 8 (Jul. 1887d). Type: None designated.

*Diphasium* C.Presl ex Rothm. ser. *Complanata* Rothm. in Feddes Repertorium 54,1: 64 (30 Sep. 1944). Type: *Diphasium complanatum* (L.) Rothm.

**Lycopodium aberdaricum** *Chiov.* in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 152 (1935).
Type: 'Mt. Aberdare, sul Kinangop, 20-II-1910', *Balbo 475* (TOM, holo.; FI-PS 24103, iso.).

Distribution: Kenya.

**Lycopodium acutifolium** *Desv. ex Poir.* in Encyclopédie méthodique, Botanique. Supplementum 3,2: 559 (3 Sep. 1814).
Type: 'In insulâ Mauritii', *sine coll. s.n.* (P00466615!, holo.).

Distribution: Mauritius.

**Lycopodium carolinum** *(Lawalrée) J.P.Roux*, comb. nov.

*Diphasium carolinum* Lawalrée in Bulletin de la Société des Naturalistes Luxembourgeois 76,1: 3, 5, figs 1, 2 (1972).
Type: 'Kahuzi, juillet 1959', *A. Léonard 4773* (BR, holo.; C, K000351203!, iso.).

*Diphasiastrum carolinum* (Lewalrée) Holub in Preslia 47,1: 108 (28 Feb. 1975).

Distribution: DRC.

**Lycopodium clavatum** *L.*, Species plantarum 2: 1101 (1 May 1753).
Provenance: 'Habitat in Europae sylvis muscosis'. Type: Herb. Burser XX: 49 (UPS, lecto.), designated by Jonsell & Jarvis (1993: 63).

*Lepidotis clavata* (L.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).

*Lycopodium trichiatum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 350 (Sep. 1804a).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (P00462096, holo.; B-W 19349!; iso.).

*Lycopodium clavatum* L. var. *trichiatum* (Bory) Nessel, Die Bärlappgewächse (Lycopodiaceae): 301, 302, pl. 69, figs 47, 48 (Oct. 1939).

*Lycopodium clavatum* L. var. *borbonicum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 205 (Sep. 1804b).
Type: 'Hab. in ins. Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (P00462096, holo.; B-W 19349!; iso.).

*Lycopodium trichiatum* Bory var. *borbonicum* (Bory) Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 15: 92 (1842).

*Lepidotis ciliata* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).
Type: 'Ile de Bourbon', *J.B.G.M. Bory de St.-Vincent s.n.* (P, holo.), missing.

*Lycopodium ciliatum* (P.Beauv.) Sw., Synopsis filicum: 179 (Mar.–Apr. 1806b).

*Lepidotis inflexa* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 109 (10 Jan. 1805).
Type: 'i'Ile-de-France', *J.B.G.M. Bory de St.-Vincent s.n.* (P00462095!, holo.).

*Lycopodium inflexum* (P.Beauv.) Sw., Synopsis filicum: 179 (Mar.–Apr. 1806b).

*Lycopodium clavatum* L. var. *inflexum* (P.Beauv.) Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 15: 90 (1842).

*Lycopodium clavatum* L. var. *natalense* Nessel in Feddes Repertorium 36,12/15: 191, t. CLXXVI (5 Nov. 1934), as '*nataliense*'.
Type: 'Natal: an trockenen Berghängen, 16.VII.1906', *Holz s.n.* (BONN?, holo.).

*Lycopodium clavatum* L. var. *inflexum* (P.Beauv.) Spring f. *subtilis* Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 152 (1935).
Type: 'Mt. Kenya NE, Valle del Singhiso a 2 000 m., 18-VIII-1929', *Balbo 432* (TOM, holo.).

*Lycopodium trichophyllum* sensu C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 189 (1924), non Desv. (1827: 184).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore), Côte d'Ivoire, DRC, Ethiopia, Guinea, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Lycopodium diaphanum** *(P.Beauv.) Sw.*, Synopsis filicum: 179 (Mar.–Apr. 1806b).

*Lepidotis diaphana* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 108 (10 Jan. 1805).
Type: 'l'Ile de Tristan Dacunha', *M. du Petit-Thouars s.n.* (P, holo.; B-W 19358, iso.).

*Lycopodium clavatum* sensu Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 30 (Oct. 1808).

Distribution: Gough Isl., Inaccessible Isl., Tristan da Cunha.

**Lycopodium hildebrandtii** *Herter* in Botanische Jahrbücher 43,1/2, Beiblatt 98: 40, 41 (23 Feb. 1909a).
Type: 'Madagascar. Imerina: Andrangoloaka, 1880', *J.M. Hildebrandt 4152* (B?, K000351212!, P00226994!, P00466631!, P00466632!, syn.); 'Madagascar: Ambotrimitombo, Tanala 1 350–1 440 m, 1894', *C.I. Forsyth-Major 617* (B?, syn.).

Distribution: Madagascar.

**Lycopodium magellanicum** *(P.Beauv.) Sw.*, Synopsis filicum: 180 (Mar.–Apr. 1806b).

*Lepidotis magellanica* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 102 (10 Jan. 1805).
Type: "Magellan", *P. Commerson s.n.* (P-JU 668, holo.).

*Lycopodium clavatum* L. var. *magellanicum* (P.Beauv.) Hook.f., Flora antarctica 1,8: 113 (1 May 1845).

Distribution: Crozet Isl., Gough Isl., Kerguelen Isl., Marion Isl., Tristan da Cunha.

**Lycopodium zanclophyllum** *J.H.Wilce* in Nova Hedwigia 3,1: 108–110, t. 3, figs 9, 10, t. 8 (1961).
Type: Madagascar. 'Nov. 1880, Ost-Imerina: Andrangoloaka. Auf dürren Hügeln zwischen Gesträuch', *J.M. Hildebrandt 3781* (P00466635, holo.; BM, BOL128001, BONN, P00466624, P00466633, P00477917, P00518410, P00518411, P00518412!, US, iso.).

*Diphasium zanclophyllum* (J.H.Wilce) Rothm. in Feddes Repertorium 66,3: 235 (1962).

*L. complanatum* L. subsp. *zanclophyllum* (J.H.Wilce) Schelpe in Journal of South African Botany 35,2: 128 (1969a).

*Diphasiastrum zanclophyllum* (J.H.Wilce) Holub in Preslia 47,1: 108 (28 Feb. 1975).

*L. complanatum* L. f. *pseudoverticillatum* Hildebr. ex Nessel, Die Bärlappgewächse (Lycopodiaceae): 330 (Oct. 1939), nom. nud. (McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*L. complanatum* sensu C.Chr. (1932b: 219), non L. (1753: 1104).

Distribution: Madagascar, South Africa.

## SELAGINELLALES *Prantl*, Lehrbuch der Botanik: 116, 124 (20 Apr. 1874), as '*Selaginelleae*'

### SELAGINELLACEAE

**Selaginellaceae** *Milde*, Die höheren Sporenpflanzen Deutschland's und der Schweiz: 136 (Mar. 1865a). Type: *Selaginella* P.Beauv.

*Selaginellaceae* Willk., Anleitung zum Selbststudium der Botanik 2: 163 (Feb. 1854), nom. illeg. Type: *Selaginella* P.Beauv.

Note: the family name is discussed by Pichi Sermolli (1982a: 235, 236).

#### SELAGINELLA

**Selaginella** *P.Beauv*. in Magazin Encyclopédique, ou Journal des Sciences, des Lettres et des Arts 5,20: 478 (1804), nom. cons. Type: *Selaginella spinosa* P.Beauv., nom. illeg. (now *Selaginella selaginoides* (L.) Link; *Lycopodium selaginoides* L.).

*Selago* Boehm., Definitiones generum plantarum, edn 3: 484 (Oct. 1760), nom. illeg., non L. (1753: 629), nec Hill (1757: 533). Lectotype: *Lycopodium selago* L., designated by Rothmaler (1944: 58).

*Mirmau* Adans., Familles des plantes 2: 491 (Jul.–Aug. 1763), nom. superfl. for *Selaginoides* Ség. (= *Selaginella* P.Beauv.), with the same type (Pichi Sermolli 1971: 160–162).

*Didiclis* P.Beauv. in Histoire naturelle des végétaux, classés par familles 3: 477, 478 (21 Nov. 1802). Type: *Didiclis ornithopodioides* (L.) Mirb. (*Didiclis stolonifera* (Sw.) P.Beauv.; *Lycopodium ornithopodioides* L.; = *Selaginella* P.Beauv.).

*Stachygynandrum* P.Beauv. ex Mirb. in Histoire naturelle des végétaux, classés par familles 3: 477 (21 Nov. 1802a), p.p. Type: *Selaginella flabellata* (L.) Spring; *Lycopodium flabellatum* L.

*Selaginella* P.Beauv. subgen. *Stachygynandrum* (P.Beauv. ex Mirb.) Baker in Journal of Botany, British and Foreign 21: 3 (1883a), emend. Jermy (1986: 118).

*Selaginella P.Beauv.* subgen. *Heterostachys* Baker in Journal of Botany, British and Foreign 21: 4 (1883a). Lectotype: *Selaginella heterostachys* Baker.

*Selaginella* P.Beauv. sect. *Homoeophyllae* Spring in Flora brasiliensis 1,2: 118 (1840). Type: *Selaginella rupestris* (L.) Spring; *Lycopodium rupestre* L.

*Selaginella* P.Beauv. subgen. *Homoeophyllum* (Spring) Hieron. in Hieronymus & Sadebeck, Die natürlichen Pflanzenfamilien 1,4: 669 (Sep. 1901), p.p.

*Selaginella* P.Beauv. ser. *Tetragonostachys* A.Braun, Appendix plantarum novarum Horto berolensi 1857: 11 (1857). Type: *Selaginella rupestris* Spreng.

*Selaginella* P.Beauv. sect. *Tetragonostachys* (A.Braun) Hieron. in Hieronymus & Sadebeck, Die natürlichen Pflanzenfamilien 1,4: 669 (Sep. 1901).

*Selaginella* P.Beauv. subgen. *Tetragonostachys* (A.Braun) Jermy in Fern Gazette 13,2: 118 (1986).

*Selaginella* P.Beauv. subgen. *Ericetorum* Jermy in Fern Gazette 13,2: 117 (1986). Type: *Selaginella uliginosa* (Labill.) Spring; *Lycopodium uliginosum* Labill.

**Selaginella auquieri** *Bizzarri* in Bulletin du Jardin Botanique National de Belgique 51,1/2: 220 (30 Jun. 1981).
Type: "Zaire, Irania (Kivu), alt. env. 850 m, forêt équatoriale, réserve I.R.S.A.C., près des chutes de la Lutunulu (affluent de la Luhoho), sous -bois frais et humide, sur terre, 3.1.1972", *P. Auquier, 2120* (GENT, holo.; BR, LG, FI-PS, PRE0592056, iso.).

Distribution: DRC.

**Selaginella balansae** *(A.Braun) Hieron.* in Hedwigia 39: 318 (1900b).

*S. rupestris* (L.) Spring var. *balansae* A.Braun in Kuhn, Filices africanae: 212, 213 (Jan.–Mar. 1868).
Type: 'Marocco, in rupestribus schistosis convallis Oued Ghaghaia ad meridiem urbis', *B. Balansa s.n.* (B20 0130224!, holo.!; K000351224!, K000351225!, P00466610!, P00466611!, NY, US, iso.).

*S. rupestris* (L.) Spring subsp. *balansae* (A.Braun) Maire in Catalogue des plantes du Maroc 1: 11 (1931).

Distribution: Morocco.

**Selaginella balfourii** *Baker*, Flora of Mauritius and the Seychelles: 522, 523 (2 Aug. 1877b).
Type: Rodriques, on the coralline limestone, *I.B. Balfour s.n.* (B20 0130225!, iso.).

Distribution: Rodriques Isl.

**Selaginella barklyi** *Baker*, Flora of Mauritius and the Seychelles: 522 (2 Aug. 1877b).
Type: Mauritius, Round Island, *H. Barkly s.n.* (K000351282, holo.).

Distribution: Mauritius.

**Selaginella bemarahensis** *S.Stefanović & Rakotondr.* in Novon 6,2: 203, fig. 1a, b, map 3a (1996).
Type: 'Madagascar, Mahajanga: Reserve Naturelle de Bemaraha, au sud-est d'Antsalovo, 18°45'S, 44°48'E, 400 m, 23 Aug. 1987', *P. Phillipson 2257* (P026173!, holo.; MO0011823, iso.).

Distribution: Madagascar.

**Selaginella biformis** *Kuhn* in Die Forschungsreise S.M.S. "Gazelle" in den Jahren 1874 bis 1876 4, Farne: 17 (1889b).
Type: Philippines, *H. Cuming 2016* (B, holo.; BM, iso.).

Note: native of SE Asia and New Guinea. Reported to be adventive at Amani, Tanzania (Johns 1991: 109; Verdcourt 2005c: 12).

Distribution: Tanzania, adventive. Originally from India, Burma, S. China, Philippines and Indonesia.

**Selaginella blepharophylla** *Alston* in Mémoires de l'Institut Français d'Afrique Noire 50: 40, pl. 6, figs 9–15 (1957b).
Type: 'Libéria: S de Kitoma', *F. Harley 156* (BM, holo.).

Distribution: Côte d'Ivoire, Liberia.

**Selaginella brachystachya** *(Hook. & Grev.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 232 (1843b).
Note: listed by Braun (1868b: 188), but may have been reported in error from Madagascar.

*Lycopodium brachystachyum* Hook. & Grev., Botanical Miscellany 3: 107 (1833).
Type: Macrae, *sine coll. s.n.* (K, holo.).

Distribution: Mauritius.

**Selaginella buchholzii** *Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 696 (Nov. 1901).
Type: Sur la rivière Quaqua ['am Quaqua in Westafrika'], *R.W. Buchholz s.n.* (B20 0077907, holo.; P00466608!, P00466609!, iso.).

*S. buchholzii* Hieron. var. *togensis* Hieron. in Hedwigia 43: 52 (1904).
Type: 'Togo: habitat locis pratosis ad rivulum prope Sokode, alt. s. m. 300 m, 25 Nov. 1900', *F. Schroeder 163* (not located).

Distribution: Cameroon, Congo, Côte d'Ivoire, Gabon, Ghana, Liberia, Nigeria, Sierra Leone, Togo.

**Selaginella caffrorum** *(Milde) Hieron.* in Hedwigia 39: 313 (1900b), var. **caffrorum**.

*S. rupestris* (L.) Spring f. *caffrorum* Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae 262 (1 Oct.–5 Nov. 1867).
Type: 'Terra Caffrorum', *A.A. von Bunge s.n.* (P00466582!, holo.).

*Bryodesma caffrorum* (Milde) Soják in Preslia 64,2: 154 [1992] (1993).

*S. rupestris* (L.) Spring var. *incurva* A.Braun ex Kuhn, Filices africanae: 213 (Oct. 1868), p.p.
Type: *Lycopodium rupestre* a, *J.F. Drège s.n.* (B, lecto.), designated by R.M. Tryon (1955: 53); (BM, G, P, isolecto.).

*S. rupestris* (L.) Spring var. *incurva* A.Braun ex Kuhn f. *angolensis* A.Braun in Kuhn, Filices africanae: 213 (Oct. 1868).
Type: 'Angola, distr. Huila, in rupestribus dumetosis ad 500 ped. alt. montium de Lopollo', *F.M.J. Welwitsch 169* (B20 0130226!, holo.; BM, K, NY, P00507722!, iso.).

*S. rupestribus* (L.) Spring var. *incurva* A.Braun ex Kuhn f. *capensis* A.Braun in Kuhn, Filices africanae: 213 (Oct. 1868), nom. inval.
Type: 'Prom. bon. spei', *C.F. Ecklon & C.L.P. Zeyher 7* (B!, syn.); 'In monte Katberg, in campis graminosis 4–5000 ped. alt., (*Lycopodium rupestre* a)', *J.F. Drège s.n.* (B!, syn.); 'Witbergen, locis petrosis 5–6000 ped. alt. (*Lycopodium rupestre* aa', *Drège s.n.*).

*S. capensis* Hieron. in Hedwigia 39: 314 (1900b).
Type: Lectotype: Based on *Lycopodium rupestre* a, from South Africa, *J.F. Drège s.n.* (B, lecto.), designated by R.M. Tryon (1955: 53); (GH, K, P00466580, P00466581, US, isolecto.).

*S. rupestris* sensu Sim, The ferns of South Africa, edn 2: 332, 333, pl. 179, t. 2 (1915).

Distribution: Angola, Burundi, DRC, Kenya, Lesotho, South Africa, Sudan, Tanzania, Uganda.

See Plate 1D.

**Selaginella caffrorum** *(Milde) Hieron.* var. **aethiopica** *Bizzarri* in Webbia 29,2: 556 (1975).
Type: "Abissinia. Choho", *R. Quartin-Dillon 22 et A. Petit s.n.* (B20 0130229!, holo.; P00065017, iso.).

*S. rupestris* (L.) Spring var. *incurva* A.Braun ex Kuhn f. *abyssinica* A.Braun in Kuhn, Filices africanae: 213 (Oct. 1868), nom. nud.
Type: "Abyssinia. Choho", *R. Quartin-Dillon et A. Petit s.n.* (B20 0130229!, holo.; P00065017, iso.).

*S. quartiniana* Cufod. in Phyton (Horn) 4,1/2: 178 (1952), nom. nov. for *S. rupestris* var. *incurva* f. *abyssinica*.

Distribution: Eritrea, Ethiopia.

**Selaginella cataphracta** *(Willd.) Spring* in Flora 21,14: 209, 210 (14 Apr. 1838).

*Lycopodium cataphractum* Willd., Species plantarum, edn 4, 5,1: 43 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *D. Flügge s.n.* (B-W 19398!, holo.; B!, iso.).

Distribution: Réunion.

**Selaginella cathedrifolia** *Spring* in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 112 (1850).
Type: 'Hab. in Africa occidentali [extra tropicum Capricorni: Curror]', *W. Hooker s.n.* (K000351236!, K000351237!, holo.; B, BM, P00065024, P00065025, iso.).

*Lycopodiodes cathedrifolium* (Spring) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*S. cathedrifolia* Spring var. *rigidiuscula* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 113 (1850).
Type: 'Hab. in Africa occidentali [extra tropicum Capricorni]', *A.B. Curror s.n.* (K, holo.).

*S. zenkeri* Hieron. ex Bonap. in Notes Ptéridologiques 7: 253 (14 Oct. 1918c), nom. nud. [McNeill *et al.* (2006) Art. 41.3].
Type: "Bipinde, 80 m, 2/5.1896" *J. Zenker 902* (B20 0130261, holo.).

Distribution: Angola, Cameroon, Congo, Côté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, Sierra Leone, Togo.

**Selaginella chevalieri** *Hieron. ex Bonap.* in Notes Ptéridologiques 1: 124 (14 Jul. 1915d), nom. nud. [McNeill *et al.* Art. 41.3 (2006)].
Type: Belgian Congo. 'Lungangula. 1913', *Bavicchi 164* (BR?, holo.).

Distribution: DRC.

**Selaginella commersoniana** *Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 141, 142 (1843a).
Type: Mahé, erroneously given as 'Hab. in Philippinis insulis', *P. Commerson s.n.* (not located).

Distribution: Mauritius.

**Selaginella concinna** *(Sw.) Spring* in Flora 21,12: 188 (28 Mar. 1838).

*Lycopodium concinnum* Sw., Synopsis filicum: 182–184, 408 (Mar.–Apr. 1806b).
Type: Mauritius, *F.W. Sieber s.n.* (not located); Borboniae, "Ile de france & Bourbon", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19390-02 0, ?syn.).
Note: material at the Natural History Museum (BM), *F.W. Sieber 12*, may be eligible as a syntype.

*Stachygynandrum obtusum* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 113 (10 Jan. 1805).
Type: 'l'Ile-de-France', *J.B.G.M. Bory de St.-Vincent s.n.* (?B-W).

*L. viridulum* Bory ex Willd., Species plantarum, edn 4, 5,1: 37 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19381!, holo.).

*Selaginella viridula* (Bory ex Willd.) Spring in Flora 21,12: 190 (28 Mar. 1838).

*L. apiculatum* Desv. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 551 (3 Sep. 1814).
Type: "Habitat in insula Mauritii", *sine coll. s.n.* (P00483525, holo.).

*Selaginella apiculata* (Desv.) Hieron. in Botanische Jahrbücher 56: 243 (1920).

*Selaginella desvauxii* Kümmerle in Magyar Botanikai Lapok 26: 100 (1928).
Type: Based on *Lycopodium apiculatum* Desv. (= *Selaginella apiculata* (Desv.) Hieron., non Alderw. 1918: 52).

Distribution: Madagascar, Mauritius, Réunion.

**Selaginella congoensis** *Alston* in Mémoires de l'Institut Français d'Afrique Noire 50: 30–32, t. 6, figs 1–8 (1957b).
Type: 'Congo belge: entre Boija et le haut Congo', *K. Jensen 51* (BM, holo.).

Distribution: DRC.

**Selaginella cupressina** *(Willd.) Spring* in Flora 21,14: 211 (14 Apr. 1838).

*Lycopodium cupressinum* Willd., Species plantarum, edn 4, 5,1: 43, 44 (25–27 Jun. 1810).
Type: "Habitat al insula Borboniae", in error sensu Alston (1935: 382), from Moluccas. *Sine coll. s.n.* (B-W 19397!, holo.).
Note: reported in error from Réunion according to Alston (1935: 382), a species from SE Asia.

**Selaginella deliquescens** *(Spring) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 225 (1843b).

*S. fruticulosa* (Bory ex Willd.) Spring. subsp. *deliquescens* Spring in Flora 21,13: 204, 205 (7 Apr. 1838).
Type: "Insula Mauritii", *F.W. Sieber, Syn. fil. no. 14* (P, holo.; B20 0130233, BM!, iso.).

Distribution: Mauritius.

**Selaginella denticulata** *(L.) Spring* in Flora 21,10: 149; 21,14: 214 (14 Mar. 1838).

*Lycopodium denticulatum* L., Species plantarum 2: 1106 (1 May 1753).
Provenance: 'Habitat in Lusitania, Hispania, Iberia.'
Type: none designated.

Distribution: Algeria, Libya, Morocco, Tunisia.

**Selaginella digitata** *Spring* in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 75, 76 (1850).
Type: 'Hab. in ins. Madagascar [in arenosis humidis Ambongo]', *A. Pervillé 608* (LG, holo.;

BM, K000351281!, P00046657!, P00026091!, P00026092!, iso.).

Distribution: Madagascar.

**Selaginella distachya** *Cordem.* in Bulletin de la Société des Sciences et Arts de l'Île Réunion 1890–91: 104 (1891).
Type: Réunion. 'Forêt du Grand-Fond à Saint Benoit', *H.J. de Cordemoy 149* (P00483526, holo.).
Note: a De Cordemoy specimen from "Bourbon 1893" is also present at Berlin and may be authentic.

Distribution: Réunion.

**Selaginella dregei** *(C.Presl) Hieron.* in Hedwigia 39: 315, t. 36 (1900b).
*Lycopodium dregei* C.Presl in Abhandlungen der Königlichen Böhmischen Gesellschaft der Wissenschaften, ser. 5, 3: 583 (1845a).
Type: 'Habitat in Capite bonae spei ad ripas rupestres fluvii Omsamcaba et in montibus Katberg et Witberge', *J.F. Drège s.n.* (PR, holo.; B20 0130238, BM, K, P00507744!, P00466604!, iso.).
*S. rupestris* (L.) Spring f. *dregei* (C.Presl) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 262 (1 Oct.–5 Nov. 1867).
*S. rupestris* (L.) Spring var. *recurva* A.Braun f. *dregeana* (C.Presl) A.Braun ex Kuhn, Filices africanae: 214 (Oct. 1868).
*Bryodesma dregei* (C.Presl) Soják in Preslia 64,2: 154 [1992] (1993).
*S. rupestris* (L.) Spring var. *recurva* A.Braun f. *welwitschiana* A.Braun in Kuhn, Filices africanae: 214 (Oct. 1868).
Type: 'Angola, distr. Pungo Andongo, in rupestribus editissimis (3800 ped.) de Pedras de Guinza', *F.M.J. Welwitsch 48* (B20 0130237, lecto.), designated by R.M. Tryon (1955: 57); (P00507727!, P00507728!, isolecto.); 'Angola, Pedras Cazella', *F.M.J. Welwitsch 49* (B!, P00507726!, syn.).
*S. dregei* (C.Presl) Hieron. var. *welwitschiana* (A.Braun) Hieron. in Hedwigia 39: 318 (1900b).
*S. dregei* (C.Presl) Hieron. var. *buchmanniana* Hieron. in Hedwigia 39: 317 (1900b).
Type: 'Pondoland, 1887–1888', *F. Buchmann 9* (B!, holo.).
*S. dregei* (C.Presl) Hieron. var. *hildebrandtiana* Hieron. in Hedwigia 39: 317 (1900b).
Type: 'Africa orientalis: crescit prope Egu inter Duruma et Teita in rupibus arenaceis metamorphicis, Jan. 1877', *J.M. Hildebrandt 2363* (B20 0130243!, lecto.), designated by R.M. Tryon (1955: 57); (B20 0130244!, B20 0130245! BM, K, NY, P00065022, P00466605!, P000466606!, P00466607!, isolecto.); 'prope Merue, 9 Aug', *S. Fisher 621* (B!, NY, syn.); 'in regione deserta Massai loco meridiem versus sito, Junio 1892', *F. Stuhlmann 4305* (B!, syn.); 'prope Ihangiro in Niansa occidentali in faucibus locorum plantis Musae sp. Cultorum, 11 nov. 1890', *F. Stuhlmann 910* (B, syn.).
*S. grisea* Alston in Journal of Botany, British and Foreign 77: 222 (Aug. 1939a), nom. nov. for *S. dregei* var. *hildebrandtiana* Hieron.
Type: 'Africa orientalis: crescit prope Egu inter Duruma et Teita in rupibus arenaceis metamorphicis, Jan. 1877', *J.M. Hildebrandt 2363* (B20 0130243!, lecto.), designated by R.M. Tryon (1955: 57); (B20 0130244!, B20 0130245! BM, K, NY, P00065022, P00466605!, P000466606!, P00466607!, isolecto.).
*S. dregei* (C.Presl) Hieron. var. *petersiana* Hieron. in Hedwigia 39: 317 (1900b).
Type: Mozambique, *A. Peters s.n.* (B20 0130246!, holo.).
*S. dregei* (C.Presl) Hieron. var. *pretoriensis* Hieron. in Hedwigia 39: 317 (1900b).
Type: 'Transvaal: in collibus supra Aapiesrivier prope urbem Pretoria', *A. Rehmann 4333* (B20 0130247!, lecto.), designated by R.M. Tryon (1955: 57); 'Prope Hoogeveld inter Standerton et Pretoria, Nov. 1883', *F. Wilms 1814* (not located).
*S. dregei* (C.Presl) Hieron. var. *rehmanniana* Hieron. in Hedwigia 39: 317 (1900b).
Type: 'Transvaal: prope Houtbosch', *A. Rehmann 5576* (B20 0130248!, lecto.), designated by R.M. Tryon (1955: 57); (BOL, K, iso.); 'Mossambik: prope Beira', *A.J.R. Braga 98* (B, syn.).

Distribution: Angola, Botswana, DRC, Kenya, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Selaginella echinata** *Baker* in Journal of the Linnean Society, Botany 22: 536 (1887c).
Type: 'Madagascar', *R. Baron 4226* (K000351280!, holo.; B20 0130250; BM, iso.).

Distribution: Madagascar.

**Selaginella elegans** *(Desv.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 226 (1843b).
*Lycopodium elegans* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 188 (1827).
Type: 'Habitat in insula Mascareigne', *sine coll. s.n.* (P00483530, holo.).

Distribution: Réunion.

**Selaginella erythropus** *(Mart.) Spring* in Flora brasiliensis 1,2: 125, 126 (1840).
Note: native to South America and listed by Johns (1991: 108) who gives it as being adventive in Tanzania. Verdcourt (2005c) does not list the species, but he does list *S. erythropus* (Mart.) Spring var. *major* Spring as a synonym of *S. umbrosa* Hieron.

**Selaginella eublepharis** *A.Braun* in Die natürlichen Pflanzenfamilien 1,4: 677 (Nov. 1901).
Type: 'Deutsch-Ostafrica (Zanzibarküste, Usaramo)', *J.M. Hildebrandt 1961* (B20 0086966!, B20 086967!, B20 086968!, B20 086969!, BM, K000351252!, syn.); Tanzania, Usaramo, *F. Stuhlmann 8959a* (B20 0086965!, syn.).
*S. vogelii* sensu Baker in Journal of Botany, British and Foreign 1885: 48 (1885a), non Spring (1850: 170).

Distribution: Kenya, Malawi, Mozambique, Tanzania.

**Selaginella falcata** *(P.Beauv.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 225 (1843b).
*Stachygynandrum falcatum* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 106 (10 Jan. 1805).
Type: Based on Dillenius t. 66, fig. 9, on p. 113 as 't. 67, fig. 9' (1741).
Note: reported in error from Madagascar (Alston 1932c: 200).

Distribution: Mauritius, Réunion.

**Selaginella fissidentoides** *(Hook. & Grev.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 142 (1843a), var. **fissidentoides** f. **fissidentoides**.
*Lycopodium fissidentoides* Hook. & Grev., Botanical Miscellany 2: 395 (1831).
Type: 'Madagascar', *R. Lyall 267* (K000351271!, holo.).

*L. umbrosum* Bory ex Willd., Species plantarum, edn 4, 5,1: 36 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii, Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19380!, holo.).

*S. concinna* sensu Baker in Journal of Botany, British and Foreign 1891: 5 (1891b), non (Sw.) Spring (1838: 188).

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

**Selaginella fissidentoides** *(Hook. & Grev.) Spring* var. **fissidentoides** f. **ovata** *S.Stefanović & Rakotondr.* in Novon 6,2: 208, fig. 1f, map 3b (24 Jun. 1996).
Type: 'Madagascar, Est-Centre, forêt d'Analamazaotra, 800 m', *H. Perrier de la Bâthie 6087* (P00075472!, holo.; P00075473!, P00466603!, iso.).

Distribution: Madagascar.

**Selaginella fissidentoides** *(Hook. & Grev.) Spring* var. **amphirrhizos** *(A.Braun ex Hieron.) S.Stefanović & Rakotondr.* in Novon 6,2: 208, map 3b (24 Jun. 1996).

*S. amphirrhizos* A.Braun ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 71 (Aug.–Sep. 1879), nom. nud. [McNeill *et al.* (2006) Art. 41.3].
Type: 'Comores. Comoro-Insel Johanna, 500–1 000 m, June–Aug. 1875', *J.M. Hildebrandt 1808* (B20 0127761!, holo.; P00075356!, iso.).

*S. amphirrhizos* A.Braun ex Salomon, Nomenclator der Gefässkryptogamen: 350 (Oct. 1883), nom. nud. [McNeill *et al.* (2006) Art. 41.3].

*S. amphirrhizos* A.Braun ex Hieron. in Die natürlichen Pflanzenfamilien 1,4: 705 (Nov. 1901).
Type: 'Comores. Comoro-Insel Johanna, 500–1 000 m, June–Aug. 1875', *J.M. Hildebrandt 1808* (B20 0127761!, holo.; P00075356!, iso.).

Distribution: Comores (Johanna Isl.), Madagascar.

**Selaginella fruticulosa** *(Bory ex Willd.) Spring* in Flora 21,13: 202, 203 (7 Apr. 1838).

*Lycopodium fruticulosum* Bory ex Willd., Species plantarum, edn 4, 5,1: 41, 42 (25–27 Jun. 1810).
Type: "insula Borboniae prope le grand bassin", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19395-01 0, holo.).
Note: Alston (1932c: 200) notes that the species is not present in Réunion.

Distribution: Réunion.

**Selaginella goudotiana** *Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 140 (1843a), as '*goudotana*', var. **goudotiana**.
Type: 'Hab. in insula Madagascar', *J.P. Goudot s.n.* (G, holo.; B20 0097414!, iso.).

*Lycopodiodes goudotiana* (Spring) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*S. madagascariensis* Baker in Journal of Botany, British and Foreign 1880: 372 (1880b).
Type: 'Between Tamatave and Antananarivo', *H. Gilpin s.n.* (K, lecto.), designated by Verdcourt (2005c: 19).

*L. madagascariense* (Baker) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*S. melleri* Baker in Journal of Botany, British and Foreign 1880,9: 372, 373 (1880b).
Type: Madagascar. 'Tanala', *L. Kitching s.n.* (K000351276!, syn.); Madagascar, on mountainous paths at Inbatomanga, *C.J. Meller s.n.* (K000351275!, lecto.), designated by Verdcourt (2005c: 19).

*S. magnusii* Hieron. in Die natürlichen Pflanzenfamilien 1,4: 686 (Nov. 1901).
Type: 'Centralmadagaskar', *J.M. Hildebrandt 3782* (B20 0097415, lecto.); designated by Verdcourt (2005c: 19), (B20 0097416, K, P00074212!, P00074213!, isolecto.); Madagascar, sud de Betsileo, forêt d'Ankafina, Centre, *J.M. Hildebrandt 4147* (K000351277, P00074210, P00074211, P00074215, P00074216, P00074217, P00074218, P00074219!, syn.).

Distribution: Madagascar.

**Selaginella goudotiana** *Spring* var. **abyssinica** *(Spring) Bizzarri* in Webbia 29,2: 585, fig. 9, t. a, b (1975).

*S. abyssinica* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 99 (1850).
Type: 'Hab. in Abyssinia', *R. Quartin-Dillon 9* (P00466602, lecto.), designated by Bizzarri (1975: 585); (P00466602!, isolecto.).

*S. kirkii* Baker in Journal of Botany, British and Foreign 1885: 176, 177 (1885a).
Type: 'Usagura Mountains, E. Trop. Africa', 08/1884, *J. Kirk s.n.* (K000351255!, holo., A only).

*Lycopodiodes kirkii* (Baker) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*S. preussii* Hieron. in Die natürlichen Pflanzenfamilien 1,4: 686 (Nov. 1901).
Type: In Kamerun, near Buea, 1 980–2 500 m, *P.R. Preuss 978* (B20 0121592!, lecto.), designated by Bizzarri (1975: 587); (P00466600!, isolecto.); "Kamerun: Buea", *P.R. Preuss 1035* (B20 0121591!, syn.).

*S. whytei* Hieron. in Die natürlichen Pflanzenfamilien 1,4: 697 (Nov. 1901).
Type: 'Im nördlichen Nyassaland', *A. Whyte s.n.*, ex herbario Sir Harry H. Johnston (B20 0121595!, holo.; K000351258, iso.).

*S. goetzei* Hieron. in Botanische Jahrbücher 30: 265, 266 (1902).
Type: 'Kingagebirge: an einem schattingen Erdriss am Kinyikaberg (zu dem Ukinjagebirge gehörig', *W. Goetze 941* (B20 0121594!, holo.; K000351254!, P00466601!, iso.).

*S. bueensis* Hieron. in Hedwigia 43: 20–22 (1904).
Type: 'Africa occidentalis: in silvis primaevis ad faucium rupes prope Buea, alt. s.m. 1 900–2 200 m, Oct. 1891', *P.R. Preuss 1079* (B20 0121590!, holo.; K000351231, iso.).

*S. molliceps* sensu Baker in Transactions of the Linnean Society of London, Botany, ser. 2, 2: 355 (1887b), non Spring (1850: 257).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Equatorial Guinea, Eritrea, Ethiopia, Ghana, Guinea-Bissau, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Somalia, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Selaginella gracillipes** *Alston* in Mémoires de la Sociéte Linnéene de Normandie 1,3: 80, 81 (1938b).
Type: 'Gabon: au passage de la Dounou, entre Digoungou et Tono, le 19 août 1910', *G.M.P.C. le Testu 1598* (P00065021, holo.; P00466598, P00466599, iso.).

Distribution: Congo, Equatorial Guinea, Gabon.

**Selaginella helicoclada** *Alston ex Alston* in Dansk Botanisk Arkiv 7: 195, t. 78, figs 10–12, 80 (Oct. 1932c).
Type: Madagascar. 'Vallée d'Ihosy, pentes rocailleuses (rochers siliceux), 850–1 000 m', *H. Humbert & C.F. Swingle 4915*, p.p. (BM000036087, holo.; BM000036088!, P026123!, P026124!, iso.).

*S. helicoclada* Alston in Catalogue des plantes de Madagascar. Pteridophyta: 71 (Feb. 1932b), nom. nud. [McNeill *et al.* (2006) Art. 41.3].

Distribution: Madagascar.

**Selaginella hildebrandtii** *A.Braun ex Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 697 (Nov. 1901).
Type: 'Comoren-Insel Johanna', *J.M. Hildebrandt 1807* (BM, holo.; B (4 sheets)!, K000351278, P00075396, P00075397, P00075398, P00075399, P00075400, P00075401, iso.).

*S. hildebrandtii* A.Braun ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 71 (Aug–Sep. 1879), nom. nud. [McNeill *et al.* (2006) Art. 41.3].
Type: "Comoro - Insel Johanna, 300–800 m", *J.H. Hildebrandt 1807* (P00075396!, P00075397!, P00075398!, P00075399!, P00075400, P00075401!, iso.).

*S. hildebrandtii* A.Braun ex Salomon, Nomenclator der Gefässkryptogamen: 353 (Oct. 1883), nom. nud.

Distribution: Comores (Johanna Isl.), Madagascar.

**Selaginella imbricata** *(Forssk.) Spring ex Decne* in Archives du Muséum d'Histoire Naturelle 2: 193, t. 7 (1841).

*Lycopodium imbricatum* Forssk., Flora aegyptico-arabica: CXXV, 187 (1 Oct. 1775).
Type: 'Yeen, Hadîe, ad Uahfât, 29/03/1763', *P. Forsskål s.n.* (C!, holo.; p.p. LD, iso.).

Distribution: Eritrea, Ethiopia, Kenya, Lesotho, Madagascar, Mozambique, Namibia, Somalia, South Africa, Sudan, Swaziland, Zambia, Zimbabwe.

**Selaginella involvens** *(Sw.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 136 (1843a).
Type: Japan, *C.P. Thunberg s.n.* (S, holo.).

Distribution: Tanzania, locally naturalised (Verdcourt 2005c: 15, 16).

**Selaginella kalbreyeri** *Baker* in Journal of Botany, British and Foreign 1884: 276, 277 (1884b).
Type: 'Cameroon mountains, 2500 ft.', *W. Kalbreyer 164* (K000351235!, holo.; B20 0130239, B20 0130240, B20 0130241, BM, iso.).

Distribution: Bioko, Cameroon, Congo, Côte d'Ivoire, DRC, Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Liberia, Nigeria, Sierra Leone, Togo, Uganda.

**Selaginella kivuensis** *Bizzarri* in Bulletin du Jardin Botanique National de Belgique 53,1/2: 174, 176, fig. 2 (30 Jun. 1983b).
Type: 'Irangi, 2500 ft, rain forest, in fairly dry conditions on shaded river bank, 19.VIII.1959', *Cambridge Congo Exped. 326* (BR, holo.).

Distribution: DRC, Equatorial Guinea.

**Selaginella kraussiana** *(Kunze) A.Braun*, Appendix plantarum novarum in Horto regio botanico coluntur 1857: 22, 23 (1857).

*Lycopodium kraussianum* Kunze in Linnaea 18: 114 (1844b).
Type: 'Ad portum Natalensem inter Omfodi et Tagela in sylvis umbrosis humidid, et in coronis rupiu saxia adpressum, nec non in faucibus umbrosis sylvarum prope rivulum haud procul a Chakas-Kraal', *W. Gueinzius s.n.* (K000351291!, lecto.), designated by Bizzarri (1975: 577); (B20 0077906, B20 0120788, B20 0120789, FI, P00507720!, W, isolecto.); Natal, *C.F.F. Krauss 748* (P00466573!, isosyn.).

*Lycopodiodes kraussianum* (Kunze) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*Didiclis kraussiana* (Kunze) Rothm. in Feddes Repertorium 54,1: 71 (30 Sep. 1944).

*S. hortensis* Mett., Filices horti botanici lipsiensis: 125, 128 (May–Jun. 1856a).
Type: Cultra in Horto Botanico Lipsiensi, *sine coll. s.n.* (LZ†; K, lecto.), designated by Bizzarri (1975: 577); (B20 0120828, isolecto.).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Equatorial Guinea, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

**Selaginella leoneensis** *Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 697 (Nov. 1901).
Type: 'In der Serra Leone in Liberia, 19 Nov. 1889', *W.H. Brown & A.H. Brown 79* (B20 0077905, holo.; K000351233!, P00466597!, iso.).

Distribution: Cameroon, Côte d'Ivoire, Gabon, Guinea, Liberia, Nigeria, Sierra Leone.

**Selaginella lewalleana** *Bizzarri* in Webbia 51,1/2: 222, 223 (30 Jun. 1981).
Type: 'Rwanda, forêts de Nyungwe (Cyangugu) Pindurafrontière du Burundi, km. 22, alt. env. 1 730 m, forêt de montagne, en sous-bois et sous le couvert d'autres espèces herbacées, 27.VII.1974', *Auquier 3490* (LG, holo.; BR, GENT, FI-PS, iso.).

Distribution: Burundi, Rwanda.

**Selaginella lyallii** *(Hook. & Grev.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 146 (1843a).

*Lycopodium lyallii* Hook. & Grev., Botanical Miscellany 2: 387 (1831).
Type: 'Madagascar', *R. Lyall 265* (K000351270!, holo.).

*S. laevigata* (Lam.) Baker var. *lyallii* (Hook. & Grev.) Baker in Journal of Botany, British and Foreign 23: 116 (1885a).

Distribution: Madagascar.

**Selaginella mannii** *Baker* in Journal of Botany, British and Foreign 23: 180 (1885a).
Type: 'Island of St Thome, West Tropical Africa, alt. 5000 ft.', *G. Mann 1108* (K000351241!, holo.).

Distribution: Príncipe, São Tomé.

**Selaginella marinii** *S.Stefanović & Rakotondr.* in Novon 6,2: 205, fig. 1c, d, map 3a (24 Jun. 1996).
Type: 'Madagascar, Antsiranana, Reserve Speciale de Manongarivo, Mt. Antsatrotro, 14°06'S, 48°25'E, 1 220 m, 20 May 1992', *F. Rakotondrainibe 1677* (P026159!, holo.).

Distribution: Madagascar.

**Selaginella membranacea** *(Desv.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 225 (1843b).

*Lycopodium membranaceum* Desv. ex Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 551 (3 Sep. 1814).
Type: 'Cette plante croît dans l'Amerique méridionale', *sine coll. s.n.* (not located).

Distribution: Mauritius, Réunion.

**Selaginella mittenii** *Baker* in Journal of Botany, British and Foreign 21: 81 (1883a).
Type: 'Tanzania, Usagura Mountains, 01/1883', *J. Hannington s.n.* (K000351253!, holo.; B20 0130251!, iso.).

*Lycopodioides mittenii* (Baker) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*Selaginella cooperi* Baker in Journal of Botany, British and Foreign 1884: 89, 90 (1884b).
Type: 'Orange Free State', *A.M. Cooper 1056* (K000351290!, holo.; B20 0130231, BM, iso.).

*L. cooperi* (Baker) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*Selaginella mackenii* Baker in Journal of Botany, British and Foreign 1884: 89 (1884b).
Type: 'Banks of the Tugela river', *P. Gerrard & M.J. McKen 237* (K000351288!, holo.; B20 0130249!, iso.).

*L. mackenii* (Baker) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*Selaginella tectissima* Baker in Journal of Botany, British and Foreign 1884: 89 (1884b).
Type: 'Macalisberg mountains', *J. Sanderson s.n.* (K!, holo.; B, iso.).

*Selaginella welwitschii* Baker in Journal of Botany, British and Foreign 1883: 81, 82 (1883a).
Type: 'Angola, on dry rocks of the Pedras of Pungo Andongo', *F.M.J. Welwitsch 43* (K000351269!, holo.; BM, P00522430, iso.).

*L. welwitschii* (Baker) Kuntze, Revisio generum plantarum 2: 827 (5 Nov. 1891).

*Stachygynandrum welwitschii* (Baker) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

*Stachygynandrum depressum* (A.Braun) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

*Selaginella depressa* (Sw.) Spring var. β *minor* A.Braun in Kuhn, Filices africanae: 211 (Oct. 1868).
Type: 'Angola, ad rupes gneisiacas apricas in summis montibus', *F.M.J. Welwitsch 43* (B!, BM, K000351269!, P00522430, syn.); Angola, prope Pungo Andongo, in cryptis et ad latera umbrosa rivulorum', *F.M.J. Welwitsch 44* (B!, syn.).

*Selaginella cathedrifolia* Spring var. *minor* (A.Braun ex Kuhn) Baker in Journal of Botany, British and Foreign 1883: 82 (1883a).

*Stachygynandrum depressum* (A.Braun) Carruth. var. *minus* (A.Braun) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

*Selaginella depressa* sensu Sim, The ferns of South Africa, edn 2: 334, pl. 168, figs c–e (1915), non Spring (1843b: 234).

Distribution: Angola, Burundi, DRC, Kenya, Lesotho, Malawi, Mozambique, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Selaginella molleri** *Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 697 (Nov. 1901).
Type: 'auf der Insel São Tomé', *A. Moller 79*, p.p. (BM, holo.; B!, COI, K000351244!, LISU, P (4 sheets), iso.).

Distribution: Bioko, Liberia, Nigeria, São Tomé.

**Selaginella molliceps** *Spring* in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 257 (1850).
Type: Príncipe, 'Hab. in Africa occidentali', *A.B. Curror s.n.* (K000351246!, holo.; B20 0130270, K00351245!, iso.).

*Lycopodiodes molliceps* (Spring) Kuntze, Revisio generum plantarum 2: 826 (5 Nov. 1891).

*Selaginella molliceps* Spring var. *major* A.Braun ex Hieron. in Hedwigia 43: 58 (1904).

*Stachygynandrum rubricaule* (R.Sim) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

*Selaginella rubricaulis* R.Sim var. *angolensis* A.Braun ex Kuhn, Filices africanae: 212 (Oct. 1868).
Type: 'Angola, distr. Golungo alto, in muscosis maxime umbrosis repestribus juxta rivulum de Capopa', *F.M.J. Welwitsch 47* (BM!, K000351262, K000351267, P00507725!, syn.); 'In Insula Príncipis (Ilha de Principe), in sinu Biafra, in silvis primitivis editioribus maxime umbrosis montis Pico de Papagaio', *F.M.J. Welwitsch 11* (BM!, K000351263, K000351266, P00507724!, syn.).

*Stachygynandrum rubricaule* (R.Sim) Carruth. var. *angolense* (A.Braun ex Kuhn) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Comores, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Nigeria, Príncipe, São Tomé, Togo, Uganda.

**Selaginella monodii** *Alston* in Bulletin de l'Institut Française d'Afrique Noire 21: 440 (1959a).
Type: 'S. Tomé, Blu-blu waterfall, near the town', *T. Monod 11806* (BM, holo.; COI, iso.).

Distribution: São Tomé.

**Selaginella moratii** *Rauh & W.Hagemann* in Plant Systematics and Evolution 176,3/4: 205, 206, figs 1–24 (1991).
Type: Madagascar centralis: Terricola inter caespitem *Coleochlae setiferae* (Cyperaceae) in solo humoso collium graniticorum prope oppidulum Fanarantsoa, 1 200 m. s. m., 16 Aug. 1963, *W. Rauh 10727* (P026161, holo.; HEID, iso.).

Distribution: Madagascar.

**Selaginella myosurus** *(Sw.) Alston* in Journal of Botany, British and Foreign 70: 64 (1932a).

*Lycopodium myosurus* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 118 (1801).
Type: "Sierra Leone", *A. Afzelius s.n.* (B20 0132060, B20 0130262, iso.).

*Stachygynandrum scandens* P.Beauv. in Magazin Encyclopédique, ou Journal des Sciences, des Lettres et des Arts 5,20: 483 (1804).
Type: 'In regno Oware, ad ripas fluminis Formose', *A.M.F.J. de Pallisot de Beauvois s.n.* (P-JU 705, holo.; B20 0130260, fragm., isolecto.).

*Selaginella scandens* (P.Beauv.) Spring in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 226 (1843b).

*Lycopodiodes scandens* (P.Beauv.) Kuntze, Revisio generum plantarum 2: 827 (5 Nov. 1891).

Distribution: Angola, Bioko, Cameroon, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Kenya, Liberia, Nigeria, Príncipe, Senegal, Sierra Leone, Togo, Zaire.

**Selaginella nivea** *Alston ex Alston* in Dansk Botanisk Arkiv 7: 194, t. 78, figs 1–4 (Oct. 1932c), subsp. **nivea**.
Type: Madagascar. 'Sous-bois; entre les arbustes du Bush à Euphorbe et Didieria, environs d'Ampanihy, Juin 1910', *H. Perrier de la Bâthie 8303* (BM!, holo.; P026001!, P026002!, P00466596, iso.).

Distribution: Botswana, Madagascar, Mozambique, Zimbabwe.

**Selaginella nivea** *Alston ex Alston* subsp. **humbertii** *S.Stefanović & Rakotondr.* in Novon 6,2: 207, figs 1e, 2e, f, map 3a (24 Jun. 1996).
Type: 'Madagascar. Ouest Betsileo: à l'ouest de l'Itremo [Massif de l'Itremo, 20°36'S, 46°39'E], 1 500–1 700 m, 17–22 Apr. 1955', *H. Humbert 28366* (P026031!, holo.).
*S. nivea* Alston in Catalogue des plantes de Madagascar. Pteridophyta: 71 (Feb. 1932b), nom. nud.

Distribution: Madagascar.

**Selaginella njamnjamensis** *Hieron.* in Hedwigia 39: 312, 313, fig. 28 (1900b), as '*njam-njamensis*'.
Type: 'Africa centralis: crescit in regione gentium Njam-Njam, 1870', *G.A. Schweinfurth s.n.* (B20 0130267!, holo.; B20 0003490!, NY, K000351234!, P00466594!, P00466595!, Z000005289, isolecto.).
*Bryodesma njamnjamensis* (Hieron.) Soják in Preslia 64,2: 154 [1992] (1993).

Distribution: Angola, Benin, Botswana, Cameroon, Central African Republic, DRC, Malawi, Mali, Mozambique, Nigeria, Sudan, Tanzania, Uganda, Zambia.

**Selaginella nubigena** *J.P.Roux* in Bothalia 38: 154 (2008a).
Type: South Africa, KwaZulu-Natal, Royal Natal National Park, on near vertical, much-weathered, basalt cliff, NE aspect, along path up to ridge leading to the Sentinel, ± 2 430 m [8 000 ft.], (2828DB),10 July 1963, *E. Esterhuysen 30228* (BOL!, holo.; PRE!, iso.).

Distribution: South Africa.

See Plate 1E.

**Selaginella obtusa** *(P.Beauv.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 228 (1843b).
*Stachygynandrum obtusum* P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 113 (10 Jan. 1805).
Type: 'l'Ile de France', *J.B.G.M. Bory de St.-Vincent s.n.* (not located).

Distribution: Mauritius, Réunion.

**Selaginella pallescens** *(C.Presl) Spring* in Flora brasiliensis 1,2: 132 (1840).
*Lycopodium pallescens* C.Presl, Reliquiae haenkeanae 1: 79 (1825).
Type: 'Hab. in Mexico', *T. Haenke s.n.* (PR, holo.).

Distribution: Tanzania, naturalised (Verdcourt 2005c: 15).

**Selaginella perpusilla** *Baker* in Journal of Botany, British and Foreign 1885: 292 (1885a).
Type: 'Nyika Country, E. Trop. Africa', Wakefield, T., comm. *J.A. Grant s.n.* (K000351257!, holo.; B20 0130264!, BM, iso.).

Distribution: DRC, Kenya, Madagascar, Malawi, Tanzania, Zanzibar, Zimbabwe.

**Selaginella pervillei** *Spring* in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 169, 170 (1850).
Type: 'Hab. in insula Madagascar [Nos-Beh, secus rivulos]', *A. Pervillé 403* (LG, holo.; B20 0130263, B20 0130265, B20 0130266, P00026215!, iso.).
*Lycopodioides pervillei* (Spring) Kuntze, Revisio generum plantarum 2: 825 (5 Nov. 1891).

Distribution: Madagascar.

**Selaginella phillipsiana** *(Hieron.) Alston* in Journal of Botany, British and Foreign 77: 222 (Aug. 1939a).
*S. wightii* Hieron. var. *phillipsiana* Hieron. in Hedwigia 39: 320 (1900b).
Type: 'Africa orientalis: in territorio Somali, Junio 1895', *L. Phillips s.n.* (B20 0130257!, holo.; K000351249!, P00466574!, iso.).

Distribution: Ethiopia, Kenya, Somalia, Tanzania, Uganda.

**Selaginella plana** *(Poir.) Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 703 (Nov. 1901).
*Lycopodium planum* Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 554 (3 Sep. 1814).
Type: 'grand forêts des Indes orientale', *sine coll. s.n.* (P, holo.).
Note: listed by Johns (1991: 109) from Tanzania. Naturalised in Tanzania and Zanzibar (Verdcourt 2005c: 13).

Distribution: Tanzania, Zanzibar, adventive. Originally from India, Malay Peninsula, Java, Sumatra and Amboina.

**Selaginella polymorpha** *Badré* in Flore de Madagascar et des Comores, 14e Famille Sélaginellacées: 25 (1997), nom. nov. for *Selaginella laevigata* (Lam.) Baker, non (Willd.) Spring (1840: 125).
*Lycopodium laevigatum* Lam. in Encyclopedie méthodique, Botanique 3,2: 652 (13 Feb. 1792), non Willd. (1810: 45).
Type: 'Dans l'Isle Madagascar', *P. Commerson s.n.* (P-LA, holo.).
*Stachygynandrum laevigatum* (Lam.) P.Beauv., Prodrome des cinquième et sixième familles de l'Aethéogamie: 110 (10 Jan. 1805).
*Selaginella laevigata* (Lam.) Baker in The Gardeners' Chronicle and Agricultural Gazette 47: 1190, 1191 (23 Nov. 1867g), nom. illeg., non. (Willd.) Spring (1840: 125).
*L. pectinatum* Willd., Species plantarum, edn 4, 5,1: 44 (25–27 Jun. 1810), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Lam. (1792: 651).
Note: B-W 19400-0 0 gives the locality of *Lycopodium pectinatum* as 'Habitat in Madagascaria' while the publication gives it as 'Habitat in America meridionali'.
*Selaginella pectinata* (Willd.) Spring in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 146 (1843a), comb. illeg.

*Selaginella laevigata* (Lam.) Baker var. *brachystachys* Hieron. in Die natürlichen Pflanzenfamilien 1,4: 707 (Nov. 1901).
Type: 'Nordmadagaskar', *sine coll. s.n.* (not located).

*Selaginella pectinata* (Willd.) Spring var. *curvifolia* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 167 (1850).
Type: 'Madagascar', *sine coll. s.n*. (P, holo.).

Distribution: Madagascar.

**Selaginella protensa** *Alston* in Mémoires de l'Institut Français d'Afrique Noire 50: 41 (1957b).
Type: 'Côte d'Ivoire: tête de ravin de Zonque, paroi rocheuse, 1 575 m, Nimba N', *R. Portères s.n.* (P00466593!, holo.).

Distribution: Cote d'Ivoire, Liberia.

**Selaginella proxima** *R.M.Tryon* in Annals of the Missouri Botanical Garden 42,1: 56, figs 33–35, map 37 (Feb. 1955).
Type: Madagascar. 'Vicnity of Fort Dauphin, near Bevilany, 200–300 m., Sept. 14, 1928', *H. Humbert & Ch.F. Swingle 5705* (US, holo.; GH, P00026012!, P00026013!, P00026014!, iso.).

Distribution: Madagascar.

**Selaginella pygmaea** *(Kaulf.) Alston* in Journal of Botany, British and Foreign 69: 257 (1931b).
*Lycopodium pygmaeum* Kaulf., Enumeratio filicum: 9, 10 (Oct. 1824).
Type: 'Habitat in Promontorio bonae spei ad radicem montis diaboli', *C.H. Bergius s.n.* (B!, holo.).

*Lycopodium pumilum* Schltdl. var. *pygmaeum* (Kaulf.) Schltdl., Adumbrationes plantarum 1: 6, pl. 3, fig. 2a–d (May 1825a).

*Lycopodiodes pygmaeum* (Kaulf.) Kuntze, Revisio generum plantarum 2: 825 (5 Nov. 1891).

*Lycopodium pumilum* Schltdl., Adumbrationes plantarum 1: 6, pl. 3 (May 1825a), nom. abort.
Type: 'In Promontorio bonae spei ad radicem montis diaboli in latere occidentali in solo argillaceo, Novembri', *C.H. Bergius s.n.* (B!, syn.—2 packets on different sheets); 'Octobri mense ad lacum Neisna', *J.L.L. Mund et L. Maire s.n.* (B!, syn.).

*Lycopodium bryoides* Kaulf., Enumeratio filicum: 10 (Oct. 1824).
Type: 'Habitat in Promentorio bonae spei', *C.H. Bergius s.n*. (B!, holo.).

*Lycopodium pumilum* Schltdl. var. *bryoides* (Kaulf.) Schltdl., Adumbrationes plantarum 1: 6, pl. 3, fig. 1a–d (May 1825a).

*S. bryoides* (Kaulf.) Hieron. in Die natürlichen Pflanzenfamilien 1,4: 699 (Nov. 1901).

*S. pumila* (Schltdl.) Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 60, 61 (1850).

*S. pumila* (Schltdl.) Spring var. *ramosa* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 61 (1850), nom. abort.
Type: Based on *Lycopodium pumilum* Schltdl. var. *bryoides* (Kaulf.) Schltdl.

*S. pumilum* (Schltdl.) Spring var. *subsimplex* Spring in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 61 (1850), nom. abort.
Type: Based on *Lycopodium pygmaeum* Schltdl.

Distribution: South Africa.

**Selaginella raynaliana** *Tardieu* in Adansonia 3,3: 353, pl. 1, figs 1–9 (1963).
Type: 'Ebolowa, Cameroon', *J. & A. Raynal 10361* (P00466592!, holo.; P00466590!, P0046691!, iso.).

Distribution: Cameroon.

**Selaginella rodriquesiana** *Baker*, Flora of Mauritius and the Seychelles: 523 (2 Aug. 1877b).
Type: "Rodrigues, Aug.–Dec. 1874", 'common on damp grassy banks', *I.B. Balfour s.n.* (K000351286!, holo.; BM, iso.).

Distribution: Rodriques Isl.

**Selaginella sambiranensis** *S.Stefanović & Rakotondr.* in Adansonia, sér. 3, 19,1: 166, figs 1, 2 (1997).
Type: 'Madagascar, vallée du Marofotra, base du Mt. Bekolosy, massif du Manongarivo, Sambirano, Mar. 1909', *H. Perrier de la Bâthie 8291* bis (P00075413, holo.!; BM, iso.).

Distribution: Madagascar.

**Selaginella sechellarum** *Baker*, Flora of Mauritius and the Seychelles: 523 (2 Aug. 1877b).
Type: 'Seychelles, Mahé', *J. Horne 157* (K000351287!, holo.; BM!, iso.).

*Lycopodiodes sechellarum* (Baker) Kuntze, Revisio generum plantarum 2: 827 (5 Nov. 1891).

Distribution: Seychelles (Mahé).

**Selaginella serrato-squarrosa** *Quansah* in Fern Gazette 13,5: 282, figs 1, 2 (1989).
Type: "Logbatjeck, région d'Edea (Cameroun), 28 avril 1948", *M. Nicklès 102* (P00466589!, holo.).

Distribution: Cameroon.

**Selaginella serrulata** *(Desv.) Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 228 (1843b).
*Lycopodium serrulatum* Desv. ex Poir., Encyclopedie methodique, Supplementum 3,2: 550 (1814).
Type: 'l'île Bourbon', *Desvaux* (P, holo.).

Distribution: Mauritius, Réunion.

**Selaginella shabaensis** *Bizzarri* in Webbia 36,1: 204, 206, fig. 1 [1982] (1983a).
Type: 'Africa equatorialis. M'pala ad littus occidentale lacus Tanganjika. 1898', *Guillemé s.n.* (FI, holo.; B20 0130236, P00466588!, iso.).

Distribution: DRC.

**Selaginella sinuosa** *(Desv.) Alston* in Journal of Botany, British and Foreign 72: 230 (Aug. 1934b).
*Lycopodium sinuosum* Desv. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 558 (3 Sep. 1814).
Type: 'In insulâ Borboniae', *sine coll. s.n.* (P00483535, holo.).

*S. surculosa* Spring in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 144 (1843a).
Type: 'Hab. in insula Borboniae', *H.M. Richard s.n.* (not located); sine loc. *C. Gaudichaud-Beaupré s.n.* (not located).

Distribution: Réunion.

**Selaginella soyauxii** *Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 697, 698 (Nov. 1901).
Type: Gabon, près Munda, Sibange farm, *H. Soyaux 419* (B20 0130256!, lecto.), designat-

ed by Verdcourt (2005c: 20); (B20 0077902!, B20 0130258!, K000351238!, P00466583!, P00466584!, P00466586!, isolecto.); "Auf der Kafferfeldern der Sibange-farn bei Gabun, West-Afrika, 26-28.II. 1890", *M. Dinklage 563* (B20 0077903!, syn.); "Senssodri, Quaqua, Dec. 74", *C. Buchholz s.n.* (B20 0077900!, B20 0077904!, K000351240!, P00477916!, syn.).

Distribution: Benin, Bioko, Burundi, Cameroon, Côte d'Ivoire, DRC, Gabon, Guinea, Liberia, Rwanda, Sierra Leone, Uganda.

**Selaginella squarrosa** *Baker* in Journal of Botany, British and Foreign 1885: 180 (1885a).
Type: 'Cameroon Mountains, alt. 4000 feet', *G. Mann 1407* (K000351241!, holo.; B20 0130252!, syn.); 'Sierra de Crystal', *G. Mann 1638* (not located); 'Cameroon', *M. Nicklès 102* (not located).

Distribution: Cameroon, Equatorial Guinea, Príncipe.

**Selaginella subcordata** *A.Braun ex Kuhn*, Filices africanae: 193 (Oct. 1868).
Type: "Habit. ad umbrosus in montis supra 'Freetown' in Colonia Sierra Leone, Sept. 1853", *F.M.J. Welwitsch 3* (BM, holo.; B20 0130253, K000351232, P00466587!, iso.).

*Stachygynandrum subcordatum* (A.Braun) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

Distribution: Congo, Côte d'Ivoire, Equatorial Guinea, Guinea, Guinea-Bissau, Liberia, Sudan.

**Selaginella subisophylla** *Jermy* in British Fern Gazette 10,1: 30, figs 1–9 (27 Sep. 1968).
Type: 'Zambia, Kawambwa District, Kawambwa, Timnatushi Falls, in wet white sand, 1 260 m alt., 19 April 1957', *H.M. Richards 9325* (BM, holo.; K000351268!, iso.).

Distribution: DRC, Zambia.

**Selaginella tenerrima** *A.Braun ex Kuhn*, Filices africanae: 193, 194 (Oct. 1868).
Type: 'Angola, Distr. Golungo Alto, ad rivulos in silvis primitivis editioribus de Serra de Alta Queta', *F.M.J. Welwitsch 45* (B!, holo.; BM, K000351260!, LISU, P00507721!, iso.).

*Stachygynandrum tenerrimum* (A.Braun ex Kuhn) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61: 2,2: 262 (Mar. 1901).

Distribution: Angola, Burundi, Cameroon, Central African Republic, DRC, Ethiopia, Gabon, Guinea, Mali, Mozambique, Nigeria, Rwanda, Sudan, Tanzania, Uganda, Zambia.

**Selaginella tereticaulis** *(Desv.) Spring* in Flora 21,14: 210 (14 Apr. 1838).

*Lycopodium tereticaulon* Desv. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 551, 552 (3 Sep. 1814).
Type: 'Cette plante croît dans l'île Maurice', *A.N. Desvaux s.n.* (B-W 19403!, holo.).

Distribution: Mauritius.

**Selaginella thomensis** *Alston* in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 97, fig. 3 (1 Sep. 1944).
Type: São Tomé. 'Vanhulst (Macambrará), 1 080–1 230 m., in virgin forest', *A.W. Exell 423* (BM, holo.; COI, iso.).

Distribution: Cameroon, Nigeria, São Tomé, Sierra Leone.

**Selaginella umbrosa** *Lem. ex Hieron. & Sadeb.* in Hieronymus in Die natürlichen Pflanzenfamilien 1,4: 683, fig. 404 (Nov. 1901).
Type: 'von Guatemala bis nach Panama verbreitet, aber auch auf der Insel Tabago, vermutlich daher auch in Venezuela und Guiana zu finden; seit 50 Jahren in Kultur in den Gewächshäusern der botanischen Gärten', *sine coll. s.n.* (B, syn.).

Distribution: Tanzania, adventive (Verdcourt 2005c: 12, 13). Originally from Yucatan and Belize to Colombia, also in W. Indies.

**Selaginella unilateralis** *Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,2/3: 232 (1843b).
Type: 'Hab. in ins. Madagascar', *A.C.J. Bernier s.n.* (P00075379!, holo.; P00075378!, P00075380!, iso.).

Distribution: Madagascar.

**Selaginella vanderystii** *Bizzarri* in Bulletin du Jardin Botanique National de Belgique 53,1/2: 171, 172, fig. 1 (30 Jun. 1983b).
Type: 'Kipasa, 1932–1933', *H. Vanderyst 37096* (BR, holo.).

Distribution: DRC.

**Selaginella versicolor** *Spring* in Bulletins de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles 10,1: 143 (1843a).
Type: 'Hab. in Senegambia', *J. Heudelot 704* (G, holo.; B20 0130255!, LG, P00466575!, P00466576!, iso.).

*Stachygynandrum versicolor* (Spring) Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 262 (Mar. 1901).

*Selaginella nitens* Baker in Journal of Botany, British and Foreign 1885: 48 (1885a).
Type: 'Fernando Po', *G. Mann 149 bis* (K000351228!, lecto.), designated by Verdcourt (2005c: 11); 'Cameroon Mountains', *W. Karlbreyer s.n.* (K000351229!, syn.).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Malawi, Nigeria, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Nigeria.

**Selaginella vogelii** *Spring* in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 24: 170, 171 (1850).
Type: 'Hab. in insula Fernando-Po, fr. Nov.', *S. Vogel s.n.* (K000351227!, holo.; P00466572!, iso.).

*S. africana* A.Braun, Appendix plantarum novarum in Horto berolensi 1857: 19 (1857).
Type: Cult. in Hort. Berol., believed to be from Africa, *sine coll. s.n.* (B!, holo.).

*S. dinklageana* Sadeb. in Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten 14, Beiheft 3: 16 (1897).
Type: Cameroons. 'Ebeafälle des Lokundje, 3.X.1890', *M.J. Dinklage 241* (HBG, holo.).

Distribution: Angola, Benin, Bioko, Cameroon, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Nigeria, Sierra Leone, Tanzania, Zanzibar.

**Selaginella volubilis** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 25 (1956a).
Type: 'Angola: climbing on shrubs and tall grass, Saurimo, tributary of R. Chicapa', *R.G.N. Young 637* (BM, holo.).

Distribution: Angola, Bioko.

**Selaginella wightii** *Hieron.* in Hedwigia 39: 319, 320 (1900b).
Type: "Peninsula Ind. orientalis", *Wight 15* (B20 0146981, lecto.), designated by R.M. Tryon (1955: 39); "Peninsula India Orientalis", *Wight 3194* (B20 0146981, syn.).

*S. wightii* Hieron. var. *vetusta* Hieron. in Hedwigia 39: 320 (1900b).
Type: 'In insula Mauritius', *F.W. Sieber s.n.* (B!, holo.).
Note: cited by Johns (1991: 109) as occurring in Tanzania, but not reported by Verdcourt (2005c).

Distribution: Mauritius.

**Selaginella yemensis** *(Sw.) Spring ex Decne.* in Archives du Muséum d'Histoire Naturelle 2: 191 (1841).

*Lycopodium yemense* Sw., Synopsis filicum: 182, 407, t. 4, fig. 4 (Mar.–Apr. 1806b).
Type: Yemen, Bulgose, "Habitat in Arabia felia", *P. Forsskål s.n.* (S, holo. [185/237 ex Herb. Swartz], B-W 19373!, fragment, C, LD, iso.).

*S. somaliensis* Baker in Journal of Botany, British and Foreign 1883: 82 (1883a).
Type: Somaliland, mts 1500–6000 ft, 'Mait', *J.M. Hildebrandt 1484* (K000351251, holo.; B, BM, C, P, W (not located), iso.).

*Lycopodiodes somaliense* (Baker) Kuntze, Revisio generum plantarum 2: 827 (5 Nov. 1891).

*Lycopodium sanguinolentum* Forssk., Flora aegyptiaco-arabica: CXXV (1775), non L. (1753: 1104).
Type: "Arabia felix: Montium region media. Bulgose, sive Hadîe. 2–22 Martii 1763". *Forsskål s.n.* (C, holo.).

Distribution: Ethiopia, Kenya, Somalia.

**Selaginella zechii** *Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 697 (Nov. 1901).
Type: 'Togo', near Kete Kratschi, 1900, *Count Zech 388* (not located).

Distribution: Ghana, Guinea, Togo.

# PTERIDOPHYTA *Schimp.* in Zittel, Handbuch der Palaeontologie 2,1: 1 (15 Sep. 1879)

## EQUISETOPSIDA *C.Agardh*, Classes plantarum 1: 7 (20 May 1825), as '*Equisetaceae*'

## EQUISETALES *DC. ex Bercht. & J.Presl*, O přirozenosti Rostlin: 271 (Jan.–Apr. 1820), as '*Equisetaceae*'

### EQUISETACEAE

**Equisetaceae** *Michx. ex DC.*, Essai sur les propriétés médicinales des plantes: 49 (Jul. 1804).
Note: mostly cited as: *Equisetaceae* Rich. ex DC. in Flore française, edn 3, 4,2: 580 (17 Sep. 1815b).

#### EQUISETUM

**Equisetum** *L.*, Species plantarum 2: 1061 (1 May 1753). Lectotype: *Equisetum fluviatile* L.

*Hippochaete* Milde in Botanische Zeitung (Berlin) 23,40: 297 (6 Oct. 1865c). Type: *Equisetum hyemale* L., designated by Hauke (1978:423).

*Equisetum* L. sect. *Hippochaete* (Milde) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 230 (1 Oct.–5 Nov. 1867). Type: *Equisetum hyemale* L.

*Equisetum* L. subgen. *Hippochaete* (Milde) Baker, Handbook of the fern-allies: 4 (Jul. 1887d). Type: *Equisetum hyamale* L.

*Hippochaete* Milde sect. *Ambigua* Farw. in Memoires of the New York Botanical Gardens 6: 464 (1916). Type: *Equisetum laevigatum* A.Braun.

*Equisetum* L. subgen. *Hippochaete* (Milde) Baker sect. *Ambigua* (Farw.) Hauke in American Fern Journal 52,1: 30, 31 (12 Apr. 1962a).

**Equisetum hyemale** *L.*, Species plantarum 2: 1062 (1 May 1753).
Type: 'Habitat in Europae sylvis, asperis, uliginosis', *sine coll. s.n.* (None designated).
Note: Hauke (1962b: 59) designated LINN 1241.7 as neotype but, with the existence of original material, this is contrary to Art 9.10 (McNeill *et al.* 2006).

Distribution: Algeria.

**Equisetum ramosissimum** *Desf.*, Flora atlantica 2,9: 398, 399 (Jul. 1799), subsp. **ramosissimum**.
Type: Tunisia, 'Habitat ad radices montis Zowan apud Tunetanos', *R.L. Desfontaines s.n.* (P, holo.).

*Hippochaete ramosissima* (Desf.) Bruhin in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 18: 758 (1868).

*E. campanulatum* Poir. in Encyclopedie méthodique, Botanique 5: 613 (9 Jan. 1804).
Type: Cites C. Bauhin, Prodromus theatri botanici: 24 (1671) and J.P. de Tournefort, Institutiones rei herbariae: 533 (1700).

*E. multiforme* Vaucher var. *campanulatum* (Poir.) Vaucher in Mémoires de la Société de Physique et d'Histoire Naturelle de Genève 1,2: 380, 381 [1822] (1821).

*E. ramosissimum* Desf. var. *campanulatum* (Poir.) Trevis. in Atti della Società Italiana di Scienze Naturali 17: 253 [1874] (1875).

*E. elongatum* Willd., Species plantarum, edn 4, 5,1: 8, 9 (25–27 Jun. 1810).
Type: 'Habitat Venetiis, inque Barbaria, in maritimis Bordigalae atque in Insula Borboniae', "Habitat in Venetür", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19336-01 0, holo.; P00466564!, iso.).

*E. thunbergii* Wikstr. in Kongliga Vetenskaps Akademiens Handlingar 1825: 361, 362 (1821).
Type: 'Hab. ad Promontorium bonae spei', *C.P. Thunberg s.n.* (UPS, holo.).

*E. burchellii* Vaucher in Mémoires de la Société de Physique et d'Histoire Naturelle de Genève 1,2: 375, t. 10 [1822] (1821).
Type: 'Africa australis extratropica', *W.J. Burchell 2464* (B 2 sheets!, syn.; K!, isosyn.); 'Regio litor. 15° lat. Austr. Distr. Mossamedes. Frequens in uliginosis Cyperetis et Arundinetis ad ostia fluminis Giraul agri Mossamedenis, 18 July 1859', *F.M.J. Welwitsch 176* (BM 2 sheets!, syn.).

*E. ramosissimum* Desf. var. *burchellii* (Vaucher) Milde in Nova Acta Leopoldina 32,2: 443 (1865b).

*E. ramosissimum* Desf. var. *virgatum* A.Braun in Flora 22,20: 308 (1839), nom. nud.

*E. elongatum* Willd. var. *simplex* Döll, Flora des Grossherzogthums Baden 1,1: 66 (Mar.–Jun. 1855).
Type: 'Eine Stunde unterhalb Mannheim auf Sandfeldern und in lichtem Föhrenwalde', *sine coll. s.n.* (not located).

*E. ramosissimum* Desf. var. *simplex* (Döll) Milde, Die höheren Sporenpflanzen Deutschland's und der Schweiz: 118 (Mar. 1865a).

*E. ramosissimum* Desf. var. *capense* Milde in Nova Acta Leopoldina 32,2: 442 (1865b).
Type: 'Promont. Bonae Spei, 1844', *J.F. Drège & C.L.P. Zeyher s.n.* (B20 0122303!, lecto.), here designated.

*E. ramosissimum* Desf. subsp. *ramosissimum* L. var. *altissimum* A.Braun ex Milde, Die höheren Sporenpflanzen Deutschland's und der Schweiz: 117 (Mar. 1865a).
Type: 'Nur im Süden. Meran', *C.A.J. Milde s.n.* (not located); 'Bozen', *F. von Hausmann s.n.* (not located); 'Misox in Graubündten', *A. Moritzi s.n.* (not located); 'Aostathal', *Hausknecht s.n* (not located); 'aber selbst auf den Färöer-Inseln', *Trevelyan s.n.* (not located).

*E. ramosissimum* Desf. var. *dregeanum* Milde in Nova Acta Leopoldina 32,2: 447 (1865b).
Type: 'Promont. bonae Spei', *C.P. Thunberg s.n.* (UPS, holo.); 'Promont. bonae Spei', *J.F. Drège s.n.* (not located).

*E. ramosissimum* Desf. var. *lohseanum* Milde in Nova Acta Leopoldina 32,2: 446, 447 (1865b).
Type: Sine loc., *H. Lohse s.n.* (LZ?, holo.).

*E. ramosissimum* Desf. var. *arcuatum* Milde in Nova Acta Leopoldina 32,2: 448 (1865b).
Type: 'Promont. bonae Spei, ad rivum parvum prope Gekan', *J.F. Drège s.n.* (LZ†, holo.).

*E. ramosissimum* Desf. var. *abyssinicum* Milde in Nova Acta Leopoldina 32,2: 448, 449 (1865b).
Type: 'Abyssinica. Ad rivos prope Adoa, 1 Decbr. 1837', *A.F.W. Schimper 929* (B 3 sheets!, holo.).

*E. ramosissimum* Desf. var. *flagelliferum* Milde in Nova Acta Leopoldina 32,2: 449 (1865b).
Type: 'Ad margines aqueductum urbis Palmarum et alibi insulae Teneriffa', *sine coll. s.n.* (Fl, syn.); 'Natal, in palud. ripae Togela fluvii', *W. Gueinzius s.n.* (W, syn.).

*E. ramosissimum* Desf. var. *boryanum* A.Braun ex Milde in Nova Acta Leopoldina 32,2: 450, 451 (1865b).
Type: 'Ins. Bourbon und France in Afrika', *J.B.G.M. Bory de St.-Vincent s.n.* (B!, lecto.), here designated.
Note: the specimen here designated as lectotype is an unnumbered sheet with a label in the hand of Braun identified as "*Equisetum Boryanum* mihi". The material originates from "Ile Bourbon". The labels provide no indication of the collector, but Milde gives the collector as Bory de St.-Vincent.

*E. ramosissimum* Desf. var. *distortum* Milde in Nova Acta Leopoldina 32,2: 451 (1865b).
Type: 'Promontorium bonae spei', *J.L.L. Mund & L. Maire s.n.* (B20 0122296!, holo.; B20 0012230!, B20 0122297!, iso.).

*E. ramosissimum* Desf. var. *boivinii* Milde in Nova Acta Leopoldina 32,2: 452 (1865b).
Type: 'Ins. Bourbon', *L.H. Boivin s.n. (et P. Commerson)*. (B!, holo.).

*E. ramosissimum* Desf. var. *natalense* Milde in Nova Acta Leopoldina 32,2: 452 (1865b).
Type: 'Natal-Küste', *W. Gueinzius s.n.* (B!, holo.; B20 0122298!, iso.).

*E. ramosissimum* Desf. var. *subverticillatum* Luerss. ex Asch. & Graebn., Synopsis der mitteleuropäischen Flora 1,2: 140 (1 Aug. 1896b).
Note: Ascherson & Graebner cite 'Flora 22: 308 (1839)' (see Braun 1939) under this name. Braun on pages 306 and 308 lists this as a variety of *E. ramosum* and included as synonyms *E. ramosissimum* Desf., *E. elongatum* Willd. and *E. procerum* Pollini.

Distribution: Algeria, Angola, Botswana, Burundi, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago); Comoro Isl. (Grande Comore, Mayotte), DRC, Egypt, Ethiopia, Kenya, Lesotho, Liberia, Lybia, Madagascar, Malawi, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Somalia, South Africa, Sudan, Swaziland, Tanzania, Tunisia, Uganda.

See Plate 1F.

**Equisetum telmateia** *Ehrh.* in Hannoverisches Magazin 21: 287 (1783).
Type: Near Hannover, Germany, 1781, *F. Ehrhart s.n.*, ex Wendland herbarium (GOET, lecto.), designated by Hauke (1978: 433).
Note: Ehrhart's article starts in issue 12 (10-02-1783), column 177 of the Hannoverisches Magazin, and continues to issue 19 (7-03-1783), column 296. The description of *E. telmateia* appears in issue 18 (3-03-1782), column 287, as footnote 31. The sentence mentioning the footnote starts in column 286 of issue 12 and continues to column 287 where *E. telmateia* is mentioned. Footnote 32 gives the diagnosis and lists some pre-Linnean synonyms (Braeuchler pers. comm.).

*E. maximum* Lam., Flore française 1: 7 (1779), as to descr., not the type.

*E. telmateia* Ehrh. subsp. *mauritanicum* Gand., Flora Europae 27: 46 (Oct. 1893), nom. nud.[McNeill *et. al*. (2006) Art. 32.9].
Type: 'Alger, Maison-Carée', *A.M. Gandoger alg. n. 347* (not located).

Distribution: Algeria, Libya, Morocco, Tunisia.

**Equisetum ×moorei** *Newman* in Phytologist 5: 19–20 (1854b), pro sp.
Type: Ireland. 'Clay-banks facing the sea at Rock Field, County Wicklow', *D. Moore s.n.* (not located).

*E. hyemale* L. var. *moorei* (Newman) Hook. & Arn., The British flora, edn 8: 601 (Oct.–Dec. 1860).

*E. hyemale* L. f. *moorei* (Newman) Asch. in Asch. & Graebn., Synopsis der mitteleuropäischen Flora 1,2: 143 (1 Aug. 1896b).

*E. ramosissimum* Desf. subsp. *moorei* (Newman) Maire in Encyclopédie Biologique 33: 99 (1952).

Note: Maire (1952: 99, 101) cites a collection from Algeria which Reed (1971: 36) refers to *E.* ×*moorei*. The taxon does not occur in the defined region and therefore has to be excluded from the African pteridoflora. *E.* ×*moorei* is a hybrid between *E. ramosissimum* and *E. hyemale*.

## MARATTIOPSIDA *Doweld*, Prosyllabus tracheophytorum. Tentamen systematis plantarum vascularium (Tracheophyta): vii (23 Dec. 2001)

## MARATTIALES *Link*, Hortus regius botanicus berolinensis 2: 148 (1833b), as '*Marattiaceae*'

## MARATTIACEAE

**Marattiaceae** *Kaulf.*, Enumeratio filicum: 31 (8 Apr.–29 May 1824), nom. cons. prop. over *Danaeaceae* C.Agardh (1822: 117), [Murdock *et al.* (2006: 1040–1042)]. Type: *Marattia* Sw.

*Danaeaceae* C.Agardh, Aphoricmi botanici: 117 (19 Jun. 1822), nom. rej. prop. in favour of *Marattiaceae* Kaulf., nom. cons. prop. (Murdock *et al.* 2006).

*Angiopteridaceae* Fée ex J.Bommer in Bulletin de la Société Royale de Botanique de Belgique 5,3: 345, 359, t. 1, fig. 6, t. 5, fig. 10 (before May 1867), as '*Angiopterideae*'. Type: *Angiopteris* Hoffm., nom. cons.
Note: discussed by Pichi Sermolli (28 Sep. 1970b: 229).

### ANGIOPTERIS

**Angiopteris** *Hoffm.* in Commentarii Societatis Regiae Scientiarum Gottingensis 12: 29 (1796), nom. cons., non Adans. (1763: 21). Type: *Angiopteris evecta* (G.Forst.) Hoffm.; *Polypodium evectum* G.Forst.

**Angiopteris evecta** *(G.Forst.) Hoffm.* in Commentarii Societatis Regiae Scientiarum Gottingensis 12: 29, t. 5 (1796).

*Polypodium evectum* G.Forst., Florulae insularum australium prodromus: 81 (Oct.–Nov. 1786b).
Type: Society Isl., *G. Forster s.n.* (BM, ?iso.).

*Pteris cuspidata* Thunb., Prodromus flora capensis: 171 (1800).
Type: "Cap.", *C.P. Thunberg s.n.* (UPS-Thunb, holo.).
Note: Schelpe (1963: 92) considers this as probably being *Angiopteris evecta* (G.Forst.) Hoffm.

Distribution: Mauritius, Seychelles.

**Angiopteris madagascariensis** *de Vriese* in Monographedes Marattiacées: 23, 24 (1853).
Type: 'Ins. Madagascar, Aug. 1833', *J. Goudot s.n.* (not located).

Distribution: Madagascar, Seychelles.

### MARATTIA

**Marattia** *Sw.*, Nova genera & species plantarum. Prodromus: 8, 128 (Oct. 1788). Type: *Marattia alata* Sw.

*Myriotheca* Comm. ex Juss., Genera plantarum secundum ordines naturales disposita: 15 (Oct. 1789). Type: *Myriotheca fraxinea* (Sm.) Poir.; *Marattia fraxinea* Sm.

**Marattia boivinii** *Mett. ex Ettingh.*, Die Farnkräuter der Jetzwelt: 246, pl. 178 (Nov.–Dec. 1864).
Type: "Madagascar", *L.H. Boivin s.n.* (P00466552!, iso.).

Distribution: Madagascar.

**Marattia fraxinea** *Sm.*, Plantarum icones hactenus ineditae: 2, pl. 48 (1–24 May 1790).
Type: 'Ile de France', Herb. *A. Thouin* no. 91 *Herb. Smith 1644.2*, (LINN, holo.).

*Myriotheca fraxinea* (Sm.) Poir. in Encyclopedie méthodique, Botanique 4,2: 404 (1 Nov. 1798), as '*fraxcinea*'.

*Marattia salicifolia* Schrad. in Göttingische Gelehrte Anzeigen 1818: 920 (1818).
Type: "Prom. bon. spei", *C.H.F. Hesse s.n.* (LE, holo.).

*Marattia fraxinea* Sm. ex J.F.Gmel. var. *salicifolia* (Schrad.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 67 (Feb. 1932a).

*Myriotheca fraxinifolia* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 266 (Sep. 1804a).
Type: 'Lelong des petitsbois, aubord des courants de lave au quartier de Ste. Rose. Ile Mascareigne. An X. Acquies de quatre a cinq pieds', *J.B.G.M. Bory de St.-Vincent s.n.* (P00466550!, holo.; FI, iso.).

*Myriotheca sorbifolia* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 267 (Sep. 1804a).
Type: 'Les bois peu eleves. Ile de mascareigne. An. X. Habitation Fabien sur les hauters de St Denis', *J.B.G.M. Bory de St.-Vincent s.n.* (P00466549!, holo.; FI, iso.).

*Marattia sorbifolia* (Bory) Sw., Synopsis filicum: 168 (Mar.–Apr. 1806b).

*Marattia salicifolia* Schrad. var. *natalensis* Kunze, Die Farrnkräuter 1,4: 79 (26–31 Dec. 1841).
Type: 'In Höhlen der Wälder um P. Maritzburg bei Port Natal in September in der bezeichneten Abart von Hrn. Krauss', (LZ†, holo.); 'In sylv. Clivitiis prope P. Maritzburg, Natal, Sept. 1838', *C.F.F. Krauss 257* (LZ† holo., BM, FI, K, iso.).

*Marattia natalensis* (Kunze) C.Presl, Supplementum tentaminis pteridographiae: 9 (1845b).

*Marattia dregeana* C.Presl, Supplementum tentaminis pteridographiae: 9 (1845b).
Type: 'Habitat in Capite bonae spei ad rivulum umbrosum vallis saxosae inter Omsamcaba catarractam majorem et Omsamwubo', *J.F. Drège s.n.* (?PRC, holo.; BM, K, L, W, iso.).

*Marattia macrophylla* de Vriese in Monographedes Marattiacées: 3, 4, t. 3, fig. 17 (1853).
Type: 'Mauritius', *W. Bojer s.n.* (K000435394!, lecto.), designated by Pichi Sermolli (1969a: 334).

*Marattia microcarpa* Mett. ex Ettingh., Die Farnkräuter der Jetzwelt: 247, pl. 117, figs 7, 8 (Nov.–Dec. 1864), nom. nud.
Type: 'Ins. Nossibé. 1846–48', *L.H. Boivin s.n.* (W, lecto.), designated by Pichi Sermolli (1969a: 340).

*Marattia cuneiformis* de Vriese in Monographedes Marattiacées: 7, t. 3, fig. 21, t. 4, fig. 21 (1853).
Type: 'Ile de Bourbon', *sine coll. s.n.* (K, holo.).

*Marattia odontosora* H.Christ in Journal de botanique (L. Morot, ed.) 22: 19, 20 (1909a).
Type: 'Guinée française: Fouta-Djalon, Labé, avril 1905', *A. Chevalier 12278, 12285*, 2 sheets, *12329* (P, syn.); 'Dalaba à Diaguissa de 1 100 à 1 200 m

d'altitude, 17 avril 1905', *A. Chevalier 12654* (P, syn.); 'Entre Diaguissa et Timbo, avril 1905', *A. Chevalier 13445* (P, 5 sheets, syn.); 'Tolo (Folo), bord d'un marigot sous ombragé, 23 décembre 1905', *O. Caille 15629*, 3 sheets (P00507743!, lecto.), designated by Pichi Sermolli (1969a: 343); (P00507741!, P00507742!, isolecto.); 'Côte d'Ivoire: vallée de l'Agniéby, entre Capié-Krou et Atéou, 31 janvier 1907', *A. Chevalier 17052* (P, syn.); 'Bassin du Cavally, district de Graba, collines basaltiques du Mont Copé de 100 à 360 m d'altitude, 30–31 juilet 1907', *A. Chevalier 19685* (P, 2 sheets, syn.).
Note: Pichi Sermolli (1969a) concluded that only *Caille 15629* is *M. odontosora* and that all the Chevallier collections are *Marattia fraxinea*.

*Marattia chevalieri* H.Christ, Exploration botanique de l'Afrique occidentale française 1: 776 (1920), nom. nud. [McNeill *et al.* (2006) Art. 41.3].
Type: 'Guinée française. - Entre Diaguissa et Timbo, avril 1905', *A. Chevalier 13445* (P00507739!, P0050740, iso.).

*Marattia robusta* Alston, Supplement to the Catalogue of Vascaular Plants of S. Tomé (with Principe and Annobon): 8, 9 (Feb. 1956b).
Type: 'S. Tomé, Monte. Café, 1200 m', *J.V.E. Santo 191* (BM, holo.; COI, LISC, iso.).

Chromosome number: n = 40 (Manton 1959: 78).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl., Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Seychelles, Sierra Leone, Sudan, Tanzania, Zimbabwe.

**Marattia purpurascens** *de Vriese* in Monographedes Marattiacées 7, t. 3, fig. 19, t. 4, fig. 19 (1853).
Type: 'In Adscensionis insula, 1843', *J.D. Hooker s.n.* (K000435392!, K000435393!, lecto.), designated by Pichi Sermolli (1969a: 338).

*M. ascensionis* J.Sm., Cultivated ferns: 79 (Oct. 1857a).
Type: "V.V. Hort. Kew (1850) 1850 J. Smith ex Ascension-Wren", *W. Wren s.n.* (K, lecto.), designated by Pichi Sermolli (1969a: 339).

*M. cristata* J.Sm., Catalogue of the ferns in the Royal Gardens of Kew: 8 (1856), nom. nud. [McNeill *et al.* (2006) 41.3].

*M. ascensionis* J.Sm. var. *cristata* J.Sm., Cultivated ferns: 79 (Oct. 1857a).
Type: "V.V. Hort. Kew 1856 ex Ascension (Wren)", *W. Wren s.n.* (K, holo.).

Distribution: Ascension Isl.

## PSILOTOPSIDA *D.H.Scott*, Studies in fossil botany, edn 2: 616, 631, 632 (May 1909)

## OPHIOGLOSSALES *Link*, Hortus regius botanicus berolinensis 2: 151 (1833b)

### OPHIOGLOSSACEAE

**Ophioglossaceae** *Martynov*, Tekhno-Botanicheski i Slovar, ia Latinskom i Rossilskom Yazuikakh [Latin-Russian Botanical Lexicon]: 438 (3 Aug. 1820), as '*Ophioglosseae*'. Type: *Ophioglossum* L.

*Filices* Adans. (unranked) *Ophioglosseae* R.Br., Prodromus florae Novae Hollandiae: 163 (27 Mar. 1810).

*Botrychiaceae* Horan., Characteres essentials familiarum: 15 (30 Jun. 1847). Type: *Botrychium* Sw.

#### BOTRYCHIUM

**Botrychium** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 110 (1801). Type: *Botrychium lunaria* (L.) Sw.; *Osmunda lunaria* L.

**Botrychium chamaeconium** *Bitter & Hieron.* in Die natürlichen Pflanzenfamilien 1,4: 471 (Aug. 1900).
Type: Cameroon, Mt Cameroon, Buea, *P.R. Preuss 1037* (B, holo.).

Distribution: Cameroon, Ethiopia, Sudan, Uganda.

**Botrychium lunaria** *(L.) Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 110 (1801).

*Osmunda lunaria* L., Species plantarum 2: 1064 (1 May 1753).
Provenance: 'Habitat in Europa'. Lectotype: Herb. Clifford: 472, *Osmunda* 1 (BM000647551), designated by Bobrov (1984: 6).

*B. lunaria* (L.) Sw. f. *nanum* Gelmi ex H.Christ, Die Farnkräuter der Schweiz: 171 (Oct. 1900).

Distribution: Morocco.

#### OPHIOGLOSSUM

**Ophioglossum** *L.*, Species plantarum 2: 1062 (1 May 1753). Lectotype: *Ophioglossum vulgatum* L., designated by J. Smith (1875: 367).

*Ophioglossum* L. sect. *Ophioderma* Blume, Enumeratio plantarum Javae 2: 259 (1828). Type: *Ophioglossum pendulum* L.

*Ophioderma* (Blume) Endl., Genera plantarum secundum ordines naturales disposita 1: 66 (1836).

*Ophioglossum* L. subgen. *Ophioderma* (Blume) R.T.Clausen in Memoirs of the Torrey Botanical Club 19,2: 114 (1938).

*Rhizoglossum* C.Presl, Supplementum tentaminus pteridographiae: 47 (1845b). Type: *Rhizoglossum bergianum* (Schltdl.) C.Presl; *Ophioglossum bergianum* Schltdl.

*Ophioglossum* L. subgen. *Rhizoglossum* (C.Presl) R.T.Clausen in Memoires of the Torrey Botanical Club 19,2: 163 (1938).

*Cheiroglossa* C.Presl, Supplementum tentaminis pteridographiae: 56, 57 (1845b). Type: *Cheiroglossa palmata* (L.) C.Presl; *Ophioglossum palmatum* L.

**Ophioglossum ammophilum** *C.D.Adams* in Annals and Magazine of Natural History, ser. 12, 7: 874 (1954).
Type: 'Gold Coast: Colony: Eastern Province; Accra District; Accra plains, near Kpeshi Lagoon, near Labadi, sea-level, 23 May 1954', *C.D. Adams GC4642* (BM, holo.; GC, K000351309!, iso.).

Distribution: Ethiopia, Nigeria, Sudan, Zambia.

**Ophioglossum bergianum** *Schltdl.*, Adumbrationes plantarum 1: 10 (May 1825a).
Type: 'Provinit in Promontorio bonae spei ad radicem lateris occidentalis montis Leuweberg', *C.H. Bergius s.n.* (missing).

*Rhizoglossum bergianum* (Schltdl.) C.Presl, Supplementum tentaminis pteridographiae: 48 (1845b).

Distribution: South Africa.

**Ophioglossum caroticaule** *J.E.Burrows* in Bothalia 23: 186, figs 1, 2, t. a, b (1993).
Type: "N.W. Zimbabwe: Gokwe Distr., Segwa Wildlife Research Area, Leguaan Vlei, 880 m, 11-2-1991", *J.E. & S.M. Burrows 5153* (K000351311, holo.; PRE0461774, SRGH, iso.).

Distribution: Ethiopia, Kenya, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum convexum** *J.E.Burrows* in Bothalia 19: 167 (1989).
Type: "E. Transvaal, 2530 (Lydenburg): Coromandel Farm, (–AD), in montane grassland, 1875 m, 12/1/85", *J.E. Burrows 3683* (PRE0744674, holo.; BOL128005, K, iso.).

Distribution: Madagascar, Malawi, South Africa, Zambia, Zimbabwe.

**Ophioglossum costatum** *R.Br.*, Prodromus florae Novae-Hollandiae: 163 (1–7 Apr. 1810).
Type: Nov. Holl.: Arnheim Bay, 14 Feb. 1803, *R. Brown* Iter Austral. 118 (BM, lecto.), designated by Pichi Sermolli (1954: 626); K, isolecto.

*O. vulgatum* L. var. *costatum* (R.Br.) Hook.f., Flora Tasmaniae 2: 153, pl. 169 (3 Sep. 1858).

*O. pedunculosum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 306 (1811).
Type: 'Habitat in India Orientali', Febr. 1789, *A. Menzies s.n*. (P, holo.; BM, E, LINN, W, iso.).
Note: the type was originally cited as being from 'Habitat in America Boreali?', but Desvaux (1813: 226) indicated the place of origin as 'Habitat in India Orientali'.

*O. fibrosum* Schumach., Beskrivels af Guineeiske planter: 452 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 226 (1829).
Type: West Africa, Guinea, 'Frederiksberg', *P. Thonning 50* (C, holo.).

*O. wightii* Grev. & Hook. in Botanical Miscellany 3: 218 (1833).
Type: 'Under the shade of the hedges formed of *Pandanus odoratissimus*, near Negapatam in the Peninsula of India', *R. Wight s.n*. (K, holo.).

*O. aphrodisiacum* Welw. ex Hook. & Baker, Synopsis filicum 10: 446 (Apr. 1868b).
Type: Angola, Cuanza Norte, Pungo Andongo, Dec. 1856, *F.M.J. Welwitsch 31* (LISU, 3 sheets, iso.).

*O. felixii* Tardieu in Notulae Systematicae (Paris) 13,3: 169, 170 (1948b).
Type: 'Guinée Française: sans localité, 1938', *H. Jacques-Félix 7501* (P00466563!, holo.).

Chromosome number: n = ± 116 (Manton 1959: 78).

Distribution: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Coté d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Namibia, Nigeria, São Tomé, Senegal, Sierra Leone, South Africa, Sudan, Tanzania.

**Ophioglossum gomezianum** *Welw. ex A.Braun* in Filices africanae: 176, 177 (Oct. 1868a).
Type: 'Angola, distr., Pungo Andongo. In pascuis breve herbibis juxta rivulos pr. Catete, 1857', *F.M.J. Welwitsch 35* (BM, lecto.), designated by Burrows & Johns (2001: 8); (BM, K000351313!, K000351314!, LISU, iso.).

Distribution: Angola, Bioko, Burkina Faso, Burundi, Central African Republic, Coté d'Ivoire, Ethiopia, Ghana, Guinea, Kenya, Malawi, Nigeria, Senegal, Sierra Leone, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum gracile** *Pocock ex J.E.Burrows* in Bothalia 25: 61 (1995).
Type: 'Western Cape, 3318 (Cape Town): Table Mountain, Woodhead Reservoir, (–CD), 30-6-1947', *E. Esterhuysen 13915* (BOL128006, holo.; GRA, NBG0080712-0, PRE0077343-0, iso.).

Distribution: South Africa.

**Ophioglossum gracillimum** *Welw. ex Hook. & Baker*, Synopsis filicum 10: 445 (Apr. 1868b).
Type: 'Angola, distr., Pungo Andongo. In pascuis breve herbidis juxta ripas rupesres rivulorum prope Catete, Febr. 1857', *F.M.J. Welwitsch 36* (BM, lecto.), designated by Burrows, in Burrows & Johns (2001: 12); (K000351315!, LISU, isolecto.).

*O. lusitanicum* L. var. *gracillimum* (Welw. ex Hook. & Baker) A.Braun in Filices africanae: 177, 178 (Oct. 1868a).

Distribution: Angola, Ghana, South Africa, Tanzania, Zimbabwe.

**Ophioglossum gramineum** *Willd*. in Abhandlungen der Kurfürstlich-Mainzischen Akademie nützlicher Wissenschaften zu Erfurt 2,6: 18, t. 1, fig. 1 (1802).
Type: "Habitat in collinir prope St Thomae", *De Friedland s.n*. (B-W 19441-01 0, holo.).

Distribution: Angola, Bioko, Cameroon, Chad, Ghana.

**Ophioglossum lancifolium** *C.Presl*, Supplementum tentaminis pteridographiae: 50 (1845b).
Type: 'Habitat in insula Mauritii', *L.-M.A. du Petit-Thouars s.n*. (PRC, holo.; P00466562!, iso.).

*O. braunii* Prantl in Jahrbuch des Königlichen Botanischen Gartens und des Botanischen Museums zu Berlin 1: 351 (1883).
Type: Cape Verde Isl., S. Nicolau, Gipfel des Monte Gordo, 5000', Oct. 1851, *C.A. Bolle s.n*. (FR, lecto.), designated by Lobin *et al.* (1998: 71); (BM, P00466535!, isolecto.).

Distribution: Angola, Botswana, Cape Verde Isl. (Fogo, S. Nicolau), Comoro Isl. (Mayotte), Ghana, Madagascar, Malawi, Mauritius, Namibia, South Africa.

**Ophioglossum latifolium** *(Prantl) J.E.Burrows* in Bothalia 23: 188 (1993).

*Ophioglossum gomezianum* Welw. ex A.Braun var. *latifolium* Prantl in Jahrbuch des Königlichen Botanischen Gartens und des Botanischen Museums zu Berlin 3: 316 (1884b).
Type: 'Angola: Reg. III. 2400–3800 ped. alt. Distr. Pungo Andongo in pascus breviter herbidis sociale cum aliis Ophioglossi speciebus juxta rivulos r. catete,

Febr. 1857', near Catete. Feb. 1857', *F.M.J. Welwitsch 32* (K000351312, right-hand specimen, lecto.), designated by Burrows (1993: 188), BM, LISU, isolecto.

*O. ellipticum* Welw. ex Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 279 (Mar. 1901), non Hook. & Grev. (1827b: pl. 40A).

Distribution: Angola, Congo, Kenya, Nigeria, Sierra Leone, South Africa, Tanzania, Zambia, Zimbabwe.

**Ophioglossum louisii** *Taton* in Bulletin du Jardin Botanique de l'État à Bruxelles 17,2: 118, pl. 2 (1944).
Type: 'District Forestier Central: Yangambi, forêt primitive périodiquement inondée, à proximité du fleuve et à envirn 2 km. en aval du village riverain des Lokele, sept. 1939', *J. Louis 16245* (BR, holo.; P00466560!, P00466561!, iso.).

*Cheiroglossa louisii* (Taton) Pic.Serm. in Webbia 9,2: 625 (1954).

Distribution: DRC.

**Ophioglossum lusitanicum** *L.*, Species plantarum 2: 1063 (1 May 1753).
Type: 'Habitat in Lusitania', *sine coll. s.n.* (None designated).

*O. lusitanicum* L. f. *normale* Rouy, Flore de France 14: 460 (Apr. 1913).
Type: As for *O. lusitanicum* L.

*O. lusitanicum* L. f. *latifolium* Rouy, Flore de France 14: 460 (Apr. 1913).
Type: unknown to current author.

*O. lusitanicum* L. f. *longipedunculatum* Rouy, Flore de France 14: 460 (Apr. 1913).
Type: unknown to current author.

Distribution: Algeria, Cape Verde Isl. (S. Nicolau), Morocco, Tunisia.

**Ophioglossum lusoafricanum** *Welw. ex Prantl* in Berichte der Deutschen Botanischen Gesellschaft 1: 351 (1883).
Type: 'Angola. Regio III. 2400–3800 ped. alt. Distr. Pungo Andongo, in decliviis apricis arenoso humosis (humo cum arena gneisica) montium editiorum praesidii imprimis in editis de Pedra Cazella', *F.M.J. Welwitsch 34* (B† holo.; BM, neo.), designated by Burrows & Edwards (1993: 188); (K000351316!, LISU, isoneo.).

*O. lancifolium* sensu Schelpe & Anthony in Flora of southern Africa, Pteridophyta: 35 (1986).

Distribution: Angola, Ethiopia, Kenya, Madagascar, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum nudicaule** *L.f.*, Supplementum plantarum: 443 (Apr. 1782).
Type: 'Habitat in Cap. bonae spei', *C.P. Thunberg s.n.* (LINN 1243.2, holo; UPS, iso.).

*O. capense* Schltdl. var. *nudicaule* (L.f.) Schltdl., Adumbrationes plantarum 1: 9 (May 1825a), non *O. capense* Sw. (1803: 308).

*O. capense* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1801,2: 308 (1803).
Type: As for *O. nudicaule* L.f.

Distribution: South Africa.

See Plate 2A.

**Ophioglossum opacum** *R.Br.* in Transactions of the Linnean Society of London, Botany 12: 509 (1818b).
Type: Tristan da Cunha. 'Grows high up on the dome', *D. Carmichael s.n.* (?BM, holo.).

*O. lusitanicum* sensu Roxb. in Tracts relative to the island of St Helena: 315 (Jan. 1816).

*O. vulgatum* sensu Melliss, St Helena: 355 (Mar.–Apr. 1875).

Distribution: Gough Isl., St Helena, Tristan da Cunha.

**Ophioglossum ovatum** *Bory*, Voyage dans les quatre principales îles des mers d'Afrique 2: 206 (Sep. 1804b).
Type: 'Piton de Crac', *J.B.G.M. Bory de St.-Vincent s.n.* (P00466559!, holo.).

*O. sarcophyllum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 193 (Jul. 1827).
Type: 'Habitat in insula Mauritii', *sine coll. s.n.* (P00466558!, holo.).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion.

**Ophioglossum palmatum** *L.*, Species plantarum 2: 1062 (1 May 1753).
Provenance: 'Habitat in Americae meridionali'. Lectotype: '*Ophioglossum palmatum*' in Plumier, Traité des fougères de l'Amerique 139, t. 163 (1705), designated by Proctor (1977: 45).

*Cheiroglossa palmata* (L.) C.Presl var. *malgassica* C.Chr. in Dansk Botanisk Arkiv 7: 185, pl. 74, figs 4, 5 (Oct. 1932b).
Type: Madagascar. 'Epiphyte. Bords des torrents. Vers 700 m alt. Forêt orientale aux environs du confluent de l'Onive et du Mangoro.', *H. Perrier de la Bâthie 17047* (P00466553, holo.; P00466554, P00466555, iso.).

*C. malgassica* (C.Chr.) Pic.Serm. in Webbia 23,1: 168 (20 Nov. 1968a).

Distribution: Madagascar, Mauritius, Réunion.

**Ophioglossum pendulum** *L.*, Herbarium amboinense: 27 (1754a).
Provenance: 'Habitat [in Indiae arboritus parasiticum, pendulum] Sp. pl., edn 2, 2: 1518 (Aug. 1763)'. Lectotype: '*Scolopendria major*' in Rumphius, Herbarium amboinense 6: 84, t. 37, fig. 3 (1750), designated by Green (1988: 656).

*Ophioderma pendulum* (L.) C.Presl, Supplementum tentaminis pteridographiae: 56 (1845b).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion, Rodrigues Is. (now extinct?), Seychelles, Tanzania (Zanzibar).

**Ophioglossum polyphyllum** *A.Braun* in Flora azorica: 17 (3–5 Jun. 1840).
Type: Saudi Arabia. 'In arena deserti prope Djeddam, 2 Jan. 1836', *A.F.W. Schimper 984* (BM, lecto.), designated by Pichi Sermolli (1954: 632); (G, P00466547, P00466556, P00466557, isolecto.).

*O. vulgatum* L. var. *polyphyllum* (A.Braun) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 188 (1 Oct.–5 Nov. 1867), p.p.

*O. cuspidatum* Milde in Botanische Zeitung (Berlin) 22,15: 107 (8 Apr. 1864).
Type: Ethiopia. 'In planitiebus arenosis montanis pr. Mawerr, alt. 3–4000', 17 Aug. 1854', *A.F.W. Schimper 2228* (W, not located), or (FR, holo.?, BM, G, K, P, iso.).

*O. vulgatum* L. var. *polyphyllum* (A.Braun) Milde f. *cuspidatum* (Milde) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 189 (1 Oct.–5 Nov. 1867).

*O. capense* Schltdl. var. α *regulare* Schltdl., Adumbrationes plantarum 1: 9, pl. 1, fig. 2 (May 1825a), non *O. capense* Sw. (1803: 308).
Type: South Africa, Cape of Good Hope, *J.L.L. Mund & L. Maire s.n.* (K, syn.); *Bergius s.n*. (not located).

*O. regulare* (Schltdl.) C.Chr., Index filicum: 472 (1 Apr. 1906).

*O. tapinum* Peter in Feddes Repertorium, Beiheft 40,1: 86, Anhang 2, t. 4, fig. 3 (1929).
Type: 'DOAfr., Ugogo: in offener Steppe Bahi—Kitalalo 850', *A. Peter 33274* (GOET, holo.).

Distribution: Algeria, Angola, Botswana, Burundi, Cape Verde Isl. (Sto. Antao, S. Vicente, Sta. Luzia, Boavista, Maio, Fogo), Djibouti, DRC, Egypt, Ethiopia, Ghana, Kenya, Lesotho, Malawi, Morocco, Mozambique, Namibia, Socotra, Somalia, South Africa, St Helena, Sudan, Tanzania, Uganda, Zimbabwe.

**Ophioglossum reticulatum** *L.*, Species plantarum 2: 1063 (1 May 1753).
Provenance: 'Habitat in America meridionali'. Lectotype: '*Ophioglossum cordatum et reticulatum*' in Plumier, Traité des fougères de l'Amerique: 141, t. 164 (1705), designated by Tardieu-Blot (1964b: 30).

*O. vulgatum* L. var. *reticulatum* (L.) D.C.Eaton in Memoirs of the American Academy of Arts and Sciences, n.s. 8: 218 (1861).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Nicolau, Santiago, Brava), Central African Republic, Chad, Comoro Isl. (Anjouan), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Réunion, Rodrigues Isl., Socotra, Sudan.

See Plate 2B.

**Ophioglossum richardiae** *J.E.Burrows* in Bothalia 29: 109 (1999).
Type: 'Zambia, Northern Province, 24 km from Mbala (Abercorn), The Rocks, 4.8 km N of Kawimbe, 1 700 m, 26 Febr. 1959', *M. McCallum-Webster C8* (K, holo.).

Distribution: Tanzania, Zambia.

**Ophioglossum rubellum** *Welw. ex A.Braun* in Kuhn, Filices africanae: 179, 180 (Oct. 1868).
Type: 'Angola, distr. Pungo Andongo. In pascuis brevi herbibis juxta ripas rivuli de Catete nec non prope Candumba ad flumen Cuanza, 1857', *F.M.J. Welwitsch 33* (K000351318!, holo.; BM, K000351319!, LISU, iso.).

Distribution: Angola, Central African Republic, Ethiopia, Gabon, Ghana, Kenya, Malawi, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum thomasii** *R.T.Clausen* in Memoirs of the Torrey Botanical Club 19,2: 152, 153 (1938).
Type: 'Locally frequent in swamp, Kabaka's Lake, Kampala, Uganda, March 1938', *P. Chandler s.n*., in Thomas 1903 (BM, holo.; P, iso.).

Distribution: Cameroon, Coté d'Ivoire, DRC, Gabon, Ghana, Liberia, Malawi, Nigeria, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum vulgatum** *L.*, Species plantarum 2: 1062 (1 May 1753), subsp. **vulgatum**.
Provenance: 'Habitat in Europae pratis sylvaticis'. Lectotype: Herb. Linn. No. 1243.1 (LINN), designated by Bobrov (1984: 6).

Distribution: Ascension Isl., Algeria, Burundi, Madagascar, Morocco, Rwanda.

**Ophioglossum vulgatum** *L.* subsp. **africanum** *Pocock ex J.E.Burrows* in Bothalia 23: 189 (1993).
Type: '–2929 (Underberg): South Africa, Natal, Bergville Distr., Cathedral Peak Forest Research Station, Catchment 9, (–AB), 1 905 m, 9-1-1951', *D.J.B. Killick 1267* (NU, holo.; PRE0077344-0, iso.).

Distribution: Ethiopia, Kenya, Liberia, ?Madagascar, Malawi, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Ophioglossum vulgatum** *L.* subsp. **africanum** *Pocock ex J.E.Burrows* var. **taylorianum** *J.E.Burrows* in Bothalia 29: 110 (1999).
Type: 'Tanzania, Songea Distr., by Likonde River, 750 m, 26 June 1956', *E.W.B.H. Milde-Redhead & Taylor 10905* (K000351310!, holo.; EA, iso.).

Distribution: Tanzania, Zimbabwe.

**Ophioglossum vulgatum** *L.* subsp. **kilimandscharicum** *(Hieron.) J.E.Burrows* in Bothalia 25: 62 (1995).

*O. vulgatum* L. var. *kilimandscharicum* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 89 (Jun. 1895).
Type: Tanzania, Kilimanjaro, Kifinika Vulcano, 2 800 m, *G.L.A. Volkens 1161* (B†; BM, lecto.), designated by Burrows in Burrows & Johns (2001: 17).

*O. microstichum* Ach. in Kongliga Svenska Vetenskaps Academiens Handlingar 1809: 59, t. 3a (1809).

Distribution: DRC, Kenya, South Africa, Tanzania.

## PSILOTALES *Prantl*, Lehrbuch der Botanik, edn 5: 183 (5 Jan. 1884a), as '*Psilotaceae*'

## PSILOTACEAE

**Psilotaceae** *J.W.Griff. & Henfr*., The micrographic dictionary 1: 540 (1 Nov. 1855), as '*Psiloteae*'.
Type: *Psilotum* Sw.

### PSILOTUM

**Psilotum** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 8, 109 (1801). Type: *Psilotum triquetrum* Sw., nom. superfl. [McNeill *et al.* (2006) Art. 52.1], (now *Psilotum nudum* (L.) P.Beauv.; *Lycopodium nudum* L.).

**Psilotum complanatum** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 110 (1801). Type: "Habitat in America?", 'Jamaica', *O. Swartz s.n*. (S, holo.; B-W 19437!, iso.).

*P. flaccidum* Wall., A numerical list of dried specimens: no. 45 (1829), nom. nud. [McNeill *et al.* (2006) Art. 41.3]. Type: 'Wall. Herb. 1832 / Aestuar. Singaporeanum, arb. paras. 1822', (not located).

Distribution: Seychelles.

**Psilotum nudum** *(L.) P.Beauv*., Prodrome des cinquième et sixième familles de l'Aethéogamie: 106 & 112 (10 Jan. 1805).

*Lycopodium nudum* L., Species plantarum 2: 1100, 1101 (1 May 1753).
Provenance: 'In Indiis'. Lectotype: Herb. Linn. no. 1257.1 (LINN), designated by Proctor (1977: 16).

*P. triquetrum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 109 (1801), nom. superfl. [McNeill *et al.* (2006) Art. 52.1], for *Lycopodium nudum* L., now *Psilotum nudum* (L.) P.Beauv.

*Bernhardia dichotoma* Willd. in Abhandlungen der Kurfürstlich-Mainzischen Akademie nützlicher Wissenschaften zu Erfurt 2,6: 11 (1802), nom. superfl. [McNeill *et al.* (2006) Art. 52.1], for *Lycopodium nudum* L.; *Psilotum nudum* (L.) P.Beauv.
Type: "Habitat in Martinica", *P.E. Isert s.n*. (B-W 19436-00 0, B-W 19436-01 0, B-W 19436-02 0, B-W 19436-03 0).

*B. capensis* Müll.Berol. in Botanische Zeitung (Berlin) 14: 239, 240 (4 Apr. 1856).
Type: 'Pl. Natal', *W. Gueinzius s.n*. (?KR, holo.); sine loc., *C.W.L. Pappe s.n*. (not located).

Distribution: Angola, Annobon, Ascension Isl., Bioko, Cameroon, Cape Verde Isl. (Sto. Antão, S. Nicolau, Brava), Comoro Isl., Congo, Diego Garcia, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Pemba, Réunion, Rodrigues Isl., São Tomé, Senegal, Seychelles, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

See Plate 2Ca, Cb.

## POLYPODIOPSIDA *Cronquist, Takht. & Zimmerm*. in Taxon 15,4: 133 (Apr. 1966)

## OSMUNDALES *Link*, Hortus regius botanicus berolinensis 2: 138 (Jul.–Dec. 1833b), as '*Osmundaceae*'

### OSMUNDACEAE

**Osmundaceae** *Martynov*, Tekhno-Botanicheski i Slovar, ia Latinskom i Rossilskom Yazuikakh [Latin-Russian Botanical Lexicon]: 445 (3 Aug. 1820). Type: *Osmunda* L.

### OSMUNDA

**Osmunda** *L*., Species plantarum 2: 1063 (1 May 1753). Lectotype: *Osmunda regalis* L., designated by Léman (1825: 9).

*Struthiopteris* Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 126 (1801), non Scop. (1760: 168), nec Willd. (1809a: 160). Type: *Struthiopteris regalis* (L.) Bernh., *Osmunda regalis* L., designated by Pichi Sermolli (1972: 507).

**Osmunda regalis** *L*., Species plantarum 2: 1065 (1 May 1753).
Type: Sine loc., Herb. Burser XX: 26 (UPS, lecto.), designated by Jonsell & Jarvis (1994: 148).

*Struthiopteris regalis* (L.) Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 126 (1801).

*Aphyllocalpa regalis* (L.) Cav. in Anales de Ciencias Naturales 5: 556 (1803).

*O. spectabilis* Willd., Species plantarum, edn 4, 5: 98 (25–27 Jun. 1810).

*O. obtusifolia* Kaulf., Enumeratio filicum: 43 (Oct. 1824). Type: "Habitat in insula Mauritii", *L.-M.A. du Petit-Thouars s.n*. (B-W 19505.1!, B-W 19505.2, holo.).

*O. regalis* L. var. *obtusifolia* (Kaulf.) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 179 (1 Oct.–5 Nov. 1867).

*O. regalis* L. var. *brevifolia* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 198 (Jul. 1827).
Type: 'Habitat in insula Mascareigne', *A.N. Desvaux s.n*. (P00466548!, holo.).

*O. hilsenbergii* Hook. & Grev., Botanical Miscellany 3: 230 (1833).
Type: unknown to current author.

*O. plumierii* Tausch in Flora 19,1: 426 (1836).
Type: Based on Plumier, Traité des fougères de l'Amerique: 35, t. B, fig. 4 (1705), icon.; 'Corsica', *sine coll. s.n*. (not located).

*O. capensis* C.Presl, Supplementum tentaminis pteridographiae: 63, 64 (1845b), non L. (1771: 306).
Type: 'Habitat in promontorio bonae spei ad rivum summi montis prope Omsamcaba', *J.F. Drége s.n*. (PR?, holo.).

*O. regalis* L. var. *capensis* (C.Presl) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 179 (1 Oct.–5 Nov. 1867).

*O. regalis* L. var. *plumieri* (Tausch) Kuhn f. *abyssinica* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 59 (Aug.–Sep. 1879).
Type: Ethiopia, Amhara, Beghemder, near Garrat, *A.F.W. Schimper 1414* (BM!, holo.; B20 0118596!, B20 0118597!, E, K000435395, K000435396, P, isosyn.).

*O. regalis* L. var. *abyssinica* (Kuhn) Pic.Serm. in Webbia 9,2: 644, fig. 3 (1954).

*O. schelpei* A.E.Bobrov in Novitates Systematicae Plantarum Vascularium. (Novosti sistematiki vysshikh i nizshikh rastenii) 1968: 6 (1968).
Type: "Zululand, Ngome, 1937", *J. Gerstner 2339* (PRE0533808, holo.).

*O. transvaalensis* A.E.Bobrov in Novitates Systematicae Plantarum Vascularium. (Novosti sistematiki vysshikh i nizshikh rastenii) 1968: 7 (1968).
Type: "Entabeni forest reserve. Beside stream under overhanging bank, 4500 ft, 9.9.47", *L.E. Codd 3039* (PRE0533690, holo.).

Chromosome number: n = 22 (Manton 1959: 78).

Distribution: Algeria, Angola, Bioko, Burkina Faso, Burundi, Cameroon, Cape Verde Isl. (Sto Antão), Central African Republic, Congo, DRC, Ethiopia, Guinea, Kenya, Lesotho, Li-

beria, Madagascar, Mauritius, Malawi, Mali, Mauritius, Morocco, Mozambique, Nigeria, Réunion, Rwanda, Sudan, Tunisia.

See Plate 2D.

### TODEA

**Todea** *Willd. ex Bernh*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 126, 127 (1801). Type: *Todea africana* Willd. ex Bernh., nom. illeg. [McNeill *et al.* (2006) Art. 52.1], (now *Todea barbara* (L.) T.Moore; *Acrostichum barbarum* L.).

**Todea barbara** *(L.) T.Moore*, Index filicum 1: cxix (May 1857h); 2,1: 7 (Jun. 1857i).

*Acrostichum barbarum* L., Species plantarum 2: 1072 (1 May 1753).
Provenance: 'Habitat in Africa'. Type: None designated. Schelpe in Schelpe & N.C.Anthony (1986: 45) indicate *P. Adair* from the Sloane Herbarium as the the holotype, but this collection was never seen by Linneaus and is not original material for the name.

*Osmunda barbara* (L.) Thunb., Prodromus plantarum capensium: 171 (1800).

*T. africana* Willd. in Abhandlungen der Kurfürstlich-Mainzischen Akademie nützlicher Wissenschaften zu Erfurt 2,6: 14, 15 (1802), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Acrostichum barbarum* L.

Distribution: Mozambique, South Africa, Swaziland, Zimbabwe.

See Plate 2E.

## HYMENOPHYLLALES *A.B.Frank* in Leunis, Synopsis der Pflanzenkunde, edn 2, 3: 1452, 1474 (1877), as '*Hymenophyllaceae*'

## HYMENOPHYLLACEAE

**Hymenophyllaceae** *Mart*., Conspectus regni vegetabilis: 3 (Sep.–Oct. 1835). Type: *Hymenophyllum* Sm.

*Trichomanaceae* Burmeist., Handbuch der Naturgeschichte 1: 196 (12–17 Dec. 1836), as '*Trichomanoideae*'. Type: *Trichomanes* L.

### ABRODICTYUM

**Abrodictyum** *C.Presl*, Hymenophyllaceae. Eine botanische Abhandlung: 20, 21, pl. 7 (1843). Type: *Abrodictyum cumingii* C.Presl.

*Trichomanes* L. sect. *Abrodictyum* (C.Presl) T.Moore, Index filicum 1: cx (May 1857g).

*Cephalomanes* C.Presl subgen. *Abrodictyum* (C.Presl) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 176 (Nov. 1984).

*Trichomanes* L. subgen. *Pachychaetum* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 16 (1843). Type: *Abrodictyum rigidum* (Sw.) Ebihara & Dubuisson; *Trichomanes rigidum* Sw., designated by Christensen (1906: xv).

*Cephalomanes* C.Presl subgen. *Pachychaetum* (C.Presl) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 177 (1984).

*Abrodictyum* C.Presl subgen. *Pachychaetum* (C.Presl) Ebihara & K.Iwats. in Ebihara *et al*. in Blumea 51,2: 243 (2006).

*Trichomanes* L. subgen. *Macroglena* C.Presl in Abhandlungen der Königlichen Böhmischen Gesellschaft der Wissenschaften, ser. 5, 6: 333 (1851). Lectotype: *Abrodictyum meifolium* (Bory ex Willd.) Ebihara & K.Iwats.; *Trichomanes meifolium* Bory ex Willd., designated by Christensen (1906: xv).

*Cephalomanes* C.Presl subgen. *Macroglena* (C.Presl) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 176, 177 (1984).

*Macroglena* (C.Presl) Copel. in The Philippine Journal of Science 67,1: 82 (Sep. 1938b).

*Habrodictyon* C.Presl ex Bosch, Hymenophyllaceae javanicae: 17 (1861c). Type: *Trichomanes smithii* Hook.

*Trichomanes* L. sect. *Selenodesmium* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 53 (Oct. 1875). Lectotype: *Abrodictyum rigidum* (Sw.) Ebihara & Dubuisson; *Trichomanes rigidum* Sw., designated by Christensen (1906: xv).

*Selenodesmium* (Prantl) Copel. in The Philippine Journal of Science 67,1: 80 (1938b).

**Abrodictyum angustimarginatum** *(Bonap.) J.P.Roux*, comb. nov.

*Trichomanes angustimarginatum* Bonap. in Notes Ptéridologiques 16: 12, 13 (14 Apr. 1925a).
Type: Madagascar. 'Règion de l'Est. Près de Beforona. Forêt orientale. Sur les troncs pourris. Vers 700 mètres d'altitude, Novembre 1921', *H. Perrier de la Bâthie 14286* (P00466435, holo.; P00466433, P00466434, iso.).

*Macroglena angustimarginata* (Bonap.) Copel. in The Philippine Journal of Science 67,1: 84 (1938b).

Distribution: Madagascar.

**Abrodictyum cupressoides** *(Desv.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 244 (2006).

*Trichomanes cupressoides* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 330 (Jul. 1827).
Type: 'Habitat in insulis Séchelles', *P. Commerson s.n*. (P00065002, holo.; P00065003, iso.).

*Selenodesmium cupressoides* (Desv.) Copel. in The Philippine Journal of Science 67,1: 81 (1938b).

Chromosome number: n = 33 (Manton 1959: 78).

Distribution: Cameroon, Comores (Anjouan), Congo, Cote d'Ivoire, Gabon, Ghana, Guinea, Liberia, Madagascar, Mauritius, Nigeria, Réunion, Seychelles.

**Abrodictyum guineense** *(Afzel. ex Sw.) J.P.Roux*, comb. nov.

*Trichomanes guineense* Afzel. ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 96 (1801).
Type: Sierra Leone, *A. Afzelius s.n.* (S-PA, holo.).

*Selenodesmium guineense* (Afzel. ex Sw.) Pic.Serm. in Webbia 23,1: 190 (20 Nov. 1968a).

*T. hartii* Baker in The Gardeners' Chronicle and Agricultural Gazette 18: 680 (1882b).
Type: 'Sierra Leone', *W.H. Hart s.n*. (K000435652!, holo.).

*T. latisectum* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 20, 21 (1909a).
Type: 'Côte d'Ivoire: bassin du moyen cavally, pied du Mont Niénokoué à 300 m d'altitude, terre granitique, 19 juillet 1907', *A. Chevalier 19481* (P00511822!, holo.; P00511823!, iso.).

*T. batrachoglossum* Copel. in The Philippine Journal of Science 51,2: 244 (Jun. 1933).
Type: 'Liberia', *O.F. Cook 392* (US946305, holo.).

Distribution: Bioko, Cameroon, Congo, Côte d'Ivoire, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Sierra Leone.

**Abrodictyum meifolium** *(Bory ex Willd.) Ebihara & K.Iwats*. in Ebihara *et al*. in Blumea 51,2: 244 (2006).

*Macroglena meifolia* (Bory) Copel. in The Philippine Journal of Science 67,1: 83 (1938b).

*Trichomanes ericoides* Hedw. in Beiträge zur Naturkunde 1: 116 (15 Nov. 1805–1806).

*T. foeniculaceum* Hook., Species filicum 1,3: 135 (Jan.–Sep. 1845).
Type: Mauritius and Bourbon, *J.B.G.M. Bory de St.-Vincent s.n*. (*Carmichael, Bojer s.n.*); Philippine Islands, *H. Cuming 400* (not located).

*T. longisetum* Bory ex Willd., Species plantarum, edn 4, 5,1: 510, 511 (25–27 Jun. 1810).
Type: 'Habitat in sylvis insulae Borboniae', *sine coll. s.n*. (?B-W).

*T. meifolium* Bory ex Willd., Species plantarum, edn 4, 5,1: 509, 510 (25–27 Jun. 1810).
Type: 'Habitat in sylvis montium insulae Borboniae', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20201-01 0, holo.).

Distribution: Madagascar, Réunion.

**Abrodictyum rigidum** *(Sw.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 243 (2006).

*Trichomanes rigidum* Sw., Nova genera & species plantarum. Prodromus: 137 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *sine coll. s.n*. (S, holo.; LD, UPS, iso.).

*Selenodesmium rigidum* (Sw.) Copel. in The Philippine Journal of Science 67,1: 81 (1938b).

*Cephalomanes rigidum* (Sw.) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 177 (1984).

*T. lanceolatum* Poir. in Encyclopedie méthodique, Botanique 8: 83 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n*. (P00482989!, holo.; P00482990!, iso.).

*T. parviflorum* Poir. in Encyclopedie méthodique, Botanique 8: 83 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.M.A. du Petit-Thouars s.n*. (P00482986!, holo.; P00482987!, iso.).

*T. mandioccanum* Raddi, Plantarum brasiliensium nova genera: 64, t. 79, fig. 2 (1825).

*T. dregei* Bosch in Nederlandsch Kruidkundig Archief 4: 372 (1858).
Type: Transkei, Lusikisiki, *J.F. Drège s.n*. (P?, holo.; BM, iso.).
Note: sheet B20 0106572 may be eligible as an isotype.

*T. obscurum* Blume var. *pectinatum* Mett. ex Kuhn, Filices africanae: 35 (Oct. 1868).
Type: 'Ins. Borbonia', *L.H. Boivin s.n*. (not located); 'Ins. Sechellae', *A. Pervillé 81 & 84* ( not located).

*T. rigidum* Sw. var. *lugubre* H.Christ in Bulletin de l'Herbier Boissier, sér. 2, 1,9: 849 (31 Aug. 1901b).
Type: 'Kisantu, 1900', *J.B. Gillet s.n*. (not locaed).

*T. rigidum* Sw. var. *annobonense* Brause in Botanische Jahrbücher 53: 378 (1915).
Type: 'Westafrika: Insel Annobon, Gipfel der Santa Mina, Nebelwald mit Baumfernen, 650 m ü. M., Oktober 1911', *J. Mildbraed 6700* (B?).

*T. elongatum* sensu De Wild., Plantae Thonnerianae Congolenses Série II: 268 (Jul. 1911), non A.Cunn. (1836: 368).

*T. crispum* sensu Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 36 (1946), non. L. (1753: 1097).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl., Congo, Coté d'Ivoire, Congo, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, La Réunion, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Príncipe, Rwanda, São Tomé, Seychelles.

**Abrodictyum stylosum** *(Poir.) J.P.Roux*, comb. nov.

*Trichomanes stylosum* Poir. in Encyclopedie méthodique, Botanique 8: 82 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n*. (P00482618!, holo.; P00482633!, iso.).

*Selenodesmium stylosum* (Poir.) Copel. in The Philippine Journal of Science 67,1: 81 (1938b).

*T. achilleifolium* Bory ex Willd., Species plantarum, edn 4, 5,1: 512 (25–27 Jun. 1810), as '*achilleaefolium*'.
Type: "Ile de france & de Bourbon", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20214-01 0, holo.).

Distribution: Madagascar, Réunion.

**Abrodictyum tamarisciforme** *(Jacq.) Ebihara & Duboisson* in Ebihara *et al*. in Blumea 51,2: 244 (2006).

*Trichomanes tamarisciforme* Jacq., Collectanea 3: 285, pl. 21, fig. 2 [1789] (1791).
Type: 'Sponte crescit in insula Borboniae', *sine coll. s.n*. (?W, holo.).

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

## CREPIDOMANES

**Crepidomanes** *(C.Presl) C.Presl*, Epimeliae botanicae: 258 (Oct. 1851).

*Trichomanes* L. subgen. *Crepidomanes* C.Presl, Epimeliae botanicae: 17 (Oct. 1851). Type: *Crepidomanes intramarginale* (Hook. & Grev.) C.Presl; *Trichomanes intramarginale* Hook. & Grev.

*Trichomanes* L. subgen. *Minora* Prantl sect. *Crepidomanes* (C.Presl) Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 51 (1875).

*Taschneria* C.Presl, Epimeliae botanicae: 258 (1851). Type: *Trichomanes filicula* (Bory ex Willd.) Bory, now *Crepidomanes bipunctatum* (Poir.) Copel.

*Trichomanes* L. sect. *Taschneria* C.Presl ex C.Chr., Index filicum: XV (10 Oct. 1906).

*Crepidomanes* (C.Presl) C.Presl sect. *Taschneria* (C.Presl ex C.Chr.) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 175 (Nov. 1984).

*Trichomanes* L. subgen. *Minora* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 51 (1875). Type: *Trichomanes intramarginale* Hook. & Grev.; *Crepidomanes intramarginale* (Hook. & Grev.) Copel., designated by Morton (1968a: 181).

**Crepidomanes africanum** *(H.Christ) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 238 (2006).

*Trichomanes africanum* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 21 (1909a).
Type: 'Côte d'Ivoire: Malamalasso, sur le bas Comoé, dans la forêt, sur les talus très frais, 7–9 mars 1907', *A. Chevalier 17527* (P00466436, holo.; K000435650!, iso.).

*T. filiculoides* sensu De Wild. in Annales du Musée du Congo (Belge). Botanique, ser. 5, 3,1: 25 (1909).

Distribution: Annobon, Bioko, Cameroon, Central African Republic, Chad, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, São Tomé, Sierra Leone, Sudan, Togo.

**Crepidomanes bipunctatum** *(Poir.) Copel*. in The Philippine Journal of Science 67,1: 59 (1938b).

*Trichomanes bipunctatum* Poir. in Encyclopedie méthodique, Botanique 8: 69 (22 Aug. 1808).
Type: Madagascar, *L.-M.A. du Petit-Thouars s.n*. (P00482602, holo.; P00477821!, P00477823!, iso.).

*Hymenophyllum filicula* Bory ex Willd., Species plantarum, edn 4, 5,1: 528 (25–27 Jun. 1810).
Type: 'Habitat in sylvis insulae Mauritii, Borboniae', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20233-01 0, holo; P00477824, iso.).

*T. filicula* (Bory ex Willd.) Bory in Voyage autour du monde Cryptogamie 6: 283 (Nov. 1829).

Distribution: Comoro Isl. (Anjouan, Mayotte), Mauritius, Madagascar, Réunion.

**Crepidomanes bonapartei** *(C.Chr.) J.P.Roux*, comb. nov.

*Trichomanes bonapartei* C.Chr. in Notes Ptéridologiques 9: 14, 15, fig. 4 (10 Feb. 1920b), as '*bonapartii*'.
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Environ 1 200 mètres d'altitude. Sur les troncs et les pierres, Juin 1909', *H. Perrier de la Bâthie 7745* (P00466425!, holo.).

*Gonocormus bonapartei* (C.Chr.) Copel. in The Philippine Journal of Science 67,1: 101 (1938b).

*T. flabellatum* Bosch in Nederlandsch Kruidkundig Archief 4: 353 (1858) non *T. flabellatum* Bory ex Desv. (1827: 325).
Type: 'Hab. Java', *C.L. von Blume s.n*. (L, syn.).

*T. lanceum* Bory ex Willd., Species plantarum, edn 4, 5,1: 500, 501 (25–27 Jun. 1810).
Type: 'Habitat in insula Borboniae', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20208-01 0, holo.).

*T. loreum* Bory in Voyage aux Indes Orientales. Botanique 2,1: 79 (24 May 1833).

Distribution: Madagascar, Mauritius.

**Crepidomanes chevalieri** *(H.Christ) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 238 (2006).

*Trichomanes chevalieri* H.Christ in Bulletin de la Société Botanique de France 55,2 Mémoire 8b: 106 (1908).
Type: Haut Oubangui, *A. Chevalier 5400* (K000435649!, holo.).

*Vandenboschia chevalieri* (H.Christ) G.Kunkel in Nova Hedwigia 6,1/2: 213 (1963c).

*T. mannii* sensu Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 30, pl. 3, fig. M (1946), non Hook. in (1867a: 75).

Distribution: Bioko, Burundi, Cameroon, Central African Republic, Chad, Congo, Côte d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda.

**Crepidomanes clarenceanum** *(Ballard) Pic.Serm*. in Webbia 23,1: 169 (20 Nov. 1968a).

*Trichomanes clarenceanum* F.Ballard in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1937,6: 346 (1937), nom. nov. for *Trichomanes dilatatum* (Bosch) Kuhn, non G.Forst. (1786b: 85).
Type: As for *Didymoglossum dilatatum* Bosch.

*Didymoglossum dilatatum* Bosch in Nederlandsch Kruidkundig Archief 5,3: 144 (1861b).
Type: 'Insula Fernando-Po', *G. Mann 331* (K000435662!, holo.).

*T. dilatatum* (Bosch) Kuhn, Filices africanae: 33 (Oct. 1868), non G.Forst. (1786a: 85), nec *Crepidomanes dilatatum* Ching & C.H.Wang (1959: 137).

*Vandenboschia dilatata* (Bosch) G.Kunkel in Nova Hedwigia 6,1/2: 213 (1963c).

*Drynaria willdenowii* (Bory) T.Moore var. *fuscopaleacea* Hieron. in Botanische Jahrbücher 28: 347 (1900a).
Type: Tanzania. 'Uhere: in einem sumpfigen Thale epiphytisch auf Bäumen bei Fikongono, Utshungwe-Berge um 1 600 m ü. M., Febr. 1899', *W. Goetze 619* (B, syn.); Tanzania. 'Uhere: in einem sumpfigen Thale epiphytisch auf Bäumen bei Fikongono, Utshungwe-Berge um 1 600 m ü. M., Febr. 1899', *W. Goetze 620*, (B20 0061016!, syn.).

Distribution: Bioko, Cameroon, DRC, Liberia, Nigeria.

**Crepidomanes fallax** *(H.Christ) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 238 (2006).

*Trichomanes fallax* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 24, 25 (1909b).
Type: Democratic Republic of Congo. Route de Zobia à Buta, 10 Mai 1907, *F. Seret 863* (BM!, holo.).

*Vandenboschia fallax* (H.Christ) Copel. in The Philippine Journal of Science 67,1: 52 (1938b).

*T. latilobum* Bonap. in A. Chevalier, Exploration botanique de l'Afrique occidentale française 1: 755 (1920), nom. nud. [McNeill *et al.* (2006) Art. 41.3].
Type: 'Côte d'Ivoire—Bassin du Haut-Nuon, pays des Dyolas, entre Sempleu et Ganhoué, dans la forêt, sur un rocher de granit, 4 avril 1909', *A. Chevalier 21140* (not located).

Distribution: Bioko, Congo, Côte d'Ivoire, DRC, Ghana, Guinea, Liberia, Madagascar, Sierra Leone, Uganda.

**Crepidomanes frappieri** *(Cordem.) J.P.Roux*, Conspectus of southern African Pteridophyta: 45 (Nov. 2001a).

*Trichomanes frappieri* Cordem., Flore de l'Ile de la Réunion: 32, 33 (1895).
Type: Ile de la Réunion, Brûlé de S. Denis, 1891, *Bédier s.n.* (P00477825, neo.), designated by Pichi Sermolli (1983b: 130, 131).

*T. ramitrichum* Faden in American Fern Journal 67,1: 5 (31 Mar. 1977).
Type: 'Kenya, Kericho District, South West Man Forest, along the Kiptiget (Chepkoisi) River, ca. 16 km SSE of Kericho, 0°31'–0°30" S, 35°18'–35°19'30"E, 1 980– 2 020 m, 12 June 1972', *R.B. Faden & J. Grumbley 72/338* (EA, holo.; B, BM, BOL, BR, DSM, FI-PS, GH, K000435647!, LISC, LMU, MHU, MO, P, PRE, SRGH, US, WAG, iso.).

*Vandenboschia ramitricha* (Faden) Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 251 (1983a).

Distribution: Burundi, DRC, Kenya, Madagascar, Malawi, Mozambique, Réunion, Rwanda, Tanzania, Uganda, Zambia, Zimbabwe.

**Crepidomanes inopinatum** *(Pic.Serm.) J.P.Roux*, Conspectus of southern African Pteridophyta: 45 (Nov. 2001a).

*Vandenboschia inopinata* Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 245, 246 (30 Jun. 1983a).
Type: 'Zaïre, dorsale ad ovest del Lago Kivu, montagne di Shamulamba, epifita nella foresta della valletta aperta a sud-est nel versante orientale della cima a nord del rifugio del Groupe de Montagne de Kivu, ± 2 500 m, 24 Oct. 1953', *R.E.G. Pichi Sermolli 4455* (FI-PS 19455, holo.; K000435648!, iso.).

*Trichomanes inopinatum* (Pic.Serm.) J.E.Burrows, Southern African ferns and fern allies: 93, ill. 19, t. 93, 93a, b (1990).

*T. pyxidiferum* L. f. *majus* Taton in Bulletin du Jardin Botanique National de Belgique 78,1: 34 (1946).
Type: DRC. 'Secteur des lacs Edouard et Kivu: Ruwenzori, Butahu, sur rocher, alt. ± 1 800 m., avril 1914', *J.C.C. Bequaert 3931 bis* (?, syn.); DRC. 'Ruwenzori, Lamia, alt. ± 2 000 m., sur tronc d'arbre, mai 1914', *J.C.C. Bequaert 4231* (?, syn.); DRC. 'Ruwenzori, Lanuri, ravin boisé, sur arbre, alt. 1 900 m., mai 1914', *J.C.C. Bequaert s.n*. (?, syn.); DRC. 'Ruwenzori, Lamia, alt. ± 2 000 m., forêt à épiphyte, sur tronc d'arbre, mai 1914', *J.C.C. Bequaert s.n*. (?, syn.).

*T. inopinatum* (Pic.Serm.) J.E.Burrows var. *majus* (Taton) Kornaś in Fragmenta Floristica et Geobotanica 39,1: 71, fig. 29 (1994).

*C. inopinatum* (Pic.Serm.) J.P.Roux var. *majus* (Taton) J.P.Roux, Conspectus of southern African Pteridophyta: 45 (Nov. 2001a).

Distribution: Burundi, Cameroon, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Réunion, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

See Plate 2F.

**Crepidomanes longilabiatum** *(Bonap.) J.P.Roux*, comb. nov.

*Trichomanes longilabiatum* Bonap. in Notes Ptéridologiques 16: 13, 14 (14 Apr. 1925a).
Type: Madagascar. 'Règion floristique de l'Est. Vallée de l'Itomampy. Forêt orientale, vers 700 mètres d'altitude. Sur les pierres humides. Juin 1919', *H. Perrier de la Bâthie 12657* (P00466416!, holo.; P00466415!, iso.).

Distribution: Madagascar.

**Crepidomanes mannii** *(Hook.) J.P.Roux* in Bothalia 30: 155 (2000).

*Trichomanes mannii* Hook. in Synopsis filicum 3: 75 (22 Jan. 1867a).
Type: 'Fernando Po', *G. Mann s.n*. (K, holo.).

*Gonocormus mannii* (Hook.) G.Kunkel in Nova Hedwigia 6,1/2: 212 (1963c).

*T. mannianum* Mett. ex Kuhn, Filices africanae: 34, 35 (Oct. 1868).
Type: 'Ins. Fernando Po', *G. Mann s.n*. (K?, holo.).

*T. trinerve* Baker, Flora of Mauritius and the Seychelles: 465 (2 Aug. 1877b).
Type: 'Mauritius, at the Tamarin cascade, with *T. barklianum*', *H. Barkly & A.M. Barkly s.n*. (K000228373, holo.).

*T. musolense* Brause ex Brause & Hieron. in Botanische Jahrbücher 53: 377, 378 (1915).
Type: 'Westafrika: Fernando Poo, Musola oberhalb San Carlos (Westküste). Niedriger Wald zwischen Musola und dem Grasland von Moka im Südosten, 600–1 200 m. ü. M., Nov. 1911', *J. Mildbraed 7057* (B20 0105426, holo.; B20 0105427, BM!, P00482619!, iso.).

*T. ambongoense* Bonap. in Notes Ptéridologiques 9: 13, 14 (10 Feb. 1920a).
Type: Madagascar. 'Région de l'Ouest. Ambongo. Plateau de Tampoketsa. Sur les trincs d'arbes d'une forêt humide. Septembre 1904', *H. Perrier de la Bâthie 7501* (P00466408, P00466414, syn.); Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Près de 1 400 mètres d'altitude. Bois secs. Sur les troncs. Mai 1909', *H. Perrier de la Bâthie 7769* (P00466412, P00466413, syn.); Madagascar. 'Region floristique du Centre. Massif de Manongarivo. Vers 1 200 mètres d'altitude. Bois secs. Sur les troncs. Mars 1909', *H. Perrier de la Bâthie 7770* (P00466411, P00466410, syn.); Madagascar. 'Region floristique du Centre. Massif de Manongarivo. Vers 1 200 mètres d'altitude. Bois secs. Sur les troncs. Mai 1909', *H. Perrier de la Bâthie 7771* (P00466409, P00482601, syn.).

*T. angustilaciniatum* Bonap. in Notes Ptéridologiques 16: 11, 12 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique du Centre. Massif d'Andingitra. 2 000 mètres d'altitude. Rocailles humides. Avril 1921', *H. Perrier de la Bâthie 13756* (P00482604!, holo.; P00482603!, iso.).

*T. proliferum* sensu Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 31 (1946), non Blume (1828: 224).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl., Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Nigeria, Réunion, Rwanda, São Tomé, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia.

**Crepidomanes melanotrichum** *(Schltdl.) J.P.Roux*, Conspectus of southern African Pteridophyta: 46 (Nov. 2001a).

*Trichomanes melanotrichum* Schltdl., Adumbrationes plantarum 5: 56 (1832).
Type: "Prom. bon. Spei: Ad Plettenbergbay', ± 1825", *J.L.L. Mund & L. Maire s.n.* (HAL37269, holo.), (Braun 1998: 18); (P, iso.); "Cap de Bonne Esperance. In rupium fissuris summi montis Constantiaberg", *sine coll. s.n*. (P00065007, P00065008, P00065009, syn.).

*Vandenboschia melanotricha* (Schltdl.) Pic.Serm. in Webbia 12,1: 127 (1956).

*T. pyxidiferum* L. var. *melanotrichum* (Schltdl.) Schelpe in Journal of South African Botany 30,4: 181 (21 Oct. 1964).

*T. pyxidiferum* L. var. *christianum* Cordem., Flore de l'Ile de la Réunion: 37 (1895).
Type: 'Brûlé de Saint-Denis', *Cordemoy 133* (P00477827, holo.).

*T. pyxidiferum* sensu Sim, The ferns of South Africa: 55, pl. 4, fig. 3 (1892).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Ghana, Guinea, DRC, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Réunion, São Tomé, Sierra Leone, South Africa, Sudan.

**Crepidomanes mettenii** *(C.Chr.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 238 (2006).

*Trichomanes mettenii* C.Chr., Index filicum: 644 (20 Aug. 1906), nom. nov.
Type: As for *Trichomanes subsessile* Mett. ex Kuhn, non Splitgb. (1840).

*T. subsessile* Mett. ex Kuhn, Filices africanae: 37 (Oct. 1868), nom. superfl. [McNeill *et al.* (2006) Art. 53.1], non Splitgb. (1840: 437).
Type: 'Africa occidentalis tropica: ad flumen Bagoo', *G. Mann s.n*. (K000435651!, holo.).

*T. bipunctatum* sensu Tardieu in Tardieu-Blot *et al*. in Études Camerounaises 2,25/26: 99 (1950), non Poir. (1808: 69).

Distribution: Annobon, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Nigeria, Sierra Leone, Uganda.

**Crepidomanes ruwenzoriense** *(Taton) J.P.Roux*, comb. nov.

*Trichomanes ruwenzoriense* Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 31, pl. 3, figs K, L (1946), as '*ruwenzoriensis*'.
Type: DRC. 'Secteur des lacs Edouard et Kivu: Ruwenzori, Lamia, forêt, à épiphyte sur troncs d'arbre, alt. ± 2 000 m', *J.C.C. Bequaert s.n*. (BR, holo.).

*Gonocormus ruwenzoriensis* (Taton) Pic.Serm. in Webbia 23,1: 175 (20 Nov. 1968a).

Distribution: DRC.

## DIDYMOGLOSSUM

**Didymoglossum** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 330 (Jul. 1827). Lectotype: *Didymoglossum muscoides* (Sw.) Desv.; *Trichomanes muscoides* Sw. (now *Didymoglossum hymenoides* (Hedw.) Copel.; *Trichomanes hymenoides* Hedw.), designated by Christensen (10 Oct. 1906: xiv), as *Trichomanes hymenoides* Hedw.

*Trichomanes* L. sect. *Didymoglossum* (Desv.) T.Moore, Index filicum 1: cx (1857g).

*Trichomanes* L. subgen. *Didymoglossum* (Desv.) C.Chr. sect. *Didymoglossum,* Index filicum: xiv (10 Oct. 1906).

*Microgonium* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 19, 20, t. VI, figs A, B (1843). Lectotype: *Microgonium cuspidatum* (Willd.) C.Presl; *Trichomanes cuspidatum* Willd., now *Didymoglossum cuspidatum* (Willd.) Ebihara & Dubuisson, designated by Christensen (10 Oct. 1906: xiv).

*Hemiphlebium* C.Presl sect. *Microgonium* (C.Presl) Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 46 (1875).

*Trichomanes* L. subgen. *Didymoglossum* (Desv.) C.Chr. sect. *Microgonium* (C.Presl) H.Christ, Die Farnkräuter der Erde: 24 (Oct. 1897a).

*Didymoglossum* Desv. subgen. *Microgonium* (C.Presl) Ebihara & K.Iwats. in Ebihara *et al*. in Blumea 51,2: 236 (2006).

**Didymoglossum ballardianum** *(Alston) J.P.Roux*, comb. nov.

*Trichomanes ballardianum* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 26 (1956a), as '*ballardiana*'.
Type: 'S. Nigeria: Shasha, Forest Reserve', *H.M. Richards 3438* (BM, holo.).

*Microgonium ballardianum* (Alston) Pic.Serm. in Webbia 23,1: 181 (20 Nov. 1968a).

Distribution: Cameroon, Congo, DRC, Equatorial Guinea, Gabon, Nigeria.

**Didymoglossum barklyanum** *(Baker) J.P.Roux*, comb. nov.

*Trichomanes barklyanum* Baker in Journal of the Linnean Society, Botany 9: 338, t. 8, fig. F (1866), as '*barklianum*'.
Type: 'Mauritius, at the Tamari cascade', *H. Barkly & A.M. Barkly s.n*. (K000228376, holo.).

Distribution: Mauritius.

**Didymoglossum benlii** *(Pic.Serm.) J.P.Roux*, comb. nov.

*Microgonium benlii* Pic.Serm. in Webbia 35,2: 254, 255, figs 1B, 2B, 5 (1982b).
Type: 'W. Kamerun: Idenau—Bomana, 120 m, 27.I.1974', *G. et U. Benl Ka 74/6* (FI-PS 29053, holo.).

*Trichomanes benlii* (Pic.Serm.) Benl in Acta Botanica Barcinonensia 40: 79 (1991).

Distribution: Cameroon, DRC.

**Didymoglossum chamaedrys** *(Taton) J.P.Roux*, comb. nov.

*Trichomanes chamaedrys* Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 29, pl. 2, figs K, L (1946).
Type: DRC. 'Secteur du Bas-Congo: Léopoldville, sur les troncs des arbes, janvier 1896', *A. Dewèvre 580* (BR, holo.).

*Crepidomanes chamaedrys* (Taton) G.Kunkel in Nova Hedwigia 6,1/2: 212 (1963c).

*Microgonium chamaedrys* (Taton) Pic.Serm. in Webbia 23,1: 181 (20 Nov. 1968a).

Distribution: Bioko, Cameroon, Congo, Cotê d'Ivoire, DRC, Gabon, Ghana, Liberia, Sierra Leone.

**Didymoglossum cuspidatum** *(Willd.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006), var. **cuspidatum**.

*Trichomanes cuspidatum* Willd., Species plantarum, edn 4, 5,1: 499 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *D. Flügge s.n.* (B-W20205-01 0, holo.; P00065001, iso.).

*Microgonium cuspidatum* (Willd.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 20 (1843).

*T. bojeri* Hook. & Grev., Icones filicum 2,8: pl. 155 (1829c).
Type: 'In sylvis umbrosis, ad arborum truncos, in Insula Mauritii', *D. Bojer s.n*. (K000435677, holo.).

Distribution: Madagascar, Mauritius, Réunion, Rodrigues Isl., Seychelles.

**Didymoglossum cuspidatum** *(Willd.) Ebihara & Dubuisson* var. **densestriatum** *(C.Chr.) J.P.Roux*, comb. nov.

*Trichomanes cuspidatum* Willd. var. *densestriatum* C.Chr. in Notes Ptéridologiques: 12: 13, figs 2, 9, 10 (2 Jul. 1920c), as '*densestriata*'.
Type: Madagascar. 'Mandraka, forêts, dans la mousse, à la base des abres, Août 1906', *C. d'Alleizette 231* (P00483243!, holo.; P00466424!, iso.).

*T. cuspidatum* Willd. var. *densestriatum* C.Chr. f. *minor* C.Chr. in Notes ptéridologiques 9: 18, 19, figs 2, 6–8 (10 Feb. 1920b).
Type: Madagascar. 'Région floristique de Centre. Massif de Manongarivo. Vers 1 600 mètres d'altitude. Rocailles humides, Mai 1909', *H. Perrier de la Bâthie 7766* (P00466423!, holo.; P00466422!, iso.).

Distribution: Comores (Anjouan), Madagascar, Mauritius, Réunion, Seychelles.

**Didymoglossum erosum** *(Willd.) J.P.Roux* in Figueiredo & Smith, Strelitzia 22: 212 (2008).

*Trichomanes erosum* Willd., Species plantarum, edn 4, 5,1: 501 (25–27 Jun. 1810).
Type: "Habitat in Oware et Benin", *A.M.F.J. Palisot de Beauvois s.n*. (B-W 20189!, holo.).

*Microgonium erosum* (Willd.) C.Presl, Die Gefässbündel im Stipes der Farrn: 27 (1847).

*T. aerugineum* Bosch in Nederlandsch Kruidkundig Archief 5,3: 201 (1863).
Type: Fernando Po, *C. Barter s.n*. (K000435654, holo; K000435653!, iso.).

*T. erosum* Willd. var. *aerugineum* (Bosch) C.Chr. ex Bonap. in Notes Ptéridologiques 13: 165 (3 Dec. 1921).

*M. aerugineum* (Bosch) Pic.Serm. in Webbia 23,1: 181 (20 Nov. 1968a).

*T. muscoides* Hook. in Synopsis filicum 3: 75 (22 Jan. 1867a), p.p., non Sw. (1801: 95).

*T. hookeri* Bonap. var. *cordifolium* (Fée) Bonap. in Notes Ptéridologiques 10: 30 (18 Mar. 1920b), non C.Presl (1843: 16).

*T. palmicola* Bosch ex Goddijn in Mededeelingen Van's Rijks-Herbarium 17: 32, fig. 19 (1913).
Type: S. Nigeria, *C. Barter 2079* (L, lecto.; K000435655, isolecto.), designated by Pichi Sermolli (1982b: 246).

*T. erosum* Willd. var. *laciniatum* Mett. ex Peter in Feddes Repertorium, Beiheft 40,1: 12 (1929).
Type: 'Comoren: Ins. Johanna', *sine coll. s.n*. (not located); 'DOAfr., Ousambara: Uw am Dodwe Bach b. Amani an Baumstämmen 900', *A. Peter 3339* (not located).

*T. erosum* Willd. f. *minus* Taton in Bulletin de la Société Royale de Botanique de Belgique 78,1: 29, pl. 2, figs C, D (1946), as '*minor*'.
Type: DRC. 'Secteur forestier central: Yangambi, alt. environ 470 m., sous-bois en foret primitive ombrophile, a la base d'un tronc vivant d'*Erythrophloeum*, a 1,50 m. du sol, oct. 1937', *J. Louis 6315* (BR, syn.); DRC. 'Secteur forestier central: Yangambi, alt. environ 470 m., sous-bois en foret primitive ombrophile, a la base d'un *Amphimas pterocarpoides* sur les empattements, nov. 1937', *J. Louis 6603* (BR, syn.); DRC. 'Yangambi, 1938', *J. Louis 15385* (BR, syn.); DRC. 'Secteur du Kasai: Lusanga, janvier 1925', *H. Vanderyst 14798* (BR, syn.).

*Crepidomanes erosum* (Willd.) G.Kunkel f. *minus* (Taton) G.Kunkel in Nova Hedwigia 6,1/2: 212 (1963c), as '*minor*'.

Note: the typification is discussed by Pichi Sermolli (1982b: 242).

*T. pusillum* sensu Baker in Synopsis filicum 3: 77 (22 Jan. 1867a), non Sw. (1788: 136).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Chad, Congo, Coté d'Ivoire, DRC, Equatoial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Pemba, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Tanzania, Togo, Uganda, Zimbabwe.

**Didymoglossum fulgens** *(C.Chr.) J.P.Roux*, comb. nov.

*Trichomanes fulgens* C.Chr. in Notes Ptéridologiques 12: 9, 10, fig. 1 (2 Jul. 1920c).
Type: 'Ins. Seychelles: Silhouette', *J.S. Gardiner s.n*. (K000435635!, holo.; K000435636!, P00466421!, iso.).

Distribution: Seychelles, Sihouette.

**Didymoglossum hildebrandtii** *(Kuhn) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006).

*Trichomanes hildebrandtii* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 70 (Aug.–Sep. 1879).
Type: 'Johanna Isl., im schattigen Walde an glatten Baumstämmen 600–800 m', *J.M. Hildebrandt 1856* (K000435634!, holo.; P00139629!, iso.).

Distribution: Comores (Anjouan), Madagascar.

**Didymoglossum kirkii** *(Hook.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006).

*Trichomanes kirkii* Hook. in Synopsis filicum 3: 78 (22 Jan. 1867a).
Type: 'Comoro Isl., Johanna Isl., on bark on trees and tree ferns, 3000 ft., Aug. 1862', *J. Kirk s.n*. (K000435666, holo.).

*Microgonium kirkii* (Hook.) Copel. in The Philippine Journal of Science 67,1: 104 (1938b), nom. nud. [McNeill *et al.* (2006) Art. 33.1].
Note: this combination was never formally made by Copeland.

Distribution: Comores (Anjouan, Johanna Isl.).

**Didymoglossum lenormandii** *(Bosch) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006).

*Trichomanes lenormandii* Bosch in Nederlandsch Kruidkundig Archief 5,3: 144, 145 (1861b), as '*lenormandi*'.
Type: 'Hab. Ins. Mayotta pr. oras Africae australes', *L.H. Boivin s.n*. Herb. de Limminghe (BR).

*T. lenormandii* Bosch var. *angustilobum* C.Chr. in Notes Ptéridologiques 9: 20, 21 (10 Feb. 1920b), as '*angustiloba*'.
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 1 400 mètres d'altitude. Bois secs. Sur les troncs. Mars 1909', *H. Perrier de la Bâthie 7732* (P00466419!, P00466420!, syn.); Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Entre 1000 et 1600 mètres d'altitude. Dans la mousse, sur les pierres ou les troncs. Mai 1909', *H. Perrier de la Bâthie 7738A* (P00482639!, syn.).

*T. lenormandii* Bosch var. *subcuspidatum* C.Chr. in Notes Ptéridologiques 9: 21 (10 Feb. 1920b).
Type: Madagascar. 'Région floristique de Sambirano. Grande Terre. Montagnes à l'Est d'Ambo, vers 300 mètres d'altitude. Sur les troncs de fougères arborescentes, Septembre 1908', *H. Perrier de la Bâthie 7733* (P00466417!; P00466418!, iso.).

Distribution: Comores (Johanna Isl, Mayotte), Madagascar, Tanzania.

**Didymoglossum liberiense** *(Copel.) Copel.* in The Philippine Journal of Science 67,1: 78 (1938b).

*Trichomanes liberiense* Copel. in The Philippine Journal of Science 51,2: 160 (Jun. 1933).
Type: 'Liberia, Mount Coffee, March 1894', *O.F. Cook s.n*. (US424785, holo.).

Distribution: Cameroon, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Ghana, Liberia, Madagascar, Nigeria.

**Didymoglossum lorencei** *(Tardieu) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006).

*Trichomanes lorencei* Tardieu in Adansonia, sér. 2, 17,2: 147, pl. 1, t. 7–13 (21 Oct. 1977).
Type: 'Valley of Cascade', *D.H. Lorence 1175* (P00477828, holo.).

Distribution: Madagascar, Mauritius.

**Didymoglossum montanum** *(Hook.) J.P.Roux*, comb. nov.

*Trichomanes montanum* Hook. in Hooker's Icones Plantarum 2: pl. 187 (1837c).
Type: 'on the trunk of a tree near La Sierra on the road to Esmaraldas, Colombia: elevation about 8,500 feet', *W. Jameson s.n*. (?K, holo.).

*T. quercifolium* Hook. & Grev., Icones filicum 1: 6, pl. 115 (1829a).
Type: 'In arboribus, in sylvis apud Esmeraldas, ab urbe Quito iter diei distantem. Amer. Merid. alt. 8000 ped.', *G. Jameson s.n*. (?K, holo.).

*D. quercifolium* (Hook. & Grev.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 23 (1843).

Distribution: Madagascar.

**Didymoglossum pygmaeum** *(C.Chr.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236 (2006).

*Trichomanes pygmaeum* C.Chr. in Notes ptéridologiques 9: 22, 23 (10 Feb. 1920b).
Type: Madagascar. 'Région floristique de l'Est. Côte Est. Rivière Anove. Bati. 200 mètres d'altitude. Septembre 1912', *H. Perrier de la Bâthie 7984* (P00482610!, holo.; K000435633!, P00482608!, P00482609!, iso.).

Distribution: Madagascar.

**Didymoglossum reptans** *(Sw.) C.Presl*, Hymenophyllaceae. Eine botanische Abhandlung: 23 (1843).

*Trichomanes reptans* Sw., Nova genera & species plantarum. Prodromus: 136 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n*. (S, holo.; BM, iso.).

*T. robinsonii* Hook. ex Baker in Journal of the Linnean Society, Botany 9: 339, t. 8B (1866), as '*Robinsoni*'.
Type: Natal, at an elevation of 3000 feet., *E.A. Robinson s.n*. (K000435669, K000435670, syn.; Natal, *J. Sanderson s.n*. (K000435671, syn.).

*D. robinsonii* (Hook. ex Baker) Copel. in The Philippine Journal of Science 67,1: 77, t. 31, figs 7, 8 (1938b).

*T. reptans* Sw. var. *major* Mett. ex Kuhn, Filices africanae: 37 (Oct. 1868).
Type: 'Natalia', *sine coll. s.n*. (Herb. Hooker).

*T. montanum* sensu Sim, The ferns of South Africa, edn 2: 71 (1915), non Hook. (1837c: pl. 187).

Distribution: Madagascar, South Africa, Tanzania.

**Didymoglossum rotundifolium** *(Bonap.) J.P.Roux*, comb. nov.

*Trichomanes rotundifolium* Bonap. in Notes Ptéridologiques 9: 23, 24 (10 Feb. 1920a).
Type: Madagascar. 'Région floristique de Centre. Massif de Manongarivo. Vers 1 000 mètres d'altitude. Bois un peu humide. Sur les troncs. Mars 1909', *H.*

*Perrier de la Bâthie 7735* (P00477780!, P00482612!, P00482613!, syn.); Madagascar. 'Région floristique de Centre. Massif de Manongarivo. Vers 1 600 mètres d'altitude Bois secs. Sur les troncs, parmi les lichens et les mousses. Mai 1909', *H. Perrier de la Bâthie 7442* p.p. (P00482611!, syn.).

Distribution: Comores (Anjouan), Madagascar.

**Didymoglossum sinuatum** *(Bonap.) Ebihara & Dubuisson* in Ebihara *et al*. in Blumea 51,2: 236, 237 (2006).

*Trichomanes sinuatum* Bonap. in Notes Ptéridologiques 9: 25, 26 (10 Feb. 1920a).
Type: Madagascar. 'Règion floristique du Centre. Massif de Monongarivo. Vers 1 300 mètres d'altitude. Bois plutôt secs. Mars 1909', *H. Perrier de la Bâthie 7773* (P00482614!, holo.; P00482615!, P00482616!, P00482617!, iso.).

*Vandenboschia sinuata* (Bonap.) Copel. in The Philippine Journal of Science 67,1: 107 (1938b).

Distribution: Madagascar.

## HYMENOPHYLLUM

**Hymenophyllum** *Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 418, fig. 8 (1793). Lectotype: *Hymenophyllum tunbridgense* (L.) Sm.; *Trichomanes tunbridgense* L., designated by Presl (1843: 31).

*Trichomanes* L. sect. *Flabellata* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 16 (1843). Lectotype: *Trichomanes digitatum* Sw.; *Hymenophyllum digitatum* (Sw.) Fosberg), designated by Morton (1968a: 199).

*Meringium* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 24, pl. 8, fig. B (1843). Type: *Meringium meyerianum* C.Presl, now *Hymenophyllum serrulatum* (C.Presl) C.Chr.

*Hymenophyllum* Sm. subgen. *Meringium* (C.Presl) Copel. in The Philippine Journal of Science 64,1/2: 14 (1938a).

*Hymenophyllum* Sm. sect. *Meringium* (C.Presl) Diem & J.S.Licht. in Darwiniana 11,4: 666 (1959).

*Hymenoglossum* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 35 (1843). Type: *Hymenoglossum cruentum* (Cav.) C.Presl; *Hymenophyllum cruentum* Cav.

*Hymenophyllum* Sm. subgen. *Hymenoglossum* (C.Presl) R.M.Tryon & A.F.Tryon in Rhodora 83,833: 134 (1981).

*Hymenophyllum* Sm. sect. *Hymenoglossum* (C.Presl) T.Moore, Index filicum 1: cxii (1857g).

*Sphaerocionium* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 33, pl. 4, fig. B, pl. 10, figs B, C (1843), emend. K.Iwats. (1982: 207). Lectotype: *Sphaerocionium hirsutum* (L.) C.Presl; *Trichomanes hirsutum* L., designated by Copeland (1938a: 10).

*Hymenophyllum* Sm. subgen. *Sphaerocionium* (C.Presl) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 5 (Oct. 1934).

*Hymenophyllum* Sm. sect. *Sphaerocionium* (C.Presl) C.Chr., Index filicum 1: xv (10 Oct. 1906).

*Gonocormus* Bosch sect. *Microtrichomanes* Mett. ex Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 51 (1875). Based on Gruppe *Microtrichomanes* Mett. (Sept.–Nov. 1864b: 413), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Lectotype: *Gonocormus digitatus* (Sw.) Prantl; *Hymenophyllum digitatum* (Sw.) Fosberg), designated by Christensen (10 Oct. 1906: xiv).

*Microtrichomanes* (Mett. ex Prantl) Copel. in The Philippine Journal of Science 67,1: 35 (Sep. 1938b). Type: *Gonocormus* Bosch. sect. *Microtrichomanes* Mett. ex Prantl (1875: 51).

*Trichomanes* L. sect. *Microtrichomanes* (Mett. ex Prantl) C.Chr., Index filicum: xiv (10 Oct. 1906).

*Crepidomanes* (C.Presl) C.Presl subgen. *Microtrichomanes* (Mett. ex Prantl) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 175 (Nov. 1984).

*Hymenophyllum* Sm. sect. *Glabra* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 54 (1875). Lectotype: *Hymenophyllum polyanthos* (Sw.) Sw.; *Trichomanes polyanthos* Sw., designated by Morton (1968a: 172).

*Hymenophyllum* Sm. subgen. *Mecodium* C.Presl ex Copel. in The Philippine Journal of Science 64,1/2: 93 (1938a). Type: Based on *Mecodium* C.Presl (1851: 258), nom. nud.

*Mecodium* (C.Presl ex Copel.) Copel. in The Philippine Journal of Science 67,1: 17 (26 Oct. 1938b). Lectotype: *Hymenophyllum polyanthos* (Sw.) Sw.; *Trichomanes polyanthos* Sw., designated by Copeland (1938a: 10).
Note: the publication and typifiction of the generic name is discussed by Pichi Sermolli (1977c: 75, 76).

*Hymenophyllum* Sm. subgen. *Euhymenophyllum* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 31, 32 (1843).

*Hymenophyllum* Sm. subsect. *Dimidiata* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 32 (1843). Lectotype: *Hymenophyllum unilaterale* Bory ex Willd., now *Hymenophyllum peltatum* (Poir.) Desv.), designated by Morton (1968a: 164).

*Hymenophyllum* Sm. sect. *Serrulata* C.Presl subsect. *Evoluta* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 32 (1843), nom. illeg., originally includes the lectotype of the genus, *Hymenophyllum tunbridgense* (L.) Sm.

*Hymenophyllum* Sm. sect. *Serrulata* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 32 (1843), nom. illeg., originally includes the lectotype of the genus, *Hymenophyllum tunbridgense* (L.) Sm.

**Hymenophyllum aeruginosum** *(Poir.) Carmich*. in Transactions of the Linnean Society of London. Botany 12: 513 (1818).

*Trichomanes aeruginosum* Poir. in Encyclopedie méthodique, Botanique 8: 76 (22 Aug. 1808).
Type: 'Das l'lle deserte de Tristan d'Acugna', *L.-M.A. du Petit-Thouars s.n*. (P00483492!, holo.).

*Sphaerocionium aeruginosum* (Poir.) Pic.Serm. in Webbia 23,1: 190 (20 Nov. 1968a).

*H. marlothii* Brause in Feddes Repertorium 11: 112 (1912).
Type: 'Peninsula Montis Tabularis, in saxonis umbrosis humidis silvarum, Skeleton ravine, 500 m. ü. d.', *R. Marloth 5169* (B20 0101820, holo.; PRE0482033, iso.).

*H. obtusum* sensu Sim, The ferns of South Africa: 49, pl. 6, fig. 1 (1892).

Chromosome number: tetraploid, 2n = ± 72 (Manton & Vida 1968: 364).

Distribution: Amsterdam Isl., Gough Isl., Inaccessible Isl., Nightingale Isl., South Africa, Tristan da Cunha.

See Plate 3A.

**Hymenophyllum balfourii** *Baker* in Annals of botany (C. König, J. Sims, eds) 5: 192 (1891a).
Type: "Bourbon", *I.B. Balfour s.n*. (K000435603!, holo.).

Distribution: Réunion.

**Hymenophyllum boutonii** *Baker*, Flora of Mauritius and the Seychelles: 462 (2 Aug. 1877b).
Type: "Mauritius", *L.S. Bouton s.n*. (K!, holo.).

Distribution: Mauritius.

**Hymenophyllum capense** *Schrad*. in Göttingische Gelehrte Anzeigen 1818: 919 (1818).
Type: 'e Cap b. Sp.', *M. Hesse s.n*. (GOET, holo.).

*Mecodium capense* (Schrad.) Pic.Serm. in Webbia 27,2: 404 [1972] (28 Feb. 1973a).

*H. thunbergii* Eckl. ex C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 32 (1843), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: "e Cap b. Spei", *M. Hesse s.n.* (GOET, holo.).

*H. natalense* Bosch in Nederlandsch Kruidkundig Archief 4: 386, 387 (1858).
Type: 'Port Natal', *W. Gueinzius s.n.* (K, syn.); 'Klynrivier', *C.L.P. Zeyher s.n.* (?K000435627, syn.); 'Gnadenthal, *Breutel s.n.* (K, syn.).

*H. zeyheri* Bosch in Nederlandsch Kruidkundig Archief 4: 388 (1858).
Type: South Africa, *C.L.P. Zeyher s.n.* (K, holo.).

*H. tabulare* Bosch in Nederlandsch Kruidkundig Archief 4: 397 (1858), nom. nov. for *H. rarum* Kunze (1847a: 234), non R.Br. (1810: 159).
Type: 'Hab. Africa australis (Tafelberg, Duivelsberg, Hollandsberg)', *C.F. Ecklon s.n.* (K, syn.).

*H. fumarioides* Bory ex Willd. var. *debilis* Mett. ex Kuhn, Filices africanae: 39 (Oct. 1868), also cites *H. limminghii* Bosch.
Type: 'Ins. Comorae', *L.H. Boivin s.n.* (B20 0101397!, holo.).

*H. rarum* sensu Sim, The ferns of South Africa: 47, 48, pl. 4, fig. 2 (1892).

*H. fumaroides* sensu Sim, The ferns of South Africa, edn 2, 74: pl. 3, fig. 2 (1915).

Distribution: Comore Isl., Madagascar, Malawi, Mauritius, Mozambique, Réunion, Seychelles, South Africa, Tanzania, Zimbabwe.

**Hymenophyllum capillaceum** *Roxb.* in Tracts relative to the island of St Helena: 311 (Jan. 1816).
Type: St Helena, 'Diana's Peak', *J. Roxburgh s.n.* (BM, holo.).

*H. infortunatum* Bory in Voyage autour du monde Cryptogamie 6: 284, t. 38, fig. 3 (Nov. 1829).
Type: 'Sainte-Hélène', *M. Durvile s.n.* (?P, holo.).

*Sphaerocionium infortunatum* (Bory) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 35 (1843).

*H. capillaceum* sensu S.Pritch., An alphabetical list of indigenous and exotic plants on the island of St Helena: 18 (1836), non Desv. (1827: 333).

Distribution: St Helena.

**Hymenophyllum capillare** *Desv.* in Mémoires de la Société Linnéenne de Paris 6,2: 333 (Jul. 1827), var. **capillare**.
Type: 'Pend aux abres dans les forests humides Ile Bourbon', *J.M.C. Richard 294* (P00065016, holo.).

*Sphaerocionium capillare* (Desv.) Copel. in The Philippine Journal of Science 67,1: 33 (1938b).

*H. pendulum* Bory in Voyage aux Indes Orientales. Botanique 2,2: 81, pl. 8, fig. 2 (24 May 1834).
Type: "Ile de Mascareigne. N. pendant aux vieux troncs des plus grands arbres des forêts de Mascareigne", *J.B.G.M. Bory de St.-Vincent s.n.* (P00477830, lecto.), designated by Pichi Sermolli (notula in Herb. P 09/1967).

*S. pendulum* (Bory) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 34 (1843).

*H. boryanum* Willd., Species plantarum, edn 4, 5,1: 518, 519 (25–27 Jun. 1810).
Type: 'Habitat in insula Borboniae' *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20240-01 0, ?holo.).

*H. ciliatum* (Sw.) Sw. var. *boryanum* (Willd.) Mett. ex Kuhn, Filices africanae: 39 (Oct. 1868).

*H. boryanum* Willd. var. *majus* Tardieu in Flore de Madagascar et des Comores, 3e Famille—Hymenophyllacées: 14 (Mar. 1951b).

*H. holotrichum* Peter in Feddes Repertorium, Beiheft 40,1: 16, Abhang 1, t. I, figs 3, 4 (1929).
Type: 'DOAfr., Kilimandscharo: Uw üb. Moschi 2 600–2 700 m', *A. Peter 1268 & 1383* (GOET syn.); 'Bismarckhütte am Wasserfall auf der Erde 2800 m', *A. Peter 617* (GOET syn.).

*H. lineare* sensu Sim, The ferns of South Africa: 50, pl. 5 (1892), non Sw. (1801: 100).

Distribution: Burundi, Ethiopia, Madagascar, Réunion, Rwanda.

**Hymenophyllum capillare** *Desv.* var. **alternialatum** *(Pic.Serm.) Faden*, Upland Kenya wild flowers: 28 (1974).

*Sphaerocionium capillare* (Desv.) Copel. var. *alternialatum* Pic.Serm. in Webbia 23,1: 196 (20 Nov. 1968a).
Type: 'Kenya, Kathita Ricer, Mt. Kenya (NE sector), 9900 ft., locally common on relatively dry rock face in deep shade in forest, 6 Aug. 1949', *E.A.C.L.E. Schelpe 2592* (FI-PS, holo.; BM, BR, P00511819!, iso.).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan), DRC, Ethiopia, Ghana, Kenya, Madagascar, Malawi, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Tanzania, Uganda, Zimbabwe.

**Hymenophyllum compactum** *Bonap.* in Notes Ptéridologiques 16: 16, 17 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique de Centre, Massif d'Andringitra. Forêt à sous bois herbacé. Sur les troncs. 1 800 mètres d'altitude. Feb. 1922', *H. Perrier de la Bâthie 14505* (P00483488!, holo.; P00483489!, P00483490!, iso.).

Distribution: Madagascar.

**Hymenophyllum deltoideum** *C.Chr.* in Dansk Botanisk Arkiv 7: 10, pl. 2, figs 4, 5 (Oct. 1932b).
Type: Madagascar. Bassin du Mangoro, épiphyte vers 300 m alt. Oct. 1927, *H. Perrier de la Bâthie 18151* (BM, holo.; P00483491!, iso.).

*H. deltoideum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 18 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Hymenophyllum digitatum** *(Sw.) Fosberg* in Fosberg & Sachet, Smithsonian Contributions to Botany 45: 1 (1980).

*Trichomanes digitatum* Sw., Synopsis filicum: 370 (Mar.–Apr. 1806b).
Type: 'Habitat in Ins. Franciae et Borboniae', *sine coll. s.n.* (not located).

*Microtrichomanes digitatum* (Sw.) Copel. in The Philippine Journal of Science 67,1: 36 (1938b).

*T. digitatum* Sw. var. *uluguruense* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 912 (1933).
Type: 'Uluguru-Gebirge: NW., Bondua, ± 1 800 m, Nebelwald, an feuchter Felswand deckend (25 November 1932)', *H.J. Schlieben 3028* (B20 0104376!, holo.; B20 0104375!, iso.).

Distribution: Mauritius, Madagascar, Réunion.

**Hymenophyllum fumarioides** *Bory ex Willd.*, Species plantarum, edn 4, 5,1: 526 (25–27 Jun. 1810).
Type: 'Habitat in sylvis insulae Mauritii, Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20229-01 0, holo.).

*Mecodium fumarioides* (Willd.) Copel. in The Philippine Journal of Science 67,1: 22 (Sep. 1938b).

Distribution: Madagascar, Tanzania.

**Hymenophyllum heimii** *Tardieu* in Bulletin de la Société Botanique de France 84,7/8: 538, 539, fig. 1 (1937).
Type: 'Cascade d'Ankitso, bassin de la Matitanana Sept. 1934', *R. Heim s.n*. (P00483493!, holo.).

Distribution: Madagascar.

**Hymenophyllum hirsutum** *(L.) Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 99 (1801).

*Trichomanes hirsutum* L., Species plantarum 2: 1098 (1 May 1753).
Type: based on Plumier, Traité des fougères de l'Amerique: t. 50, fig. B (1705), icon.

*Sphaerocionium hirsutum* (L.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 34 (1843).

*T. ciliatum* Sw., Nova genera & species plantarum. Prodromus: 136 (20 Jun.–29 Jul. 1788).
Type: "Habitat in Jamaica", *O. Swartz s.n*. (S, holo.; B-W 20222!, iso.).

*H. ciliatum* (Sw.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 100 (1801).

*S. ciliatum* (Sw.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 34 (1843).

*H. ciliatum* (Sw.) Sw. var. *imbricatum* Bonap. in Notes Ptéridologiques 14: 200 (25 Nov. 1923a).
Type: 'Gabon. Pays Itsogho. Vallée de la Waka. Entre Moubenu et Dizoma. Altitude de 550 mètres. Sur des coussins de mousses au sommet des arbores. Le 24 octobre 1916', *G. Le Testu 2160* (P00483495!, holo.; P00483494!, iso.).

*H. ciliatum* (Sw.) Sw. var. *majus* Tardieu in Humbert, Flore de Madagascar et des Comores, 3e Famille—Hymenophyllacées: 14 (Mar. 1951b).
Type: 'Madagascar, mont Tsaratanana', *H. Perrier de la Bâthie 16451* (?P, holo.).

Distribution: Annobon, Bioko, Cameroon, Central African Republic, Congo, Comoro Isl., Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Madagascar, Mauritius, Mozambique, Réunion, São Tomé, Seychelles, Tanzania, Zimbabwe.

**Hymenophyllum humbertii** *C.Chr*. in Archives de Botanique, Bulletin Mensuel 2,12: 209, 210 (1928).
Type: Madagascar. 'Haute vallée de la Rienana, bassin du Matitanana', *H. Humbert 3351* (BM, holo.; P00483496!, iso.).

*Mecodium humbertii* (C.Chr.) Copel. in The Philippine Journal of Science 67,1: 22 (1938b), p.p.

Distribution: Madagascar.

**Hymenophyllum hygrometricum** *(Poir.) Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 333 (Jul. 1827).

*Trichomanes hygrometricum* Poir. in Encyclopedie méthodique, Botanique 8: 79 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n*. (P00483511!, holo.; P00483512!, iso.).

*Sphaerocionium hygrometricum* (Poir.) Copel. in The Philippine Journal of Science 67,1: 31 (1938b).

*H. elasticum* Bory ex Willd., Species plantarum, edn 4, 5,1: 520 (25–27 Jun. 1810).
Type: 'Habitat in insulae Mauritii et Borboniae arboribus magnis', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20244-01 0, holo.).

*S. elasticum* (Willd.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 34, t. 4, fig. 13 (1843).

*H. flavo-aureum* Bory in Voyage aux Indes Orientales. Botanique 2,2: 84 (24 May 1834).
Type: 'Mascareigne', *J.B.G.M. Bory de St.-Vincent s.n*. (not located).

*H. hygrometricum* (Poir.) Desv. var. *flavo-aurea* (Bory) Mett. ex Kuhn, Filices africanae: 40 (Oct. 1868).

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

**Hymenophyllum inaequale** *(Poir.) Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 335 (Jul. 1827).

*Trichomanes inaequale* Poir. in Encyclopedie méthodique, Botanique 8: 74, 75 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.-M.A du Petit-Thouars s.n*. (P00483501!, holo.).

*T. inaequale* Poir. var. *β* Poir. in Encyclopedie méthodique, Botanique 8: 75 (22 Aug. 1808).
Type: 'l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n*. (P00483518!, holo.).

*Mecodium inaequale* (Desv.) Copel. in The Philippine Journal of Science 67,1: 96 (Sep. 1938b).

*H. gracile* Bory ex Willd., Species plantarum, edn 4, 5,1: 527 (25–27 Jun. 1810).
Type: 'Habitat in sylvis insulae Mauritii', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20231-01 0, holo.).

*Sphaerocionium gracile* (Bory) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 35 (1843).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion, Seychelles, Tanzania.

**Hymenophyllum ivohibense** *Tardieu* in Notulae Systematicae (Paris) 10,1/2: 90, 91 (1941a).
Type: Madagascar. Centre: Ivohibe (Bara), *H. Humbert 3204 bis* (P00483504!, holo.).

Distribution: Madagascar.

**Hymenophyllum kuhnii** *C.Chr*., Index filicum: 363 (30 Dec. 1905), nom. nov. for *H. meyeri* Kuhn (1892: 94), non C.Presl (1843: 31, 50).
Type: As for *Hymenophyllum meyeri* Kuhn.

*H. meyeri* Kuhn in Über die Hochgebirgsflora der tropischen Afrika: 94 (1 Mar. 1892), nom. superfl. [McNeill *et al.* (2006) Art. 52.1], non C.Presl (1843: 31, 50).
Type: 'Kilimandscharo, im Urwald am Südadhang massenhaft von 1 930–2 800 m', *R.F.X.R. von Höhnel 146, 147* (not located), *Ehlers 66* (syn., not located); 'im oberen Urwald um 2500 m, Aug. 1881', *H. Meyer s.n.* (syn., not located); 'am Ruabach 1 900–2 300 m', *H. Meyer 310* (B20 009787!, B20 0092788!, syn.).

*Mecodium kuhnii* (C.Chr.) Copel. in The Philippine Journal of Science 67,1: 19 (1938b).

*H. polyanthos* (Sw.) Sw. var. *kuhnii* (C.Chr.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 40: 156 (1966).

*Trichomanes mildbraedii* Brause ex Brause & Hieron. in Botanische Jahrbücher 53: 376, 377 (1915).
Type: 'Westafrika: Insel Annobon, Gipfel der Santa Mina, Nebelwald, die grössere Art unförmliche Polster an Zweigen bildend, 650 m. ü. M., Oct. 1911', *J. Mildbraed 6701* (B20 0105317, holo.; B20 0105318, P00482605!, iso.).

*H. kuhnii* C.Chr. var. *stenoloba* Bonap. in Notes Ptéridologiques 7: 310 (14 Oct. 1918e).
Type: 'Rungwe. 1 500 mètres d'altitude. Sur les arbes dans la forêt pluviale. Le 23 Septembre 1911', *A. Stolz 83*, p.p. et *897* (P00483513!, holo.); "Nyassa Hochland, station Kyimbila, Fundort: Rungwe, Regenwald auf Bäumen", *A. Stolz 897* (P00511820!, syn.).

*H. henkelii* Sim in South African Journal of Science 20: 309, 310, pl. 9 (Dec. 1923).
Type: 'Rhodesia: On the trunks of trees in wet forest, Inyanga, eastern S. Rhodesia, 6000 ft., Aug. 1920', *I.S. Henkel* sub. *F. Eyles 2559* (K0004356000!, holo.).

*H. mildbraedii* (Brause ex Brause & Hieron.) Alston in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 60 (1944).

*H. polyanthos* (Sw.) Sw. var. *mildbraedii* (Brause ex Brause & Hieron.) Schelpe in Garcia de Orta, Série de Botânica 3,1: 54 (1976).

*M. kuhnii* (C.Chr.) Copel. var. *oblongifolium* G.Kunkel in Nova Hedwigia 6,1/2: 210, pl. 50, t. b (1963c), nom. nud. [McNeill *et al.* (2006) Art. 37.1].
Type: None indicated.

*H. polyanthos* sensu Kuhn, Filices africanae: 41 (Oct. 1868).

Distribution: Angola, Annobon, Bioko, Cameroon, DRC, Equatorial Guinea, Gabon, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Príncipe, Rwanda, São Tomé, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Hymenophyllum mossambicense** *(Schelpe) Schippers* in Fern Gazette 14,5: 187 (1993).

*H. polyanthos* (Sw.) Sw. var. *mossambicense* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 40: 157 (1966).
Type: 'Mozambique, Gorongosa Mtn., near Gogogo Peak, locally frequent on shaded boulder in streambank forest, 5600 ft, 6 July 1955', *E.A.C.L.E. Schelpe 5540* (BOL128007, holo.; BM, iso.).

Distribution: Malawi, Mozambique, Zimbabwe.

**Hymenophyllum parvum** *C.Chr*. in Dansk Botanisk Arkiv 7: 8, 9, pl. 2, figs 1–3 (Oct. 1932b).
Type: Madagascar, Mt. Tsaratanana, on tree-trunks, ± 2 000 m. alt. Jan. 1923, *H. Perrier de la Bâthie 15602* (P00483505!, holo.; P00483506!, iso.).

Distribution: Madagascar, Réunion.

**Hymenophyllum peltatum** *(Poir.) Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 333 (Jul. 1827).

*Trichomanes peltatum* Poir. in Encyclopedie méthodique, Botanique 8: 76 (22 Aug. 1808).
Type: "Habitat in insulae Borboniae montibus mille orgyas supra mare elevatis, ad rupes humidas", *J.B.G.M. Bory de St.-Vincent s.n*. (P, holo.).

*Meringium peltatum* (Poir.) Copel. in The Philippine Journal of Science 67,1: 98 (1938b).

*H. unilaterale* Bory ex Willd., Species plantarum, edn 4, 5,1: 521, 522 (25–27 Jun. 1810).
Type: 'Habitat in insulae Borbonia montibus mille orgyas supra mare elevatis, ad rupes humidas', *J.B.G.M. Bory de St-Vincent s.n*. (B-W 20225-01 0, holo.).

*H. meyeri* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 31, 50 (1843).
Type: 'Habitat in Capite bonae spei', *J.F. Drège s.n*., β, p.p. (PR?, holo.; BM, S, iso.).

*H. menziesii* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 31, 51 (1843).
Type: 'Habitat in Staatenland', *A. Menzies s.n*. (not located).

*H. peltatum* (Poir.) Desv. var. *menziesii* (C.Presl) C.Chr. in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 6 (1940).

*H. uncinatum* Sim, The ferns of South Africa, edn 2: 81 (1915).
Type: "Tafelberg, XII 1891", *T. Kässer 1007* (PRE0085675, holo.; PRE0592122, iso.).

Chromosome number: diploid, 2n = 36 (Manton & Vida 1968: 364).

Distribution: Crozet Isl., DRC, Gough Isl., Inaccessible Isl., Kenya, Kerguelen Isl., Madagascar, Marion Isl., Mauritius, Prince Edward Isl., Réunion, Rwanda, South Africa, Tanzania, Tristan da Cunha, Uganda.

**Hymenophyllum perrieri** *Tardieu* in Notulae Systematicae (Paris) 10,1/2: 90 (1941a).
Type: Madagascar. 'Centre: Mont Tsaratanana', *H. Perrier de la Bâthie 15606* (P00483507!, holo.).

Distribution: Madagascar.

**Hymenophyllum pollenianum** *Rosenst*. in Mededeelingen van's Rijks-Herbarium 11: 1 (1912).
Type: 'In insula Madagascar. l.l.', *F.P.L. Pollen* et *G.F.P. van Dam s.n*. (not located).

*Meringium pollenianum* (Rosenst.) Copel. in The Philippine Journal of Science 67,1: 42 (Sep. 1938b).

Distribution: Madagascar.

**Hymenophyllum poolii** *Baker* in Journal of the Linnean Society, Botany 15: 413 (1876b).
Type: "Antananarivo, Madagascar, 4/76", *W. Pool s.n.* (K000435610!, holo.).

*Sphaerocionium poolii* (Baker) Copel. in The Philippine Journal of Science 67,1: 34 (1938b).

*H. ferrugineum* Bonap. in Notes Ptéridologiques 9: 39, 40 (10 Feb. 1920a).

Distribution: Madagascar.

**Hymenophyllum sibthorpioides** *(Bory ex Willd.) Mett. ex Kuhn*, Filices africanae: 41 (Oct. 1868).

*Trichomanes sibthorpioides* Bory ex Willd., Species plantarum, edn 4, 5,1: 498 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20204.1!, B-W 20204.2, holo.).

*T. parvulum* Poir. in Encyclopedie méthodique, Botanique 8: 64 (22 Aug. 1808), non Copel. (1933: 145), nec auct.
Type: 'l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n*. (P00065014, holo.; P00065015, iso.).

*Microtrichomanes parvulum* (Poir.) Copel. in The Philippine Journal of Science 67,1: 37 (1938b).

*T. flabellatum* Bory ex Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 325 (Jul. 1827), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Cites *T. flabellula* d'Urv. [Mémoires de la Société Linnéenne de Paris 4: 597 (1829)].

*T. thouarsianum* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 40 (1843).
Type: 'Habitat in insula Borbonia', *L.-M.A. du Petit-Thouars s.n*. (not located).

*H. palmatum* Bosch in Nederlandsch Kruidkundig Archief 4: 385 (1858).
Type: 'île Bourbon', *sine coll. s.n*. (K, iso.).
Notes: a collection from 'île Bourbon' without collector is present in the Kew Herbarium. The collection bears a label in the hand of Van den Bosch and is identified as '*Trichomanes* A (Herb. Mus. Par.) = *Hymenophyllum palmatum* v.d.B. (*Tr. flabellatum* Bory)'. A note by M. Tindale dated 11/1950 suggests it being part of the type.

*T. lepervanchii* Cordem., Flore de l'Ile de la Réunion: 32 (1895), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: unknown to current author.

Distribution: Comoro Isl. (Anjouan), Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Tanzania, Zimbabwe.

**Hymenophyllum splendidum** *Bosch* in Nederlandsch Kruidkundig Archief 5,3: 190, 191 (1863).
Type: 'Africa occidentalis (Ins. Fernando Po)', *G. Mann 332* (BM, holo.; K000435597!, L, iso.).

*H. ciliatum* (Sw.) Sw. var. *splendidum* (Bosch) C.Chr., Index filicum: 368 (30 Dec. 1905).

*Sphaerocionium splendidum* (Bosch) Copel. in The Philippine Journal of Science 67,1: 31 (1938b).

*H. ciliatum* (Sw.) Sw. var. *longilineare* Bonap. in Notes Ptéridologiques 14: 201, 202 (23 Nov. 1923a).
Type: 'Gabon. Pays Itsogho. Au bord de la chute Icima de la rivière Waka, près d'Ocamza. Sur un tronc d'arbre. Le 27 octobre 1916', *G. Le Testu 2164* (P00483516!, holo.; P00170393!, P00483517!, P, 2 unnumbered sheets, iso.).

*H. plumieri* Hook. & Grev., Icones filicum 2,7: pl. 123 (1829b).

Distribution: Bioko, Burundi, Cameroon, DRC, Gabon, Kenya, Malawi, Príncipe, Rwanda, São Tomé, Tanzania, Zimbabwe.

**Hymenophyllum tenellum** *(Jacq.) Kuhn*, Filices africanae: 42 (Oct. 1868).

*Adiantum tenellum* Jacq., Collectanea 3: 287, pl. 21, fig. 3 [1789] (1791).
Type: 'Crescit in insula Borboniae', *sine coll. s.n.* (?W, holo.).

*Meringium tenellum* (Jacq.) Copel. in The Philippine Journal of Science 67,1: 42 (Sep. 1938b).

*Sphaerocionium tenellum* (Jacq.) C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 34 (1843).

*H. ricciifolium* Bory ex Willd., Species plantarum, edn 4, 5,1: 531 (25–27 Jun. 1810), as '*ricciaefolium*'.
Type: 'Habitat in sylvis insulae Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20236-02 0 holo.).

*H. emersum* Baker in Synopsis filicum 10: 451 (Apr. 1868b).
Type: 'Ceylon', *C.P. 3360* (?K, syn.); 'Mauritius', *H. Barkly & A.M. Barkly s.n.* (K!, syn.).
Notes: a specimen at BM labelled "Maur. No. 13" may be an isosyntype. Notes on the sheet are by Baker, and the sheet is said to have come from the H. Barkly and Lady Barkly collection.

Distribution: Mauritius, Réunion.

**Hymenophyllum triangulare** *Baker* in Synopsis filicum 3: 69 (22 Jan. 1867a).
Type: 'Fernando Po', *G. Mann 333* (K000435598!, K000435599!, holo.; P00511821, iso.).

*Meringium triangulare* (Baker) Copel. in The Philippine Journal of Science 67,1: 44 (1938b).

*H. mannianum* Mett. ex Kuhn, Filices africanae: 40 (Oct. 1868).
Type: 'Africa occidentalis; ins. Fernando Po', *G. Mann 333* (K000435599, holo.).

*H. triangulare* Baker subsp. *ulugurense* Kornaś in Bulletin du Jardin Botanique National de Belgique 60,1/2: 165, figs 5, 9, t. a–c (30 Jun. 1990).
Type: 'Tanzania, Uluguru Mts., Lupanga-Kinazi Ridge, 28–29 Nov. 1972', *T. Pócs & Mwanjabe 6836/E* (KRA, holo.; BR, iso.).

Distribution: Bioko, Burundi, Cameroon, DRC, Rwanda, Tanzania.

**Hymenophyllum tunbridgense** *(L.) Sm.* in English botany: 3, pl. 162 (Dec. 1793–Nov. 1794).

*Trichomanes tunbridgense* L., Species plantarum 2: 1098 (1 May 1753).
Provenance: 'Habitat in Anglia, Italia'. Type: Not designated. Proctor (1985: 90) noted that LINN 1253.5 was a post 1753 addition.

*H. alatum* Willd., Species plantarum, edn 4, 5,1: 526 (25–27 Jun. 1810).
Type: "Habitat in America", *Vahl s.n.* (B-W 20196-01 0, holo.).

*H. asperulum* Kunze in Linnaea 9: 109 (1834).
Type: 'Obtegit praerupta humida argillosa ad Talcahuano flor. Chilens. Aprili 1828', *E.F. Poeppig s.n.* (not located).

*H. dregeanum* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 32, 52 (1843).
Type: 'Habitat ad promontorium bonae spei', *J.F. Drège s.n.*, a, p.p. (PR?, holo.; L, iso.).

*H. thomassetii* C.H.Wright in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1906: 170, 171 (1906a).
Type: 'British Central Africa. Mount Mlanje, 2 400 m', *J.F.H. Thomasset s.n.* (K!, holo.).

Chromosome number: diploid, 2n = 26 (Manton & Vida 1968: 364).

Distribution: Gabon, Kenya, Madagascar, Malawi, Mauritius, Mozambique, South Africa, Swaziland, Tanzania, Zimbabwe.

**Hymenophyllum veronicoides** *Bonap.* in Notes Ptéridologiques 9: 43 (23 Aug. 1920a).
Type: 'Madagascar: Région floristique de Centr. Massif de Manongarivo, vers 1 400 mètres d'altitude', *H. Perrier de la Bâthie 7775* (P00483519!, holo.; P iso.).

*Mecodium veronicoides* (C.Chr.) Copel. in The Philippine Journal of Science 67,1: 22 (1938b).

*H. remotipinna* Bonap. in Notes Ptéridologiques 16: 17, 18 (1925a).
Type: Madagascar. 'Région floristique du Centre. massif du Centre. massif d'Andingitra. Brousse ericoïde, sur des rocailles, dans la mousse. Vers 2 200 mètres d'altitude. Février 1922', *H. Perrier de la Bâthie 14509* (P00483508!, holo.; P00483509!, P00483510!, iso.).

Distribution: Madagascar.

**Hymenophyllum viguieri** *Tardieu* in Notulae Systematicae (Paris) 10,1/2: 91 (1941a).
Type: Madagascar. Centre: Ivohibe (Bara), *H. Humbert 3204* (P00483520!, holo.).

Distribution: Madagascar.

## POLYPHLEBIUM

**Polyphlebium** *Copel.* in The Philippine Journal of Science 67,1: 55 (Sep. 1938b). Type: *Polyphlebium venosum* (R.Br.) Copel.; *Trichomanes venosum* R.Br.

*Phlebiophyllum* Bosch in Verslagen en Meededeelingen van de Afdeeling Natuurkunde, Koninklijke Academie van Wetenschappen 11: 321 (1861a). Type: *Trichomanes venosum* R.Br.

*Trichomanes* L. sect. *Phlebiophyllum* (Bosch) Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 52 (1875).

*Trichomanes* L. subgen. *Polyphlebium* (Copel.) Allan, Flora of New Zealand 1: 34 (1961).

**Polyphlebium angustatum** *(Carmich.) Ebihara & Dubuisson* in Ebihara *et al.* in Blumea 51,2: 240 (2006).

*Trichomanes angustatum* Carmich. in Transactions of the Linnean Society of London 12: 513 (1818).
Type: Tristan da Cunha. 'On the rocks', *D. Carmichael s.n.* (BM?, holo.).

*T. tenerum* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger, Botany 1,3,2: 163 [1884] (Mar.–Jun. 1885b).

Chromosome number: tetraploid, 2n = 72 (Manton & Vida 1968: 364).

Distribution: Inaccessible Isl., Tristan da Cunha.

**Polyphlebium borbonicum** *(Bosch) Ebihara & Dubuisson* in Ebihara *et al.* in Blumea 51,2: 240 (2006).

*Trichomanes borbonicum* Bosch in Nederlandsch Kruidkundig Archief 5,3: 158, 159 (1861b).
Type: 'Hab. Ins. Borboniae', *L.H. Boivin 908* (B20 0103881!, lecto.), designated by Schelpe & Anthony (1986: 76); (P00065006, isolecto.).

*Vandenboschia borbonica* (Bosch) G.Kunkel in Nova Hedwigia 6,1/2: 213 (1963c).

*Crepidomanes borbonicum* (Bosch) J.P.Roux, Conspectus of southern African Pteridophyta: 45 (Nov. 2001a).

*T. goetzei* Hieron. in Botanische Jahrbücher 28: 339 (1900a).
Type: 'Süd-Uluguru: im Bergurwald auf Baumstämen zwischen Moos, zwischen 1 200 und 1 800 m ü. M., Nov. 1898', *W. Goetze 194* (B, holo.; BM!, iso.).

Distribution: Bioko, Cameroon, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Swaziland, Tanzania, Zimbabwe.

## TRICHOMANES

**Trichomanes** *L*. Species plantarum 2: 1097 (1 May 1753). Lectotype: *Trichomanes crispum* L., designated by Proctor (1977: 78), typ. cons. (Greuter *et al.* 2000: 225).

*Trichomanes* L. subgen. *Eutrichomanes* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 16 (1843). Lectotype: *Trichomanes crispum* L., designated by Proctor (1977: 78).

*Trichomanes* L. sect. *Pinnata* C.Presl, Hymenophyllaceae. Eine botanische Abhandlung: 16 (1843). Lectotype: *Trichomanes scandens* L., designated by Morton (1968a: 180).

*Gonocormus* Bosch in Verslagen en Mededeelingen van de Afdeeling Natuurkunde, Koninklijke Academie van Wetenschappen 11: 321, 322 (1861a). Type: *Gonocormus prolifer* Prantl.

*Trichomanes* L. subgen. *Gonocormus* (Bosch) C.Chr., Index filicum: 634 (2 Jul. 1906); 634 (20 Aug. 1906); xix (10 Oct. 1906).

*Trichomanes* L. subgen. *Maiora* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 1: 52 (Oct. 1875). Type: *Crepidomanes scandens* (L.) K.Iwats.; *Trichomanes scandens* L.

*Crepidomanes* (C.Presl) C.Presl subgen. *Maiora* (Prantl) K.Iwats. in Acta Phytotaxonomica et Geobotanica 35,4/6: 174 (1984).

**Trichomanes boivinii** *Bosch* in Nederlandsch Kruidkundig Archief 4: 373–375 (1858).
Type: 'Hab. Ins. Ste. Marie (Madagascar)', *L.H. Boivin s.n.* (Herb. de Franqueville).

*T. latipinnulata* Bonap. in Notes Ptéridologiques 9: 28, 29 (10 Feb. 1920a).
Type: Madagascar. 'Règion floristique du Centre. Ank..... Vers 10 mètres d'altitude. Rocailles humides et ombragées, Octobre 1908', *H. Perrier de la Bâthie 7740* (P00466429!, syn.); Madagascar. 'Règion floristique de l'Est. Bassin de Mananjary. Mont Vatovavy. Rocailles humides, Octobre 1911', *H. Perrier de la Bâthie 11544* (P00466428!, syn.); Madagascar. 'Règion floristique de l'Est. Bassin du Mananjary. Mont Vatovavy, 250 mètres d'altitude. Gneiss. Bois. Rocailles sombres et humides, Novembre 1911', *H. Perrier de la Bâthie 11549* (P00466426!, P00466427!, syn.).

*T. cornutum* C.Chr. in Notes Ptéridologiques 12: 18, 19 fig. 6 (2 Jul. 1920c).
Type: 'Madagascar', *L. Humblot 280* (P00466432!, holo.; P00466430!, P00466431!, iso.).

Distribution: Madagascar.

**Trichomanes crispiforme** *Alston* in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 57 (1 Sep. 1944), nom. nov. for *T. crispum* Barter (1860: 20), non L. (1753: 1097).

*Cephalomanes crispiforme* (Alston) G.Kunkel in Nova Hedwigia 6,1/2: 215 (1963c).

*T. crenatum* Bosch in Nederlandsch Kruidkundig Archief 5,3: 203, 204 (1863), non Gilib. (1792: 556), nom. illeg. [McNeill *et al.* (2006) Art. 32.9].
Type: 'Africa occidentalis', *C. Barter s.n.*, Niger Exped. (K000435658, iso.).

*T. crispum* L. var. *lacerum* H.Christ in Bulletin de l'Herbier Boissier, sér. 2, 1,9: 848 (31 Aug. 1901b).
Type: 'Bunga (bassin de la Momboyo, juillet 1900', *L. Gentil s.n.* (not located).

*T. pusillum* sensu Sim, The ferns of South Africa: 54, pl. 6, fig. 2 (1892).

*T. erosum* sensu Sim, The ferns of South Africa, edn 2: 72 (1915).

Distribution: Annobon, Burundi, Cameroon, Congo, DRC, Equatorial Guinea, Gabon, Liberia, Nigeria, Príncipe, Rwanda, São Tomé.

**Trichomanes madagascariense** *(Bosch) T.Moore*, Index filicum 2,20: 230 (1861b).

*Cephalomanes madagascariense* Bosch in Nederlandsch Kruidkundig Archief 4: 351, 352 (1858).
Type: 'Hab. Madagascar', *L.H. Boivin s.n.* (Herb. de Franqueville).

Distribution: Madagascar.

**Trichomanes pachyphlebium** *C.Chr.* in Notes Ptéridologiques 12: 16, 17, fig. 5 (2 Jul. 1920c).
Type: 'Madagascar', *L. Humblot 451* (P00482607!, holo.; K!, P00482606!, iso.).

Distribution: Madagascar.

## VANDENBOSCHIA

**Vandenboschia** *Copel.* in The Philippine Journal of Science 67,1: 51 (1938b). Type: *Vandenboschia radicans* (Sw.) Copel.; *Trichomanes radicans* Sw.

*Trichomanes* L. subgen. *Vandenboschia* (Copel.) Allan, Flora of New Zealand 1: 34 (1961).

**Vandenboschia gigantea** *(Bory ex Willd.) Pic.Serm.* in Webbia 23,1: 197 (20 Nov. 1968a).

*Trichomanes giganteum* Bory ex Willd., Species plantarum, edn 4, 5,1: 514, 515 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20216!, holo.; P00477826, iso.).

Distribution: Bioko, Comoro Isl., Madagascar, Mauritius, Réunion.

**Vandenboschia radicans** *(Sw.) Copel.* in The Philippine Journal of Science 67,1: 54 (1938b).

*Trichomanes radicans* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 97 (1801).
Type: 'Incolit arbores montium Jamaicae', *O. Swartz s.n.* (S, holo.).

*Crepidomanes radicans* (Sw.) K.Iwats. in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,5: 530 (1985).

*T. speciosum* Willd., Species plantarum, edn 4, 5,1: 514 (25–27 Jun. 1810).
Type: "Habitat in Teneriffa", *P.M.A. Broussonet s.n.* (B-W 20215-01 0, holo.).

*T. radicans* Sw. var. *gigantea* (Bory ex Willd.) Mett. ex Kuhn, Filices africanae: 36 (Oct. 1868).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan), DRC, Kenya, Madagascar, Mauritius, Nigeria, Réunion, Rwanda, São Tomé, Tanzania, Uganda.

## GLEICHENIALES *Link*, Handbuch zur Erkennung der nutzbarsten und am häufigsten vorkommen den Gewächse 3: 10 (1833a), as '*Gleicheneae*'

### GLEICHENIACEAE

**Gleicheniaceae** *C.Presl*, Reliquiae haenkeanae 1,1: 70 (Jun.–Nov. 1825), as '*Gleicheniae*'. Based on *Gleicheneae* R.Br. (1810: 160) (unranked).

*Gleicheneae* R.Br., Prodromus florae Novae Hollandiae: 160 (27 Mar. 1810). Type: *Gleichenia* Sm.

*Gleicheniaceae* (R.Br.) C.Presl subfam. *Gleichenioideae* Nakai in Bulletin of the National Science Museum, Tokyo 29: 33 (1950). Type: *Gleichenia* Sm.

*Gleicheniaceae* (R.Br.) C.Presl subfam. *Sticheroideae* Nakai in Bulletin of the National Science Museum, Tokyo 29: 5 (1950). Type: *Sticherus* C.Presl.

*Dicranopteridaceae* Ching in Acta Phytotaxonomica et Geobotanica 3,1: 94 (1954), nom. nud. [McNeill *et al.* (2006) Art. 36.1]. Type: *Dicranopteris* Bernh.

*Dicranopteridaceae* Ching ex Doweld, Prosyllabus tracheophytorum. Tentamen systematis plantarum vascularium (Tracheophyta): X (23 Dec. 2001).

#### DICRANOPTERIS

**Dicranopteris** *Bernh*. in Neues Journal für die Botanik 1,2: 38 [1805] (1806), nom. nov. for *Mertensia* Willd., non Roth (1797: 34—Boraginaceae). Type: *Dicranopteris dichotoma* (Thunb.) Bernh.; *Polypodium dichotomum* Thunb. (now *Dicranopteris linearis* (Burm.f.) Underw.; *Polypodium linearis* Burm.f.).

*Mesosorus* Hassk., Retzia 1,7: 2 (1855). Lectotype: *Mesosurus dichotomus* (Thunb. ex Murray) Hassk.; *Polypodium dichotomum* Thunb., nom. nov. for *Mertensia* Willd., non Roth (1797: 34), designated by Pichi Sermolli (1972: 528).

**Dicranopteris cadetii** *Tardieu* in Bulletin du Muséum d'Histoire Naturelle. Paris. sèr. 4, 4,1/2: 103, pl. 1, t. 1, 2 (1982).
Type: 'La Réunion, La Confiance (St Benoît), massif du Cratère, 300 m', *L.J.T. Cadet 4448* (P00522519, holo.; P00522518, iso.).

Distribution: Réunion.

**Dicranopteris elegantula** *Pic.Serm*. in Webbia 27,2: 402, 404, fig. 5, t. A–D [1972] (28 Feb. 1973a).
Type: 'Congo, Provincia orientale. Sulla rive scoscese che fiancheggiano il fiume Congo presso Yangambi, m 425 c. 5.VIII.1956', *R.E.G. Pichi Sermolli 5250* (FI-PS 20721, holo.; FI-PS 20791, iso.).

Distribution: Congo, Cotê d'Ivoire, DRC, Ghana, Liberia, Sierra Leone.

**Dicranopteris linearis** *(Burm.f.) Underw*. in Bulletin of the Torrey Botanical Club 34: 250 (1907).

*Polypodium lineare* Burm.f., Flora indica: 235, t. 67, fig. 2 (1 Mar.–6 Apr. 1768a).
Type: 'Habitat in Java', 1758, *H. von Santen s.n.* (G-DEL, lecto.), designated by Schelpe & Anthony (1986: 49).

*Gleichenia linearis* (Burm.f.) C.B.Clarke in Transactions of the Linnean Society of London, Botany 1,7: 428 (Feb. 1880).

*Mertensia linearis* (Burm.f.) Fritsch in Bulletin de l'Herbier Boissier, sér. 2, 1: 1092 (1901).

*P. dichotomum* Thunb., Flora japonica: 338, pl. 37 (Aug. 1784).
Type: 'Crescit in montibus Kosido, juxta Nagasaki et alibi', *C.P. Thunberg s.n*. (UPS, holo.).

*D. dichotoma* Bernh. in Neues Journal für die Botanik 1,2: 38 [1805] (1806).

*G. dichotoma* (Thunb.) Hook., Species filicum 1,1: 12 (Mar.1844a).

*G. hermannii* R.Br., Prodromus florae Novae Hollandiae: 161 (1–7 Apr. 1810).

*M. hermannii* (R.Br.) Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 670 (3 Sep. 1814), as '*hermanni*'.

*D. hermannii* (R.Br.) Nakai in Bulletin of the National Science Museum, Tokyo 29: 60 (1950).

*G. rigida* J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 420 (1841).
Type: 'Luzon', *H. Cuming 136* (not located).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl., Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, La Réunion, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Pemba, Príncipe, Rwanda, Seychelles (Mahé).

#### GLEICHENIA

**Gleichenia** *Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 419, fig. 10 (1793), nom. conserv. Type: *Gleichenia polypodioides* (L.) Sm.; *Onoclea polypodioides* L.

*Gleicheniastrum* C.Presl, Gefässbündel im Stipes der Farrn: 30 (1847). Type: *Gleicheniastrum microphylla* (R.Br.) C.Presl; *Gleichenia microphylla* R.Br.

*Gleichenia* Sm. sect. *Diplopterygium* Diels in Die natürlichen Pflanzenfamilien 1,4: 353 (Apr. 1900a). Type: *Polypodium glaucum* Thunb. ex Houtt.; *Gleichenia glauca* (Thunb. ex Houtt.) Hook.

*Diplopterygium* (Diels) Nakai in Bulletin of the National Science Museum, Tokyo 29: 47 (1950). *Diplopterygium glaucum* (Thunb. ex Houtt.) Nakai; *Polypodium glaucum* Thunb. ex Houtt.

*Gleichenia* Sm. subgen. *Diplopterygium* (Diels) Holttum in Reinwardtia 4,2: 261 (1957).

*Gleichenia* Sm. sect. *Orthogleichenia* Nakai in Bulletin of the National Science Museum, Tokyo 29: 34, 38 (1950). Type: *Gleichenia polypodioides* (L.) Sm.; *Onoclea polypodioides* L.

*Gleicheniastrum* C.Presl sect. *Diplopterides* Nakai in Bulletin of the National Science Museum, Tokyo 29: 36 (1950). Type: None designated. Nakai (1950: 43) ascribed three species to this section, *G. boryi*, *G. elongatum* and *G. madagascariense*, none of which were indicated as being the type species.

**Gleichenia boryi** *Kunze*, Die Farrnkräuter 1,7: 162, pl. 70, fig. 1 (11–13 Jul. 1844a), var. **boryi**.
Type: 'Auf den Plateau's im Norden der Insel Bourbon', *P. Lépervanche s.n*. (not located).

*Gleicheniastrum boryi* (Kunze) C.Presl in Die Gefässbündel im Stipes der Farrn: 31 (1847).

Distribution: Réunion.

**Gleichenia boryi** *Kunze* var. **madagascariensis** *(C.Chr.) Tardieu* in Bulletin du Muséum d'Histoire Naturelle. Paris. sér. 4, 4,1/2: 105 (1982).

*Gleichenia madagascariensis* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 64 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1 (d) & Art. 41.3].

*Gleichenia madagascariensis* C.Chr. in Dansk Botanisk Arkiv 7: 173, pl. 69 (Oct. 1932b).
Type: Madagascar. 'Mt. Tsaratanana, silve à lichens, vers 2 000 m., janvier 1923', *H. Perrier de la Bâthie 15525* (BM!, holo.; P00482620!, P00482621!, P00482622!, plus 4 unnumbered sheets, iso.).

*Gleicheniastrum madagascariense* (C.Chr.) Nakai in Bulletin of the National Science Museum, Tokyo 29: 43 (1950).

Distribution: Madagascar.

**Gleichenia elongata** *Baker* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1900: 137 [1900] (1901).
Type: Uganda, Ruwenzori, amongst heather, Butagu, 8000–10000 ft, *G.F. Schott-Elliot 8011* (K, holo.; BM, iso.).

*Gleicheniastrum elongatum* (Baker) Nakai in Bulletin of the National Science Museum, Tokyo 29: 43 (1950).

*Gleichenia ruwenzoriensis* Brause in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 36 (Dec. 1910).
Type: 'Ruwenzori: Butagu-Tal, Ericaceen-Buchwald im Sphagnumteppich mit sehr festen Rhizomen kriechend, ± 3 200 m ü. M., Febr. 1908', *G.W.J. Mildbraed 2564* (B20 0121845, holo.; B20 0121846, B20 0121847, B20 0121848, iso.).

Distribution: DRC, Kenya, Malawi, Rwanda, Tanzania, Uganda.

**Gleichenia polypodioides** *(L.) Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 419, fig. 10 (1793).

*Onoclea polypodioides* L., Mantissa plantarum, altera: 306 (Oct. 1771).
Provenance: 'Habitat ad Cap. b. spei in fissuris rupium summarum montis Tabularis. König 44.' Type: None designated.

*Calymella polypodioides* (L.) Ching in Sunyatsenia 5,4: 288 (30 Oct. 1940b).

*G. argentea* Kaulf., Enumeratio filicum: 36 (Oct. 1824).
Type: "Prom. bon. spei", *L.A. von Chamisso s.n.* (HAL81865, holo.), (Braun 1998: 16).

*G. polypodioides* (L.) Sm. var. *argentea* (Kaulf.) Schltdl., Adumbrationes plantarum 1: 12 (May 1825a).

*G. glauca* Sw., Synopsis filicum: 165, 393 (Mar.–Apr. 1806b).
Type: Loco incero, *sine coll. s.n*. (S, holo.).

*G. glauca* Sw. var. *nudiuscula* Kunze in Linnaea 10: 490 (1836).
Type: "Ad Kromrivier, in alle humida umbrosa, secus rivum, 400–888 p., 1838", *J.F. Drège s.n*. (BM!, lecto.), designated by Roux (1986: 349), (L, W!, iso.).

*Mertensia coeruleoglauca* Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 669 (3 Sep. 1814).
Type: As for *Gleichenia glauca* Sw.

Distribution: Amsterdam Isl., Angola, Burundi, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Réunion, South Africa, Swaziland, Tanzania, Zimbabwe.

## STICHERUS

**Sticherus** *C.Presl*, Tentamen pteridographiae: 51, 52 (Oct. 1836). Type: *Sticherus laevigatus* (Willd.) C.Presl; *Mertensia laevigata* Willd.

*Mertensia* Willd. in Kongliga Svenska Vetenskaps Academiens Handlingar 25: 165 (1804b), nom. illeg., non Roth (1797: 34). Type: *Mertensia dichotoma* (Thunb. ex Murray) Willd., lecto., designated by Bernhardi (1806: 38).

*Gleichenia* Sm. subgen. *Mertensia* Hook., Species filicum 1,1: 4 (Mar. 1844a), non *Mertensia* Willd. (1804b: 163). Type: *Gleichenia laevigata* (Willd.) Hook., now *Gleichenia truncata* (Willd.) Spreng.

*Gleichenia* Sm. subgen. *Mertensia* Hook. sect. *Holopterygium* Diels in Die natürlichen Pflanzenfamilien 1,4: 353 (Apr. 1900a). Type: *Gleichenia pubescens* (Willd.) Hook. & Baker, now *Gleichenia furcata* (L.) Spreng.; *Acrostichum furcatum* L.

*Sticherus* C.Presl sect. *Holopterygium* (Diels) Nakai in Bulletin of the National Science Museum, Tokyo 29: 12, 13 (1950).

**Sticherus flagellaris** *(Bory ex Willd.) Ching* in Sunyatsenia 5,4: 283 (30 Oct. 1940b), subsp. **flagellaris**.

*Mertensia flagellaris* Bory ex Willd., Species plantarum, edn 4, 5,1: 74 (25–27 Jun. 1810).
Type: "L'entre deux du bras de Mantauban, en allant vers la plaine des chicots. Ile de Mascareignes, 7 à 800 toises par terre", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19469!, holo.; P00477801!, iso.).

*Gleichenia flagellaris* (Bory ex Willd.) Spreng., Systema vegetabilium, edn 16, 4,1: 25 (Jan. 1827).

*G. muricata* (Kaulf.) Spreng., Systema vegetabilium, edn 16, 4,1: 27 (Jan. 1827).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion.

**Sticherus flagellaris** *(Bory ex Willd.) Ching* subsp. **tomentosus** *(Reimers) Verdc*. in Flora of tropical East Africa, Gleicheniaceae: 4 (15 Jun. 2000b).

*Gleichenia flagellaris* (Bory ex Willd.) Spreng. var. *tomentosa* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 941 (1933).
Type: 'Uluguru-Gebirge: Zentraler Teil. Lukwangule-Plateau, 2 300 m, an der Grenze von Hochwald und Hochweide, 7 Nov. 1894', *F. Stuhlmann 9197* (B20 0122562, syn.); 'Uluguru-Gebirge: NW., Lupanga-Kopf, ca. 2 100 m, Nebelwald, sehr häufig an sonnigen Stellen, zwischen und über Sträucher kletternd, 12 Nov. 1932', *H.J. Schlieben 2979* (B20 0122564, syn.).

*G. pubescens* sensu Hieron. in Botanische Jahrbücher 28: 348 (1900a), non Kunth (1816: 29).

Distribution: DRC, Rwanda, Tanzania.

**Sticherus inflexus** *Pic.Serm*. in Webbia 27,2: 397, 399, fig. 3, t. A, B, 4, t. A, B [1972] (28 Feb. 1973a).
Type: 'Ruanda: Monti a sud-est del lago Kivu a 48 km da Bukavu lungo la strada per Astrida. Sulle balze rocciose che fiancheggiano la strada, m 2 400 circa. 15.VIII.1956', *R.E.G. Pichi Sermolli 5314* (FI-PS 20807, holo.; B20 0130186, FI-PS 20782, iso.).

Distribution: DRC, Rwanda, Tanzania.

**Sticherus umbraculiferus** *(Kunze) Ching* in Sunyatsenia 5,4: 285 (30 Oct. 1940b).

*Mertensia umbraculifera* Kunze in Linnaea 18: 114 (1844b).
Type: 'Ad ripam graminosam Omnaroti fluvii prope domicil. Hans de Lange in portu Natalensi, Febr. 1842', *W. Gueinzius s.n*. (LZ†).

*Gleichenia umbraculifera* (Kunze) T.Moore, Index filicum 2,32: 384 (Sep. 1862d).

Distribution: South Africa, Swaziland, Zimbabwe.

See Plate 3B.

## SCHIZAEALES *Schimp*., Traité de paléontologie végétale 1: 674 (1 Mar. 1869)

## ANEMIACEAE

**Anemiaceae** *Link*, Filicum species: 23 (3–10 Sep. 1841). Type: *Anemia* Sw.

*Mohriaceae* C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 168 (11 May 1948). Type: *Mohria* Sw.

### ANEMIA

**Anemia** *Sw*., Synopsis filicum: 6, 155 (Mar.–Apr. 1806b), nom. conserv. Type: *Anemia phyllitidis* (L.) Sw.; *Osmunda phyllitidis* L.

*Ornithopteris* Bernh. in Neues Journal für die Botanik 1,2: 40, t. 3, fig. 15a, b [1805] (1806). Type: *Ornithopteris adiantifolia* (L.) Bernh.; *Osmunda adiantifolia* L.

*Anemia* Sw. subgen. *Hemianeimia* Prantl sect. *Tomentosae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen 2: 87 (Oct. 1881). Type: *Anemia tomentosa* (Savigny) Sw.

*Hemianeimia* (Prantl) C.F.Reed subgen. *Eu-Hemianeimia* sect. *Tomentosae* (Prantl) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 160 (Mar. 1948). Type: *Osmunda tomentosa* Sw.

*Coptophyllum* Gardner in London Journal of Botany 1: 133 (1842a). Type: *Anemia bruniifolia* (Gardner) T.Moore; *Coptophyllum bruniifolium* Gardner.

*Anemia* Sw. subgen. *Coptophyllum* (Gardner) C.Presl, Supplementum tentaminis pteridographiae: 79, 80 (1845b).

**Anemia angolensis** *Alston* in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 9, t. 2, 3, fig. A (1954).
Type: 'Angola: Huíla entre rochedos, 5600 ft., Morro de Monhino', *F.M.J. Welwitsch 164* (BM!, holo.; K000116408, LISU, iso.).

*A. schimperiana* C.Presl var. *angustiloba* Bonap. in Notes ptéridologiques 1: 133 (Jul. 1915f).
Type: 'Afrique centrale equatoriale, rives du Lac Tanganyika, sans localite precise, 5 May 1910', *Lechaptois s.n.* (P, holo.).

*Hemianemia schimperiana* (C.Presl) C.F.Reed var. *angustiloba* (Bonap.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 162 (Mar. 1948).

*A. simii* Tardieu var. *angustiloba* (Bonap.) Pic.Serm. in Webbia 9,2: 654 (1954).

*A. schimperiana* sensu Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 278 (Mar. 1901).

Distribution: Angola, DRC, Ethiopia, Somalia, Tanzania.

**Anemia dregeana** *Kunze* in Linnaea 10: 493, 494 (1836), as 'forma *α*'.
Type: "In rupium faucibus nemorosis umbrosis ad Omsamwubo, Febr.", *J.F. Drège s.n.* (LZ†; K!, lecto.), designated by Roux (1986: 350); (BM!, HBG, K000116414, K000116415!, S, iso.).

*A. dregeana* Kunze f. *β* in Linnaea 10: 494 (1836).
Type: "Inter Omsamwubu et Omsamcaba ad catarractam magnam", *J.F. Drège s.n.* (LZ†, K!, lecto.), designated by Roux (1986: 351); (HBG, S, iso.).

Distribution: South Africa, Swaziland.

**Anemia lanipes** *C.Chr*. in Dansk Botanisk Arkiv 7: 177, pl. 71, figs 1–3 (Oct. 1932b).
Type: Madagascar. 'Environs de Fort-Dauphin: forêt de Manantantely, sur rochers granitiques, vers 300 m, 22 Septembre 1928', *H. Humbert 5808* (BM?, holo.).

*A. lanipes* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta 65 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Hemianemia lanipes* (C.Chr.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 162 (Mar. 1948).

Distribution: Madagascar.

**Anemia madagascariensis** *C.Chr.* in Archives de Botanique, Bulletin Mensuel 2,12: 216 (1928).
Type: Madagascar. 'Plateuax et vallées de l'Isalo, gorges de la Sakamarekely et de la Sambalinieto, grès et sables siliceux', *H. Humbert 2857* (BM!, holo.; P00466531, P0466532!, P00477842!, iso.).

*Hemianemia madagascariensis* (C.Chr.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 162 (Mar. 1948).

Distribution: Madagascar.

**Anemia nigerica** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 6 (1956a).
Type: 'S. Nigeria: Ondo District: Carter Peak, Idanre Hills, on rocky slopes in forest of *Hymenodictyon floribundum*', *R.W.J. Keay & C.F.A. Onochie FHI 21562* (BM!, holo.).

Distribution: Nigeria.

**Anemia perrieriana** *C.Chr.* in Dansk Botanisk Arkiv 7: 178, pl. 72, figs 5, 6 (Oct. 1932b).
Type: Madagascar. 'bois rocailleux et très secs, Massif de Manongarivo, vers 1 000 m. d'alt., sur gneiss, avril 1909', *H. Perrier de la Bâthie 7485* (BM!, holo.).

*A. perrieriana* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 65 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Hemianemia perrieriana* (C.Chr.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 157 (Mar. 1948).

Distribution: Madagascar.

**Anemia schimperiana** *C.Presl*, Supplementum tentaminis pteridographiae: 84 (1845b).
Type: 'Habitat in regione Gafta Abyssiniae', *A.F.W. Schimper 1203* (PRC, holo.; BM!, BW, BR, FT, G, K000116409, M, P00466528!, P00466529!, P00466530!, P!, unnumbered sheet, W (not located), iso.).

*A. tomentosa* (Savigny) Sw. var. *schimperiana* (C.Presl) T.Moore, Index filicum 2,6: 70 (Sep. 1857l).

*Hemianemia schimperiana* (C.Presl) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 162 (Mar. 1948).

*A. aethiopica* Pic.Serm. in Webbia 9,2: 654, 657, fig. 5 (1954).
Type: 'Somalia: Paese dei Gherire: Zona tra El Marà e Monte Ellot (6° N, 42° E), 8 Nov.–2 Dic. 1937, riscontrata presso El Maranei luoghi più umidi e come sottobosco prevalente del Bosso', *E. Reghini 3* (FI, holo.).

Distribution: DRC, Eritrea, Ethiopia, Kenya, Madagascar, Sudan, Somalia.

**Anemia sessilis** *(Jeanp.) C.Chr.* in Feddes Repertorium 9: 371 (1911a).
Type: 'Guinea gallica, Futa Djallon, Falaises de Koussi, alt. 700 m, Jan. 1910', *H. Propéguin 15* (P, holo.).

*A. tomentosa* (Savigny) Sw. var. *sessilis* Jeanp. in Bulletin du Muséum d'Histoire Naturelle. Paris. 7: 404 (1910).

Type: 'Vallée de la Kokrima, Koussi', *H. Pobéguin s.n.* (P?, holo.).

*Hemianemia sessilis* (Jeanp.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 157 (Mar. 1948).

Distribution: Benin, Guinea, Nigeria.

**Anemia simii** *Tardieu* in Notulae Systematicae (Paris) 14,3: 208 (Nov. 1952b), p.p.
Type: 'Transvaal, Barberton', Apr. 1911, *G. Thorncroft 959* (P, holo.; PRE0077194-0, iso.).

*A. anthriscifolia* sensu Sim, The ferns of South Africa, edn 2: 308, pl. 164 (1915).

Distribution: Mozambique, South Africa, Zimbabwe.

## MOHRIA

**Mohria** *Sw.*, Synopsis filicum: 6, 159 (Mar.–Apr. 1806b). Type: *Mohria thurifraga* Sw., nom. superfl. (now *Mohria caffrorum* (L.) Desv.; *Polypodium caffrorum* L.).

*Colina* Greene in Erythea 1: 247 (1893), nom. superfl. Type: *Colina caffrorum* (L.) Greene, *Polypodium caffrorum* L., now *Mohria caffrorum* (L.) Desv.
Note: molecular studies by Skog *et al*. (2002: 119–130) and Wikström *et al.* (2002: 35–50) show that *Anemia* and *Mohria* are monophyletic.

**Mohria caffrorum** *(L.) Desv.* in Mémoires de la Société Linnéenne de Paris 6,2: 198, 199 (Jul. 1827).

*Polypodium caffrorum* L., Mantissa plantarum, altera: 307 (Oct. 1771).
Provenance: 'Habitat ad Cap. b. Spei, *Koenig*'. Lectotype: Herb. Linn. No. 1251.67 (LINN), designated by Schelpe & Anthony (1986: 53).

*Adiantum caffrorum* (L.) L.f., Supplementum plantarum: 447 (Apr. 1782).

*Lonchitis caffrorum* (L.) Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 124 (1801).

*Colina caffrorum* (L.) Greene in Erythea 1: 247 (1893).

*Osmunda thurifera* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 105 (1801).
Type: "C.B.S.", *C.P. Thunberg s.n.* (UPS, lecto.), designated by Schelpe & Anthony (1986: 53).

*M. thurifraga* Sw., Synopsis filicum: 159, 385 (Mar.–Apr. 1806b), nom. superfl.

*M. thurifraga* Sw. var. *capensis* Schltdl., Adumbrationes plantarum 1: 12 (May 1825a).
Type: 'Habitat in Promentorio bonae spei in fissuris rupium humentibus summi montis diaboli, in parte septentrionali montis tabularis et in monte Leuwenstraat', *C.H. Bergius s.n.* (B!, 2 sheets, syn.); 'ad Hanglip', *J.L.L. Mund & L. Maire s.n.* (B!, syn.); 'inter Sondags et Vischrivier in montibus rupibusque', *C.P. Thunberg s.n.* (not located).

*Cheilanthes fuscata* Blume, Enumeratio plantarum Javae 2: 136 (15 Dec. 1828).
Type: Cape, erroneously given as 'Crescit in Moluccis', *sine coll. s.n.* (L, holo.).

*M. thurifraga* Sw. var. *achilleifolium* E.J.Lowe, A natural history of new and rare ferns: 104, t. 62B (1862).
Type: A natural history of new and rare ferns, t. 62B, icon.

Chromosome number: diploid, 2n = 76 (Roux 1994a: 97).

Distribution: South Africa.

**Mohria lepigera** *(Baker) Baker* in Annals of Botany (C. König, J. Sims, eds) 5: 498 (1891a).

*Notholaena lepigera* Baker in Journal of Botany, British and Foreign 1884: 53 (1884a), as '*Notochlaena*'.
Type: 'Dzanba, Zambesi-land, 6000–7000 ft, Sept. 1859', *J. Kirk s.n.* (K0004354000!, lecto.), designated by Roux (1995: 2); (K000435401!, BM, isolecto.).

*M. caffrorum* (L.) Desv. var. *multisquamosum* Bonap. in Notes Ptéridologiques 4: 85, 86 (19 May 1917b), as '*multisquamosa*'.
Type: Madagascar. 'Région floristique du Centre. Mont Intangabalala près Ihosy; 1000 mètres d'altitude. Rocailles. Terrains cristallins. Septembre 1911', *H. Perrier de la Bâthie 7894* (P00466527, holo.; P00466526, iso.).

*M. lepigera* (Baker) Baker var. *madagascarica* (Bonap.) Tardieu in Flore de Madagascar et des Comores (Plantes Vasculaires), 8e Famille—Schizéacées: 10 (Jan. 1952a).
Note: Tardieu-Blot (1952a: 10) erroneosly cited the basionym as *M. caffrorum* var. *latisquamosa*.

Distribution: Burundi, DRC, Madagascar, Malawi, Mozambique, Rwanda, Tanzania, Zambia, Zimbabwe.

**Mohria marginalis** *(Savigny) J.P.Roux* in South African Journal of Botany 56,3: 401 (1990b).

*Osmunda marginale* Savigny in Encyclopedie méthodique, Botanique 4,2: 655 (1 Nov. 1798).
Type: "Est fort commun à la Plaine des Cafres, entre les bruyères à pelouse et au pied des pittons surtout du costé le plus ombragé", *P. Commerson s.n.* (P00466525!, lecto.), designated by Roux (1990b: 401); (P00466524!, isolecto.).

*O. thurifraga* Comm. ex Savigny in Encyclopedie méthodique, Botanique 4,2: 655 (1 Nov. 1798), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*O. thurifraga* Comm. ex Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 348 (Sep. 1804a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*M. crenata* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 307 (1811).
Type: 'Habitat in insula Bourboniae', *sine coll. s.n.* (P!, lecto.), designated by Roux (1995: 2).

*M. thurifraga* Sw. var. *borbonica* Schltdl., Adumbrationes plantarum 1: 13 (May 1825a).
Type: 'In insula Borbonia ad rupes montium', *P. Commerson s.n.* (As for *Osmunda marginale* Savigny?); 'In insula Borbonia ad rupes montium', *J.B.G.M. Bory de St.-Vincent s.n.* (As for *Mohria crenata* Desv.?); 'In insula Borbonia ad rupes montium', *L.-M.A. du Petit-Thouars s.n.* (not located).

*M. hirsuta* J.P.Roux in South African Journal of Botany 50,4: 435, figs 1A–E, 2A–C (1984).
Type: 'South Africa, Orange Free State–2828 (Bethlehem): Tsheseng, Qwa Qea, near cave on road to The Sentinel, (–DB)', *J.P. Roux 907* (NBG0146106-0!, holo.; K000116440!, PRE0665014!, iso.).

Chromosome number: diploid, 2n = 76 (Roux 1994a: 97).

Distribution: Lesotho, Malawi, Réunion, South Africa, Zambia.

See Plate 3C.

**Mohria nudiuscula** *J.P.Roux* in South African Journal of Botany 56,2: 266, fig. 1 (1990a).
Type: 'Natal, Weenen Division, damp streambanks in the MnWeni area, Drakensbergen, 2 134 m', *E. Esterhuysen 14523* (NBG0080532-0!, holo.; BOL!, PRE0078690!, iso.).

*M. caffrorum* (L.) Desv. var. *ferruginea* J.E.Burrows & S.M.Burrows, in Burrows in Bothalia 19: 168, fig. 5, t. B1–B3 (1989).
Type: "Natal, (2929) Underberg: Drakensberg Mts, Injasuti, below Woman Grinding Corn, (–AB)', 2 000 m, 28 Dec. 1985", *J.E. & S.M. Burrows 3670* (BOL128008, holo.; K000435402!, PRE0744673, iso.).

Chromosome number: tetraploid, 2n = 152 (Roux 1994a: 97).

Distribution: DRC, Lesotho, Madagascar, Malawi, Mozambique, South Africa, Tanzania, Zambia, Zimbabwe.

**Mohria rigida** *J.P.Roux* in South African Journal of Botany 56,2: 268, figs 3, 4 (1990a).
Type: South Africa. 'Qwa Qwa. At Clarense Sandstone cave on road to the Sentinel, 14 Jan. 1987', *J.P. Roux 1910* (NBG0143712-0!, holo.).

Chromosome number: tetraploid, 2n = 152 (Roux 1994a: 97).

Distribution: Lesotho, South Africa, Swaziland.

**Mohria saxatilis** *J.P.Roux* in South African Journal of Botany 56,3: 399 (1990b).
Type: 'Cape Province: Wupperthal, west-facing cliff near experimental forest plot on road to Heuningvlei, 14/4/1989', *J.P. Roux 2012* (NBG0152085-0!, holo.; K!, PRE0793975!, iso.).

Chromosome number: tetraploid, n = 76 (Roux 1994a: 97).

Distribution: South Africa.

**Mohria vestita** *Baker* in Transactions of the Linnean Society of London, Botany, ser. 2, 2,15: 355 (Oct. 1887b).
Type: Tanzania. 'Kilima-njaro, ad rupium fissuras. 6000 ft.', *H.H. Johnston 25* (K000435399!, holo.).

*M. caffrorum* (L.) Desv. var. *vestita* (Baker) F.Ballard in Kew Bulletin 1954,4: 561 (1954).

Chromosome number: tetraploid, 2n = 152 (Roux 1994a: 97).

Distribution: Angola, Kenya, Lesotho, Madagascar, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Zimbabwe.

## LYGODIACEAE

**Lygodiaceae** *M.Roem*., Handbuch der allgemeinen Botanik 3: 520 (1840), as '*Lygodieae*'. Type: *Lygodium* Sw.

Note: Generally given as *Lygodiaceae* C.Presl, Supplementum tentaminis pteridodraphiae: 98, 99 (1845b).

### LYGODIUM

**Lygodium** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 7 (1801), nom. conserv. Type: *Lygodium scandens* (L.) Sw.; *Ophioglossum scandens* L. (now *Lygodium flexuosum* (L.) Sw.; *Ophioglossum flexuosum* L.).

*Ugena* Cav., Icones et descriptiones plantarum 6,2: 73 (Jan.–May 1801b). Type: *Ugena semihastata* Cav., nom. illeg.; *Lygodium semihastatum* (Cav.) Desv., nom. illeg.

*Vallifilix* Thouars, Genera nova madagascariensia, secundum methodum Jussiaeanum disposita: 1 (17 Nov. 1806).

**Lygodium boivinii** *Kuhn*, Filices africanae: 168, 169 (Oct. 1868).
Type: 'Ins. Nossi-beh ad Madagascariam', *L.H. Boivin s.n*. (not located).

Distribution: Comoro Isl., Madagascar.

**Lygodium japonicum** *(Thunb.) Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 106, 107 (1801).

*Ophioglossum japonicum* Thunb., Flora japonica: 328, 329 (Aug. 1784).
Type: 'Crescit prope Nagasaki, in Kosido et Satsuma', *C.P. Thunberg s.n*. (UPS, holo.).

Distribution: South Africa (naturalised).

**Lygodium kerstenii** *Kuhn*, Filices africanae: 28 (Oct. 1868).
Type: 'Insula Nossi-beh ad Madagascariam, Mart. Apr.1864', *O. Kersten 75* (B20 0097696!, lecto.), designated by Schelpe & Anthony (1986: 56); "Africa orientali pr. Mombas. Exeunte Januario 1865", *O. Kersten 76* (B20 0097695!, syn.).

*L. subulatum* Bojer ex Kuhn, Filices africanae: 170 (Oct. 1868).
Type: Comoro Is., Anjouan, *W. Bojer s.n*. (B, holo.); Ins. Johannae, *W. Bojer s.n*. (not located).

*L. brycei* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1900: 138 [1900] (1901).
Type: 'Rhodesia, Mashonaland near the Portuguese boundary, drift of Renie River, alt. 2 500 ft', *J. Bryce s.n*. (K, holo.).

Distribution: Comores, Madagascar, Mozambique, South Africa, Zambia, Zimbabwe.

**Lygodium lanceolatum** *Desv*. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 307, 308 (1811).
Type: 'Habitat in India orientali', *sine coll. s.n*. (?P, holo.).

*Hydroglossum lanceolatum* (Desv.) Steud., Nomenclator botanicus 2: 205 (Sep.–Oct. 1824).

*Lygodicyon lanceolatum* (Desv.) J.Sm., Ferns: British & Foreign, edn 2: 323 (1877).

*H. madagascariensis* Poir. in Encyclopédie méthodique, Botanique. Supplementum 3,1: 78 (1813).
Type: 'l'île de Madagascar', *P. Commerson s.n*. (P00466544!, ?holo.).

Distribution: Madagascar, Réunion.

**Lygodium microphyllum** *(Cav.) R.Br.*, Prodromus florae Novae Hollandiae: 162 (1–7 Apr. 1810).

*Ugena microphylla* Cav. in Icones et descriptiones plantarum 6,2: 76, t. 595, fig. 2 (Jan.–May 1801b).
Type: 'Habitat passim in insulis Marianis, Philippicis et Samboangan, Praesertim in memorato oppido Nabúa', *L. Née s.n*. (MA, holo.).

*L. scandens* Sw. var. *microphyllum* (Cav.) Bonap. in Notes Ptéridologiques 7: 252 (14 Oct. 1918c).

*L. scandens* sensu Hook. & Baker, Synopsis filicum 10: 437, 438 (Apr. 1868b), p.p.

Distribution: Angola, Benin, Burundi, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Malawi, Mali, Mauritius, Mozambique, Nigeria, Pemba, Senegal, Sierra Leone, South Africa, Sudan, Tanzania.

**Lygodium smithianum** *C.Presl ex Kuhn*, Filices africanae: 169, 170 (Oct. 1868).
Type: 'Fernando Po', *T. Vogel* & *G. Mann 136* (K, syn.); 'Ad flumen Niger', *C. Barter 1913* (K, syn.); 'Angola, Golungo Alto. Reg. 11 da, 1000–2400 p. alt., May 1856', *F.M.J. Welwitsch 81* (K, syn.); 'Congo', *Ch. Smith s.n.* (B20 0121741!, B20 0121742!, BM, syn.).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Cote d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria.

## SCHIZAEACEAE

**Schizaeaceae** *Kaulf.*, Das Wesen der Farrenkräuter: [119] (Jul.–Sep. 1827). Type: *Schizaea* Sm.

*Schizaea* Sm. sect. *Digitatae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen. II. Die Schizaeaceen, morphologish und systematisch bearbeitet: 129 (Oct. 1881). Type: *Actinostachys digitata* (L.) Wall., now *Schizaea digitata* (L.) Sw. (*Acrostichum digitatum* L.).

*Actinostachys* Wall. sect. *Digitatae* (Prantl) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 130 (1948).

### SCHIZAEA

**Schizaea** *Sm.* in Mémoires de l'Academie Royale des Sciences de Turin 5: 419, fig. 9 (1793), nom. cons. Type: *Schizaea dichotoma* (L.) Sm.; *Acrostichum dichotomum* L.

*Lophidium* Rich. in Actes de la société d'histoire naturelle de Paris 1: 114 (1792). Type: *Lophidium latifolium* Rich., now *Schizaea elegans* (Vahl) Sw. (*Acrostichum elegans* Vahl).

*Schizaea* Sm. sect. *Lophidium* (Rich.) Diels in Die natürlichen Pflanzenfamilien 1,4: 363 (Apr. 1900b).

*Ripidium* Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 127 (1801). Type: *Ripidium dichotomum* (G.Forst.) Bernh.; *Acrostichum dichotomum* G.Forst.

*Actinostachys* Wall., A numerical list of dried specimens (1829). Type: *Actinostachys digitata* (L.) Wall.; *Acrostichum digitatum* L. Description from R. Brown, Prodromus florae Novae Hollandiae: 162 (1810).

*Schizaea* Sm. sect. *Actinostachys* (Wall.) Diels in Die natürlichen Pflanzenfamilien 1,4: 362 (Apr. 1900b).

*Schizaea* Sm. sect. *Digitatae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen II. Die Schizaeaceen, morphologish und systematisch bearbeitet: 129 (Oct. 1881). Type: *Schizaea digitata* (L.) Sw.; *Acrostichum digitatum* L.

*Actinostachys* Wall. sect. *Digitatae* (Prantl) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 130 (1948).

*Schizaea* Sm. sect. *Pectinatae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen II. Die Schizaeaceen, morphologish und systematisch bearbeitet: 129 (Oct. 1881), p.p. Type: *Schizaea pectinata* (L.) Sw.; *Acrostichum pectinatum* L.

*Schizaea* Sm. sect. *Bifidae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen II. Die Schizaeaceen, morphologish und systematisch bearbeitet: 2: 129 (Oct. 1881). Type: *Schizaea bifida* Sw.

*Schizaea* Sm. sect. *Eu-Schizaea* Hook. B. *Bifidae* (Prantl) Diels in Die natürlichen Pflanzenfamilien 1,4: 363 (Apr. 1900b).

*Schizaea* Sm. sect. *Dichotomae* Prantl, Untersuchungen zur Morphologie der Gefässkryptogamen II. Die Schizaeaceen, morphologish und systematisch bearbeitet: 129 (Oct. 1881). Type: *Schizaea dichotoma* Sm.

*Schizaea* Sm. sect. *Schizaea* C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 119 (1948), as *'Eu-Schizaea'*. Type: *Schizaea dichotoma* (L.) Sm.; *Acrostichum dichotomum* L.

*Schizaea* Sm. subgen. *Paraschizaea* C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 120, 121 (1948).

*Microschizaea* C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 133 (1948). Type: *Microschizaea fistulosa* (Labill.) C.F.Reed; *Schizaea fistulosa* Labill.

*Microschizaea* C.F.Reed sect. *Laeves* C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 134 (1948). Type: *Microschizaea fistulosa* (Labill.) C.F.Reed; *Schizaea fistulosa* Labill.

**Schizaea confusa** *Selling* in Svensk Botanisk Tidskrift 41,4: 432, 434, figs 1, 2 (1947).
Type: 'Madagascaria et Ins. Sechellae', *E.P. Wright s.n.* (BM, holo.).

Distribution: Madagascar, Seychelles.

**Schizaea dichotoma** *(L.) Sm.* in Mémoires de l'Academie Royale des Sciences de Turin 5: 422, fig. 9 (1793).

*Acrostichum dichotomum* L., Species plantarum 2: 1068 (1 May 1753).
Provenance: 'Habitat in China'. Lectotype: 'Cochine branched Comb Fern' in Petiver, Gazophylacium naturae, 7, t. 70, fig. 12 (1709), designated by Holttum (1959b: 41). Typotype: Herb. Sloane 163: 43 (BM-SL).

*Osmunda dichotoma* (L.) Spreng. in Journal für die Botanik (H.A. Schrader, ed.) 1799,2: 268 (1800).

*S. forsteri* Spreng., Anleitung zur Kenntniss der Gewächse 3: 157 (7 Sep. 1804).
Type: New Caledonia, *Forster s.n.* (not located.).

*S. cristata* Willd., Species plantarum, edn 4, 5,1: 88 (25–27 Jun. 1810).
Type: 'Habitat in Societatis insulis', *sine coll. s.n.* (B-W 19491-01 0, holo.).

Distribution: Madagascar, Mauritius, Réunion, Tanzania.

**Schizaea digitata** *(L.) Sw.*, Synopsis filicum: 150, 380, t. 4, fig. 1 (Mar.–Apr. 1806b).

*Acrostichum digitatum* L., Species plantarum 2: 1068 (1 May 1753).
Provenance: 'Habitat in Zeylona'. Lectotype: Herb. Hermann 2: 73, No. 379 (BM000621756), designated by Holttum (1959b: 41).

*Actinostachys digitata* (L.) Wall. ex C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 130 (Mar. 1948).

Distribution: Seychelles.

**Schizaea pectinata** *(L.) Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 102 (1801).

*Acrostichum pectinatum* L., Species plantarum 2: 1068 (1 May 1753).
Provenance: 'Habitat in Aethiopia'. Lectotype: Herb. Linn. No. 1245.2 (LINN), designated by Schelpe & Anthony (1986: 51).

Distribution: Malawi, Mozambique, South Africa, Swaziland, Tanzania, Zimbabwe, Madagascar.

**Schizaea tenella** *Kaulf.*, Enumeratio filicum: 50, pl. 1, fig. 7 (Oct. 1824).
Type: 'Habitat in Promontorio bonae spei', *L.A. von Chamisso s.n.* (B!, holo.).

*Microschizaea tenella* (Kaulf.) C.F.Reed in Boletim da Sociedade Broteriana, sér. 2, 21: 134 (Mar. 1948).

Distribution: South Africa.

See Plate 3D.

## SALVINIALES *Link*, Hortus regius botanicus berolinensis 2: 155 (Jul.–Dec. 1833b), as '*Salviniaceae*'

## MARSILEACEAE

**Marsileaceae** *Mirb*. in Histoire naturelle des végétaux, classés par familles 5: 126 (21 Nov. 1802c), as '*Marsileae*'. Type: *Marsilea* L.

*Pilulariaceae* Mirb. ex DC., Essai sur les propriétés médicinales des plantes: 48 (Jul. 1804), as '*Pilulariae*'.

### MARSILEA

**Marsilea** *L*., Species plantarum 2: 1099 (1 May 1753), nom. cons. Type: *Marsilea quadrifolia* L.

*Zaluzianskya* Neck. in Historia et commentationes Academiae Electoralis Scientiarum et Elegantorum Literarum Theodoro-Palatinae 3: 303 (1775). Type: Not determined, but the name is used superfluously for *Marsilea* L. by Kuntze (1891: 822, 823).

**Marsilea aegyptiaca** *Willd*., Species plantarum edn 4, 5,1: 540 (25–27 Jun. 1810).
Type: "Habitat in Aegypto", *sine coll. s.n.* (B-W 20256-01 0, ?holo.).

*Zaluzianskya aegyptiaca* (Willd.) Kuntze in Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Algeria, Botswana, Egypt, Ethiopia, Libya, Madagascar, Mauritania, Morocco, Namibia, Sudan, Tunisia.

**Marsilea aethiopica** *Launert* in Garcia de Orta, Série de Botânica 6,1, 2: 128, pl. 5, fig. 25A–D (1984).
Type: "Eritrea-Amasen lugo un fosso ascuitto presso Medrizien, 23.1.1902", *A. Pappi 3549* (BM!, holo.; FT, iso.).

Distribution: Egypt, Eritrea, Ethiopia.

**Marsilea apposita** *Launert* in Senckenbergiana Biologica 49,3/4: 306, fig. 75, map 2 (1968).
Type: 'Rhodesia, Matopo Hills, X. 1905', *L. Gibbs 289* (BM!, holo.; BOL, iso.).

Distribution: South Africa, Zimbabwe.

**Marsilea berhautii** *Tardieu* in Notulae Systematicae (Paris) 15,1: 85 (1955b).
Type: 'Sénégal; Tambacounda, bassin de la Gambie, mare latéritique de Maël', *J. Berhaut 901* (P00483214, holo.).

Distribution: Burkina Faso, Gambia, Nigeria, Senegal.

**Marsilea botryocarpa** *F.Ballard* in Hooker's Icones Plantarum: 36,4: pl. 3600 (1962).
Type: 'Kenya. Kwale District: near Taru, between Samburu and Mackinon Road, in damp depression on sany track in *Acacia-Commiphora* thornbush, 8 Sept. 1953', *R.B. Drummond & J.H. Hemsley 4211* (K000435868, holo.; K000435869, iso.).

Distribution: Kenya.

**Marsilea burchellii** *(Kunze) A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 429 (1864a).

*M. quadrifolia* L. var. *burchellii* Kunze in Linnaea 10: 556 (1836).
Type: 'In Africa australi', *W.J. Burchell*, Cat. no. 1625 (as *M. minuta*).

*Zaluzianskya burchellii* (Kunze) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. macrocarpa* C.Presl var. *burchellii* (A.Braun) Sim, The ferns of South Africa, edn 2: 315, pl. 172, fig. 2 (1915).

*M. biloba* Willd., Species plantarum, edn 4, 5,1: 540, 541 (25–27 Jun. 1810).
Type: 'Habitat ad Cap. b. spei prope Musselbay', *sine coll. s.n*. (B20 0115512!, ?holo.).

*M. quadrifolia* L. var. *β* Kunze in Linnaea 10: 555 (1836).
Type: As for *Marsilea biloba* Willd. (1810: 540, 541).

*M. macrocarpa* C.Presl var. *biloba* (Willd.) Sim, The ferns of South Africa, edn 2: 315, pl. 172, fig. 3 (1915).

Distribution: South Africa.

**Marsilea capensis** *A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 428 (1864a).
Type: 'Die gemeinste Art am Vorgebirge der guten Hoffnung', *J.F. Drège s.n*. (B20 0115537!, lecto.), designated by Launert (1968: 310).

*Zaluzianskya capensis* (A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. macrocarpa* C.Presl var. *capensis* (A.Braun) Sim, The ferns of South Africa, edn 2: 316 (1915).

Distribution: Egypt, Namibia, South Africa, Zambia.

**Marsilea coromandelina** *Willd*., Species plantarum, edn 4, 5,1: 539 (25–27 Jun. 1810).
Type: "Habitat in India", *H. Klein s.n.* (B-W 20253!, holo.).

*Zaluzianskya coromandelina* (Willd.) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891), as '*coromandelica*'.

*M. pygmaea* Brongn. in Dictionnaire classique d'histoire naturelle 10: 199 (5 Jul. 1826), as '*pygmea*'.
Type: "Sénégambie", *F.M.R. Leprieur s.n*. (P00483216, holo.).

*M. trichopoda* Lepr. in Flora 1839,19: 300 (1839), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Note: Leperieur lists this name in a table compiled by A. Braun where the species known to him are arranged according to the number and position of the sporocarps.

*M. trichopoda* Lepr. ex A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 422 (1864a).
Type: 'Senegambien', *F.R. Leprieur s.n*. (P00483215, holo.).

*Z. trichopoda* (Lepr. ex A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. muscoides* Lepr. ex A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 422, 423 (1864a).
Type: "Sénégal", *F.R. Leperieur 182* (P00483218, P00483219, syn.); "Sénégal", *G.S. Perrottet s.n*. (P00483217, syn.).

*M. microphylla* C.Chr. in Dansk Botanisk Arkiv 7: 180, pl. 73, figs 8, 9 (Oct. 1932b).
Type: Madagascar. 'Marais saumâtres, près de Soalala, Ambongo', *H. Perrier de la Bâthie 7188*, p.p. (BM!, holo.).

*M. trichocarpa* Bremek. in Annals of the Transvaal Museum 15: 234 (1933).
Type: 'Vivo-vlei, 20 Jan. 1931', *C.E.B. Bremekamp & H.G.W.J. Schweickerdt 193* (PRE0080079, holo.; BM, PRE0592123, PRE0592124, iso.).

Distribution: Angola, Burundi, Cape Verde Isl. (Boavista), Eritrea, Guinea-Bissau, Madagascar, Mauritania, Namibia, Senegal, South Africa, Sudan, Socotra, Tanzania.

**Marsilea distorta** *A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 433, 434 (1864a).
Type: "Senegambie, in inundatis umbrosis, ad aquas stagnant, in sylvis planitierum regio Walo", *F.R. Leprieur s.n*. (B, holo.; FR, L, P00483221, iso.).

*Zaluzianskya distorta* (A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Liberia, Mauritania, Namibia, Senegal, Sudan, Tanzania, Zimbabwe.

**Marsilea ephippiocarpa** *Alston* in Journal of Botany, British and Foreign 68: 118, 119, fig. 1 (1930).
Type: 'Southern Rhodesia, near Fort Victoria, Aug. 9, 1929, in bed of rocky, almost dry drift on sandy veld', *A.B. Rendle 306* (BM, syn.); 'on sandy flats near bed of almost dry rocky drift, near Fort Victoria', *A.B. Rendle 307* (BM!, syn.).

Distribution: Angola, Botswana, Namibia, South Africa, Zambia, Zimbabwe.

**Marsilea fadeniana** *Launert* in Garcia de Orta, Série de Botânica 6,1/2: 126 (1984), nom. nov. for *M. glomerata* Launert, non C.Presl (1845a: 580).
Type: as for *Marsilea glomerata* Launert.

*M. glomerata* Launert in Senckenbergiana Biologica 52,6: 449–451, figs 1–3 (1971), non Presl (1945a: 580).
Type: 'Kenya (K7), Kwale District, Mombassa road, south side, 2.8 km Samburu-Mac Kinnon road, ± 390 m, 29 May 1971', *A. Evans & J. Maikweri 55* (BM!, holo.; BOL, BR, EA, FR, GE, K, LISC, M, US, iso.).

Distribution: Kenya.

**Marsilea farinosa** *Launert* in Senckenbergiana Biologica 49,3/4: 298, figs 41–46, 70, 71 (31 Jul. 1968), var. **farinosa**.
Type: 'SW-Africa, Grootfontein, 13. VII. 1934', *E.B.W. Schönfelder s.n*., Herb. *Dinter 7688* (M, holo.; B20 0115789!, BM!, BOL, FR, K, PRE0080075, PRE0080076, iso.).

Distribution: Angola, Botswana, Ethiopia, Kenya, Namibia, South Africa, Tanzania, Zimbabwe.

**Marsilea farinosa** *Launert* var. **arrecta** *J.E.Burrows* in Bothalia 19: 169 (1989).
Type: 'Transvaal, (2328) Baltimore: 40 km S of Groblersbrug on Potgietersrus road (–AA)', *J.E. Burrows 3597* (BOL128057, holo.; J, K, PRE0747580, iso.).

Distribution: Botswana, South Africa.

**Marsilea fenestrata** *Launert* in Mitteilungen der Botanischen Staatssammlung München 3: 507 (1960).
Type: South Africa. 'Zululand: Lower Umfolozi-Distr., Umfolozi Game Reserve', *C.J. Ward 2458* (BOL128056, holo.; BM!, iso.).

Distribution: Mozambique, South Africa, Swaziland.

**Marsilea gibba** *A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 745, 746 (1871).
Type: Sudan, Agada, 6 Oct. 1862, *G.A. Schweinfurth 2462* (B20 0115797!, holo.; BM!, FR, M, iso.).

*Zaluzianskya gibba* (A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Angola, Burkina Faso, Chad, Central African Republic, Congo, Eritrea, Kenya, Mali, Rwanda, Sudan, Tanzania, Uganda.

**Marsilea macrocarpa** *C.Presl* in Abhandlungen der Königlichen Böhmischen Gesellschaft der Wissenschaften, ser. 5, 3: 580 (1845a).
Type: "Prom. bon. spei", *J.F. Drège*, a & b (PRC, holo.; B20 0115892!, iso.).

*Zaluzianskya macrocarpa* (C.Presl) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. dregeana* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 428 (1864a).
Type: 'Am Vorgebirge der guten Hoffnung', *J.F. Drège s.n*. (B20 0115888!, holo.; B20 0115892!, iso.).

*M. rotundata* A.Braun in Filices africanae: 200 (Oct. 1868d).
Type: 'Angola, districtus Huilla, in stagnis juxta rivum de Mumpulla', *F.M.J. Welwitsch 171* (B20 0116294!, holo.; BM!, P00483222, iso.); 'In Angolae districtu Zenza de Golungo, in rivulo dicto Ribeira de Muchao', *F.M.J. Welwitsch 40* (B20 0116293!, BM!, syn.).

*M. fischeri* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 90 (Jun. 1895).
Type: 'Massailand', E.-Africa, Marsain, *S. Fischer 677* (B20 0115795!, holo.; BM!, iso.).

*M. macrocarpa* C.Presl var. *dissecta* Sim, The ferns of South Africa, edn 2: 316, pl. 172, fig. 5 (1915).
Type: 'Uitenhage', *R. Schlechter 2536* (not located).

*M. macrocarpa* C.Presl var. *lobata* Sim, The ferns of South Africa, edn 2: 316, pl. 172, fig. 6 (1915).
Type: 'Bulawayo, 4500 ft, June', *F. Eyles 26* (not located).

Distribution: Angola, DRC, Kenya, Namibia, Tanzania, South Africa, Uganda, Zimbabwe.

See Plate 3F.

**Marsilea megalomanica** *Launert* in Senckenbergiana Biologica 51,5/6: 433–435, figs 1–4 (1970).
Type: 'Kenya, Isolo Distr., halfway between Dodolo Boke and Yamicha, 1°37'N, 38°48'E', *H. van Swinderen Is/83* (BM!, holo.; BOL128054, EA, FR, GDOR, US iso.).

Distribution: Kenya.

**Marsilea minuta** *L*., Mantissa plantarum, altera: 308 (Oct. 1771), var. **minuta**.
Provenance: 'Habitat in India orientali'. Lectotype: Herb. Linn. No. 1254.6 (LINN), designated by Launert (1968: 291).

*Zaluzianskya minuta* (L.) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. fimbriata* Schumach., Beskrivels af Guineeiske planter: 461 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 235, seors. 461 (1829).
Type: "I. Guineae ad paludes ac dulo. 87", 1787, *Isert s.n.* (C, holo.).

*M. crenulata* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 179 (Jul. 1827).
Type: 'Habitat in humidis locis insulae Mascareigne', *sine coll. s.n*. (P00483224, holo.).

*Z. crenulata* (Desv.) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. polycarpa* Hook. & Grev., Icones filicum 2,8: pl. 160 (1829c).
Type: 'In fossis, apud Demerara', *C.S. Parker s.n.* (not located).

*M. vulgaris* Bory in Voyage aux Indes Orientales. Botanique 2,1: 3 (25 May 1833).
Type: 'Les lieux marécaqeux et aquatiques du qartier des Pamplemousses à l'île Maurice', *sine coll. s.n*. (not located).

*M. diffusa* Lepr. ex A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 419 (1864a).
Type: 'Senegambie', 1829, *Lelièvre s.n*. (B, holo.; P00483225, iso.).
Note: B20 0115661 may be eligible as a type.

*Z. diffusa* (Lepr. ex A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. diffusa* Lepr. ex A.Braun var. *cornuta* A.Braun in Filices africanae: 199 (Oct. 1868d).
Type: 'Angola, Mossamedes, Bero prope Caponda (?Cabonda) and Cavalheiros, June 1859', *F.M.J. Welwitsch 173* (B20 0115557!, B20 0115558!, holo.; BM, BO, iso.).

*M. diffusa* Lepr. ex A.Braun f. *algeriensis* A.Braun, Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 727 (1871).
Type: Algeria. 'Campagne Fourxhault unweit rassaunt in der Ebene Meditja bei Algier', *A. Letourneux s.n*. (B20 0115626!, holo.).

*M. diffusa* Lepr. ex A.Braun f. *madagascariensis* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 727 (1871).
Type: 'Madagascar, 1841', *A. Pervillé 358* (B20 0115706!, B20 0115707!, P, syn.); 'Insel Nossi-beh, 1849', *L.H. Boivin 1959* (P, syn.).

*M. diffusa* Lepr. ex A.Braun f. *microphylla* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 727 (1871).
Note: three collections at the Berlin Herbarium, B 20 0115653, B20 0115656, B20 0115689, may be authentic.

*M. diffusa* Lepr. ex A.Braun f. *gracilipes* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 728 (1871).
Type: "Sénégambie", *J. Heudelot s.n*. (B20 0115648!, lecto.), here designated.

*M. diffusa* Lepr. ex A.Braun f. *nilotica* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 728 (1871).

*M. cornuta* (A.Braun) A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1870: 728, 729 (1871).

*M. diffusa* Lepr. ex A.Braun var. *normalis* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1872: 661 (1873).
Type: From Algeria, *sine coll. s.n.*
Note: a specimen at the Berlin Herbarium, B20 0115647, may be eligible as a type.

*M. diffusa* Lepr. ex A.Braun var. *approximata* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1872: 661 (1873).
Type: Madagascar, 1841, *A. Pervillé s.n*. (B, holo.).
Notes: a specimen from this collection cultivated at Berlin is present at Vienna. Specimens at the Berlin Herbarium, B20 0115706, B20 0115707 or B20 0115689, may be eligible as types.

*M. tenax* Peter in Abhandlungen der Königlichen Gesellschaft der Wissenschaften zu Göttingen. 13,2: 38, 39 (1928).
Type: "Nord Pare: Graspori Njata > Djipesee 715 m", original label; "D-OstAfrika, Landschaft N-Pare: Grassteppe Njatahügel > Djipesee in jetzt trockener Pfütze, ± 715 m. ü. M., X-1915", herbarium label, *A. Peter 14114* (B20 1006325!, lecto.; GOET, BM!, isolecto.); 'Usaramo, Daressalam: am kleinen See von Magomeni', *A. Peter 44570* (B, BM!, GOET, syn.).
Notes: the original label bears the name '*Marsilea pusilla* A. Peter'. The Berlin specimen bears a label in an unknown hand indicating it to be a lectotype.

*M. perrieriana* C.Chr. in Dansk Botanisk Arkiv 7: 179, 180, pl. 73, figs 15, 16 (Oct. 1932b).
Type: Madagascar. 'Bassin de l'Onilahy, eaux sélénite-teuses, May 1910', *H. Perrier de la Bâthie 7185* (BM!, holo.).

Distribution: Algeria, Angola, Benin, Burkina Faso, Burundi, Central African Republic, Comoro Isl. (Anjouan, Mayotte), Congo, DRC, Egypt, Equatorial Guinea, Ethiopia, Ghana, Guinea-Bissau, Kenya, Madagascar, Mali, Mauritius, Mauritania, Morocco, Nigeria, Rwanda, Senegal, Sudan, Tanzania, Togo, Uganda, Zambia, Uganda.

**Marsilea minuta** *L.* var. **incurva** *(A.Braun) Launert* in Garcia de Orta, Série de Botânica 6,1/2: 126 (1984).

*M. diffusa* Lepr. ex A.Braun var. *incurva* A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 419 (1864a), nom. nov. for *M. senegalensis* A.Braun [Flora 20: 300 (1839)], nom. nud.
Type: As for *Marsilea senegalensis*.

*M. crenulata* Desv. var. *incurva* (A.Braun) A.Braun in Filices africanae: 198 (Oct. 1868d).

*M. senegalensis* A.Braun ex Baker, Handbook of the fern-allies: 141 (Jul. 1887d).
Type: 'Senegal', *G.S. Perrottet s.n*. (B, holo.).
Note: a specimen at the Berlin Herbarium, B20 0116296, may be eligible as a type.

*Zaluzianskya senegalensis* (A.Braun) Kuntze in Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. crenulata* Desv. var. *senegalensis* (A.Braun) C.Chr., Index filicum: 419 (12 Feb. 1906).

Distribution: Senegal.

**Marsilea nubica** *A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 432, 433 (1864a), var. **nubica**.
Type: "Ad montem Cordofanum Arasch-Cool in stagnis pluvialibus, 6 Oct. 1839", *C.G.T. Kotschy 126* (B, holo.; BM!, FR, L, M, P00483244!, P00483245!, P00483246!, PRC, iso.).

*Zaluzianskya nubica* (A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. leiocarpa* C.Chr. in Dansk Botanisk Arkiv 7: 180, pl. 73, figs 10–12 (Oct. 1932b).
Type: 'Madagascar. Marais salants, Maevarano près Majunga, Mars 1908', *H. Perrier de la Bâthie 7187* (BM?, holo.; P00483226!, iso.).

Distribution: Angola, Chad, Madagascar, Mauritania, Namibia, Senegal, Sudan, Tanzania.

**Marsilea nubica** *A.Braun* var. **gymnocarpa** *(Lepr. ex A.Braun) Launert* in Garcia de Orta, Série de Botânica 6,1/2: 124 (1984).

*M. gymnocarpa* Lepr. ex A.Braun in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 432 (1864a).
Type: "Senegambie: in sabulosis salsinis inundatis ad ripas fuminis prope Richardtat, Walo", *F.M.R. Leprieur s.n*. (P00483247, P00483253!, P00483254!, holo.; BM, L, iso.).

*Zaluzianskya gymnocarpa* (Lepr. ex A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Angola, Chad, Madagascar, Mauritania, Namibia, Senegal, Sudan, Tanzania.

**Marsilea schelpeana** *Launert* in Mitteilungen der Botanischen Staatssammlung München 3: 506 (1960).
Type: South Africa. 'Kap-Provinz: Port Elizabeth, Korsten in der Nähe der Radio-Station', *R. Liversidge s.n.*, in Herb. Bolus No. 26551 (BOL120043, holo.; PRE0080193, iso.).

Distribution: South Africa.

**Marsilea strigosa** *Willd.*, Species plantarum, edn 4, 5,1: 539, 540 (25–27 Jun. 1810).
Type: "Habitat prope Sareptam", (Caspian Sea area of the U.S.S.R., S of Stalingrad) near the Wolga, *S. Fischer s.n.* (B-W 20254!, holo.).

*Zaluzianskya strigosa* (Willd.) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

*M. pubescens* Ten., Flora napolitana 1, Prodromus florae neopolitanae, Supplementum I, 1: 70 (1811–1815). Type: 'Italy, Basilicata. Bosco di S. Leorardo tra Taranto e Pistini', *M. Tenore s.n.* (NAP, holo.).

*M. strigosa* Willd. var. *pubescens* (Ten.) Maire & Weiller in Encyclopédie Biologique 33: 83, fig. 45 (1952).

Distribution: Algeria, Egypt, Morocco.

**Marsilea subterranea** *Lepr. ex A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 433 (1864a).
Type: "Senegambie", *F.R. Leprieur & G.S. Perrottet 996* (B200116324!, holo.; BM, iso.).

*Zaluzianskya subterranea* (Lepr. ex A.Braun) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Mauritania, Senegal, Tanzania.

**Marsilea unicornis** *Launert* in Senckenbergiana Biologica 49,3/4: 303, figs 53, 54, 74 (31 Jul. 1968).
Type: 'SW-Africa, Tsumeb, IV. 1934', *M.K. Dinter 7585* (M, holo.; BM!, BOL, FR, K, PRE0080086, iso.).

Distribution: Angola, Namibia.

**Marsilea vera** *Launert* in Mitteilungen der Botanischen Staatssammlung München 3: 505 (1960).
Type: 'Südwestafrika: Ovamboland, Olukonda, 2.1.1876', *H. Schinz s.n.* (B20 0116365, holo.).

Distribution: Botswana, Ethiopia, Namibia.

**Marsilea villifolia** *Bremek. & Oberm. ex Alston & Schelpe* in Journal of South African Botany 18,4: 156, 166 (24 Dec. 1952).
Type: as for *Marsilea villosa* Burchell ex Bremek. & Oberm.

*M. villosa* Burchell ex Bremek. & Oberm. in Annals of the Transvaal Museum 16: 400 (1935), nom. superfl., non Kaulf. (1824: 272). [McNeill *et al.* (2006) Art. 52.1]. Type: "Bechuanaland Prot. Pan S of Kopjes, N'Gamiland, 7-V-'30", *G. van Son s.n.*, Herb. Transv. Mus. 1801C (BOL, holo.; B20 0116398!, BM!, NH 27086!, PRE0592121-0, PRE0080095-0, PRE0592120-0, iso.).

*Zaluzianskya villosa* (Kaulf.) Kuntze, Revisio generum plantarum 2: 823 (5 Nov. 1891).

Distribution: Botswana, South Africa.

### PILULARIA

**Pilularia** *L.*, Species plantarum 2: 1100 (1 May 1753). Type: *Pilularia globulifera* L.

**Pilularia americana** *A.Braun* in Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin 1863: 435 (1864a).
Type: North America. 'Arkansas, bei Fort Smith', *T. Nuttal s.n.* (holotype not located; NY, iso.).

Distribution: Ethiopia, South Africa.

**Pilularia minuta** *Durieu* in Exploration scientifique de l'Algérie 1,11: 435, t. 38, figs 1–20 (1848/1849).
Type: unknown to current author.

Distribution: Algeria, Morocco.

## SALVINIACEAE

**Salviniaceae** *Martynov*, Tekhno-Botanicheski i Slovar, ia Latinskom i Rossilskom Yazuikakh: 559 (3 Aug. 1820), as '*Salviniae*'. Type: *Salvinia* Ség.

*Azollaceae* Wettst., Handbuch der systematischen Botanik 2,1: 77–79 (Nov. 1903). Type: *Azolla* Lam.

### AZOLLA

**Azolla** *Lam.* in Encyclopedie méthodique, Botanique 1,1: 343 (2 Dec. 1783). Type: *Azolla filiculoides* Lam.

*Azolla* Lam. sect. *Rhizosperma* (Meyen) Mett. in Linnaea 20: 273 (1847), emend. R.M.K.Saunders & K.Fowler (1993: 189).

*Azolla* Lam. subgen. *Tetrasporocarpia* R.M.K.Saunders & K.Fowler in Plant systematics and evolution 184: 189 (1993). Type: *Azolla nilotica* Decne. ex Mett.

*Rhizosperma* Meyen in Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum 18,1: 523, 524 (1836). Type: *Azolla pinnata* R.Br.

**Azolla caroliniana** *Willd.*, Species plantarum, edn 4, 5,1: 541, 542 (25–27 Jun. 1810).
Type: 'Habitat in aquis Carolinae', *L.C.M. Richard s.n.* (B-W20260-01 0, holo.).

Distribution: Egypt (naturalised).

**Azolla filiculoides** *Lam.* in Encyclopedie méthodique, Botanique 1,1: 343 (2 Dec. 1783).
Type: Straights of Magellan, *P. Commerson s.n.* (P-LA, holo.).

Distribution: Egypt*, Inaccessible Isl., Lesotho*, Morocco*, South Africa* (*naturalised).

See Plate 3E.

**Azolla nilotica** *Decne. ex Mett.* in Plantae tinneanae: 54, pl. 25 (1867).
Type: 'In flumine Leuco-Nilo', *D'Arnaud s.n.* (P00483230!, lecto., designated by Saunders & Fowler (1992: 352); (K!, isolecto.); 'Source of the White Nile', *D'Arnaud s.n.* (P, syn.).

Distribution: Burundi, DRC, Ethiopia, Somalia.

**Azolla pinnata** *R.Br.* subsp. **africana** *(Desv.) R.M.K.Saunders & K.Fowler* in Botanical Journal of the Linnean Society 109,3: 351 (Jul. 1992).

*A. africana* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 178 (Jul. 1827).
Type: 'Crescit in aquis Africanae', *sine coll. s.n.* (P00483231, lecto.).

*A. pinnata* R.Br. var. *africana* (Desv.) Baker in Journal of Botany, British and Foreign 1886: 101 (1886a).

*A. guineensis* Schumach., Beskrivels af Guineeiske planter: 462 (1827), prepr. from in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 236 (1829).
Type: 'Guinea', *P. Thonning s.n.* (C, holo.).

Distribution: Angola, Botswana, Burundi, Cameroon, Chad, Ethiopia, Gambia, Ghana, Guinea-Bissau, Kenya, Liberia, Madagascar, Mali, Rwanda, Senegal, Sierra Leone, Sudan, Tanzania, Uganda, Zimbabwe.

### SALVINIA

**Salvinia** *Ség*., Plantae veronenses 3: 52 (Jul.-Aug. 1754). Type: *Salvinia natans* (L.) All.; *Marsilea natans* L.

**Salvinia hastata** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 177 (Jul. 1827).
Type: 'Habitat in aquosis insulae Mascareigne', *sine coll. s.n.* (P00483227, holo.).

*S. mollis* Mett. ex Kuhn, Filices africanae: 201 (Oct. 1868).
Type: Madagascaria, *L.-M.A. du Petit-Thouars s.n.* (P, syn.); "Madagascar", *sine coll. s.n.* (B-W 20249.2!, syn.).

*S. hildebrandtii* Baker in Journal of Botany, British and Foreign 1886: 98 (1886a).
Type: Madagascar, *J.M. Hildebrandt 3415* (K000435816, holo.; BM, iso.).

Distribution: Kenya, Madagascar, Malawi, Mozambique, Tanzania.

**Salvinia molesta** *D.S.Mitch*. in The British Fern Gazette 10,5: 251 (21 Mar. 1972).
Type: 'Rhodesia, Lake Kariba, Ruziruhuru River Inlet', *D.S. Mitchell 1330* (SRGH!, holo., B20 0130220, BM, BO, BOL128053, BR, CAL, CHR, EA, GE, GH, K000435815, LISB, LP, M, MO, NSW, P00483228, PDA, PRE0080209, RB, US, WAG, Z, iso.).

*S. auriculata* sensu Schelpe in Journal of South African Botany 27,3: 181–187 (Jul. 1961), non *Salvinia auriculata* Aubl. (1775: 969).

*S. natans* sensu Cadet, Mauritius Institute Bulletin 7,1: 11 (Dec. 1971), non (L.) All. (1785: 289).

Distribution: Botswana, Congo, DRC, Kenya, Mauritius, Mozambique, Namibia, Rodrigues Isl, South Africa, Zambia, Zimbabwe (naturalised).

**Salvinia natans** *(L.) All*., Flora pedemontana 2: 289 (Apr.–Jul. 1785).

*Marsilea natans* L., Species plantarum 2: 1099 (1 May 1753).
Provenance: 'Habitat in Italiae fossis paludosis stagnontibus lente fluentibus.' Lectotype: Herb. Linn. No. 1254.1 (LINN), designated by Bobrov (1984: 20).

Distribution: Algeria.

**Salvinia nymphellula** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 177 (Jul. 1827).
Type: 'Habitat in locis aquosis Africae occidentali', *A.M.F.J. de Palisot de Beauvois s.n.* (P00483229, holo.).

*S. nigropunctata* A.Braun in Kuhn, Filices africanae: 201 (Oct. 1868).
Type: 'Ad flumen Niger', *C. Barter 303* (K, lecto.), designated by Schelpe (1969b: 16).
Notes: specimens other than *Barter 303* are cited in the original description. The citing of *Barter 303* by Schelpe as the type is here taken as a lectotypification.

Distribution: Benin, Gabon, Ghana, Nigeria.

**Salvinia rotundifolia** *Willd*., Species plantarum, edn 4, 5,1: 537 (25–27 Jun. 1810).
Type: 'Habitat in aquis Brasiliae', *J.C. von Hoffmannsegg s.n.* (LZ†, probably destroyed), seen by Herzog (1935: 268).
Notes: B-W 20250 gives two labels, one 'Hoffmansgg W.' and the other '1314 *Marsilea natans* (Humboldt)'. Material on the sheet consists of two fragments. The Hoffmannsegg fragment may be authentic.

Distribution: Congo (naturalised).

## CYATHEALES *A.B.Frank* in Leunis, Synopsis der Pflanzenkunde, edn 2, 3: 1456 (1877), as '*Cyatheaceae*'

### CYATHEACEAE

**Cyatheaceae** *Kaulf*., Das Wesen der Farrenkräuter: [119] (Jul.–Sep. 1827). Type: *Cyathea* Sm.

*Alsophilaceae* C.Presl, Die Gefässbündel im Stipes der Farrn: 22 (footnote), 32 (1847). Type: *Alsophila* R.Br.

### ALSOPHILA

**Alsophila** *R.Br*., Prodromus florae Novae Hollandiae: 158 (1–7 Apr. 1810). Type: *Alsophila australis* R.Br.

**Alsophila acutula** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970), nom. nov. for *Cyathea tsaratanensis* Tardieu, non C.Chr. (1934: 64).

*Cyathea tsaratananensis* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 681, 682 (14 Nov. 1941b).
Type: "Montagnes entre le haut Sambirano et le haut Maivarano (entre Mangindrane et Ampanompia", *H. Humbert 18120* (P00389585, P00389586, syn.); "Massif de Tsaratanana Centre, 1 600 m.", *H. Perrier de la Bâthie 15257* (P00389591, lecto.; P00389587, P00389588, P00389589, P00389590, isolecto.); "Environs de Fort Dauphin: forêt de Manantantely", *H. Perrier de la Bâthie 5747* (P00404461, P00404462, syn.).

Distribution: Madagascar.

**Alsophila albida** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970).

*Cyathea albida* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 680 (14 Nov. 1941b).
Type: 'Forêt ombrophile, sur sol siliceux, 1 800 m. Massif du Tsaratanana et haute vallée su Sambirano, réserve naturelle no. 4', *H. Humbert 18241* (P00422563, P00422564, P00422565, holo.; P00422562, iso.).

Distribution: Madagascar.

**Alsophila alticola** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970).

*Gymnosphaera alticola* Tardieu in Naturaliste Malgache 3,1: 76, pl. 2 (1951a).

Type: 'Madagascar, sommet oriental du massif du Marojejy, à l'ouest de la Haute-Manantenina, végétation ericoïde, à 2 100 m, Dec. 1948', *H. Humbert 22670* (P00134618, holo.; K000009964, P00134621, iso.).

*Cyathea alticola* (Tardieu) Tindale in Contributions from the New South Wales National Herbarium 2,4: 331 (1956).

Distribution: Madagascar.

**Alsophila andohahelensis** *Tardieu* in Bulletin de la Société Botanique de France 88,7/8: 683 (14 Nov.1941b).
Type: 'Forêt sur latérite de gneiss, 800–1 500 m., massif de l'Andohahelo, vallée de Ranohela', *H. Humbert 6094* (P00134624, P00134625, holo.; P00422550, iso.).

*Cyathea andohahelensis* (Tardieu) Tindale in Contributions from the New South Wales National Herbarium 2,4: 331 (1956).

*Gymnosphaera andohahelensis* (Tardieu) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 34 (Mar. 1951c).

Distribution: Madagascar.

**Alsophila appendiculata** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970).

*Cyathea appendiculata* Baker in Journal of the Linnean Society, Botany 15: 411 (1876b).
Type: Madagascar, *W. Pool s.n.* (K000009957, K000009958, K000009959, K000009960, holo.; B20 0130873!, iso.).

Distribution: Madagascar.

**Alsophila approximata** *(Bonap.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970), var. **approximata**.

*Cyathea approximata* Bonap. in Notes Ptéridologiques 5: 41, 42 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique de l'Est. Environs de la Baie d'Antongil, 500 mètres d'altitude, Octobre 1912', *H. Perrier de la Bâthie 7985* (P00418668, holo.; P00418666, P00418667, iso.).

Distribution: Madagascar.

**Alsophila approximata** *(Bonap.) R.M.Tryon* var. **sorisquamata** *(Bonap.) J.P.Roux*, comb. nov.

*Cyathea sorisquamata* Bonap. in Notes Ptéridologiques 16: 21, 22 (14 Apr. 1925a).
Type: Madagascar. 'Règion floristique de l'Est. Environs de Beforona. Forêt orientale, Altitude de 700 mètres. Novembre 1921', *H. Perrier de la Bâthie 14047* (P00418663, P00418664, P00418665, holo.; P00418661, P00418662, iso.).

*C. approximata* Bonap. var. *sorisquamata* (Bonap.) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 4: 10 (Mar. 1951c).

Distribution: Madagascar.

**Alsophila auriculata** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970).

*Cyathea auriculata* Tardieu in Naturaliste Malgache 3,1: 75, 76, pl. 1, fig. 1 (1951a).
Type: Madagascar. 'Contreforts occidentaux du massif du Marojejy, forêt ombrophile, 900–1 000 m', *H. Humbert 23163* (P00404420, holo.; P00404417, P00404418, P00404419, P00404421, iso.).

Distribution: Madagascar.

**Alsophila bellisquamata** *(Bonap.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970), var. **bellisquamata**.

*Cyathea bellisquamata* Bonap. in Notes Ptéridologiques 16: 18–20 (14 Apr. 1925a).
Type: Madagascar. 'Règion floristique de l'Est. Environs de Beforona. Forêt orientale, 700 mètres d'altitude', *H. Perrier de la Bâthie 14024* (P00404255, P00404256, P00404257, P00404258, P00404259, holo.; P00404252, P00404253, P00404254, iso.).

Distribution: Madagascar.

**Alsophila bellisquamata** *(Bonap.) R.M.Tryon* var. **basilobata** *(C.Chr.) J.P.Roux*, comb. nov.

*Cyathea bellisquamata* Bonap. var. *basilobata* C.Chr. in Dansk Botanisk Arkiv 7: 25 (Oct. 1932b).
Type: Madagascar. Massif de Tsaratanana, forêt à sous-bois herbacé, 1 200 m, Jan. 1923, *H. Perrier de la Bâthie 15292* (P00404241, holo.; P00404237, P00404238, P00404239, P00404240, iso.).

Distribution: Madagascar.

**Alsophila borbonica** *(Desv.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), var. **borbonica**.

*Cyathea borbonica* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 328 (1811).
Type: 'Habitat in insula Bourboniae', *sine coll. s.n.* (P), lecto., designated by Janssen & Rakotondrainibe (2006: 218); 'Grand Étang, sentier menant du parking vers le point de vue, 21°05'44"S, 55°38'39"E, 557 m, 30.III.205', *T. Janssen et al. 2670* (P, epi.; P, isoepi.), designated by Janssen & Rakotondrainibe (2006: 218).

*C. borbonica* Poir. in Encyclopédie méthodique, Botanique, Supplementum 2,2: 425 (1812), nom illeg., non Desv. (1811: 328).
Type: 'Bourbon', Bory de St-Vincent s.n. (herb. Desf., FI, holo.).

*C. mascarena* (Sw.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 322 (Jul. 1827), nom. nov. for *C. borbonica* Poir. (1812: 423), non Desv. (1811: 328).

*C. canaliculata* auct. non Willd. ex Kaulf. (1824: 260); Cordem., Flore de l'île de la Réunion: 39 (1895).

Distribution: Réunion.

**Alsophila borbonica** *(Desv.) R.M.Tryon* var. **latifolia** *(Hook.) J.P.Roux*, comb. nov.

*Cyathea canaliculata* Willd. ex Spreng. γ *latifolia* Hook., Species filicum 1,1: 24, pl. 13A (Mar. 1844a).
Type: 'Mauritius', *Sieber, Fl. mixta exssic*. 304 (K, lecto., designated by Janssen & Rakotondrainibe (2006: 222); B, BM, G, P00404368, isolecto. 'Black River gorges NP, Brise Fer Conservation Management Area, 5.IV.2005', *T. Janssen et al. 2746* (P, epi., designated by Janssen & Rakotondrainibe (2006: 222); MAU, isoepi.).

*C. borbonica* Desv. var. *latifolia* (Hook.) Bonap., Notes Ptéridologiques 9: 48 (1920a).

*C. borbonica* Desv. f. *latifolia* (Hook.) C.Chr. in Dansk Botanisk Arkiv 7: 21 (1932b).

*Alsophila simulans* Baker in Journal of Botany, British and Foreign 1891: 3 (1891b).
Type: North-west Madagascar, *J.T. Last s.n.* (K000009955, K000009956, holo.).

Distribution: Mauritius.

**Alsophila borbonica** *(Desv.) R.M.Tryon* var. **sevathiana** *(Th.Janssen & Rakotondr.) J.P.Roux*, comb. nov.

*Cyathea borbonica* Desv. var. *sevathiana* Th.Janssen & Rakotondr. in Adansonia, sér. 3, 28,2: 225, fig. 3 (2006).
Type: 'Mauritius. Black River gorges NP, Pétrin Field Station, 700 m, 5.IV.2005', *T. Janssen et al. 2748* (P, holo.; MAU, iso.).

Distribution: Mauritius.

**Alsophila bullata** *Baker* in Journal of the Linnean Society, Botany 15: 412 (1876b), var. **bullata**.
Type: 'Intérieur de Madagascar, Apr. 1876', *W. Pool s.n*. (K000009961, K000009962, holo.).

*Cyathea bullata* (Baker) Rakotondr. in Bulletin du Muséum d'Histoire Naturelle, sér. 4, 10,4: 376 (1988).

*A. boivinii* Mett. ex Ettingh., Die Farnkräuter der Jetzwelt: 220, pl. 155 (Nov.–Dec. 1864), non *C. boivinii* Mett. ex Kuhn (1868: 162).
Type: "Ins. Comores", *L.H. Boivin s.n*. (B20 0121838!, holo.).

*Gymnosphaera boivinii* (Mett. ex Ettingh.) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 41 (Mar. 1951c).

*C. insularis* Domin, Pteridophyta: 262 (1929a), nom. nov. for *Alsophila boivinii* Mett. ex Ettingh., non *Cyathea boivinii* Mett. ex Kuhn (1868: 162).

*A. castanea* Baker in Journal of Botany, British and Foreign 1891: 3 (1891b).
Type: 'Mont Bekilus, nord-ouest de Madagascar, Dec. 1892', *J.T. Last s.n*. (K, holo.).

*A. melanotricha* Tardieu in Bulletin de la Société Botanique de France 88,7/8; 684 (1941b).
Type: 'Forêt ombrophile vers 1 400 m.; massif de l'Andrangovalo, au Sud-Est du lac Alaotra, réserve no 3, dite de Zakamena', *H. Humbert & G. Cours 17822* (P00134647, lecto.; P00134646, P00134648, P00134649, isolecto.).

*G. melanotricha* (Tardieu) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 36 (Mar. 1951c).

*C. melanotricha* (Tardieu) Tindale in Contributions from the New South Wales National Herbarium 2,4: 331 (1956).

Distribution: Comores (Anjouan, Johanna Isl., Mayotte, Grande Comore), Madagascar.

**Alsophila bullata** *Baker* var. **lobata** *(Rakotondr.) J.P.Roux*, comb. nov.

*Cyathea bullata* (Baker) Rakotondr. var. *lobata* Rakotondr. in Rakotondrainibe & Lobreau-Callen in Adansonia, sér. 3, 21,1: 147, fig. 4 (3 Jul. 1999).
Type: 'Massif de l'Anjanaharibe-Nord, Dec. 1950', *H. Humbert, R. Capuron & G. Cours 24683* (P00134884, holo.; P00134885, iso.).

Distribution: Madagascar.

**Alsophila bullata** *Baker* var. **madagascarica** *(Bonap.) J.P.Roux*, comb. nov.

*A. madagascarica* Bonap. in Notes Ptéridologiques 5: 53–55 (10 Dec. 1917d), non *C. madagascarica* Bonap. (1917d: 49–51).
Type: Madagascar. 'Règion floristique de Centre. Forêt d'Analamaitso, 800 m. Bois humides, basaltes, Août 1907', *H. Perrier de la Bâthie 7640* (P00422532, P00422533, P00422534, P00139690, lecto.), designated by Rakotondrainibe & Lobreau-Callen (1999: 146); P00134886, P00134887, P001234888, isolecto.); Madagascar. 'Ambatolaona. Forêts. Août 1906', *C. d'Alleizette 59* (P00134873, syn.); Madagascar. 'Mandraka. Forêts. Août 1906', *C. d'Alleizette 106* (P00134874, syn.).

*Cyathea bullata* (Baker) Rakotondr. var. *madagascarica* (Bonap.) Rakotondr. in Rakotondrainibe & Lobreau-Callen in Adansonia, sér. 3, 21,1: 146 (1999).

*C. malegassica* Domin in Acta Botanica Bohemica 9: 133 (1930), nom. nov. for *Alsophila madagascarica* Bonap., non *C. madagascarica* Bonap. (1917d: 49).

*Gymnosphaera madagascarica* (Bonap.) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 35 (Mar. 1951c), non *Cyathea madagascarica* Bonap. (1917d: 49–51).

Distribution: Madagascar.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), var. **camerooniana**.

*Cyathea camerooniana* Hook. in Synopsis filicum 1: 21, 22 (24 Jul. 1865).
Type: 'Cameroon Mountains, alt. 3–4000 ft.', *G. Mann 2059* (K000227895!, K000227894!, holo.).

*A. camerunensis* Diels in Die natürlichen Pflanzenfamilien 1,4: 135 (Aug. 1899a).

*C. camerunensis* (Diels) Domin, Pteridophyta: 262 (1929a).

*C. aethiopica* sensu Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 50, t. 6, figs 1, 2 (1953d).

Chromosome number: n = ± 70 (Manton 1959: 78).

Distribution: Bioko, Cameroon, Equatorial Guinea, Liberia, Nigeria.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **aethiopica** *(Welw. ex Hook.) J.P.Roux*, comb. nov.

*A. aethiopica* Welw. ex Hook. in Synopsis filicum 2: 44 (11 Dec. 1867a).
Type: 'Angola, Golungo, 1000–2400 ft in umbrosis sylv. Primitiv. montium ab Alta Queta, June 1855', *F.M.J. Welwitsch 116* (K, holo.; BM, iso.).

*Cyathea camerooniana* Hook. var. *aethiopica* (Welw. ex Hook.) Holttum in Kew Bulletin 36,3: 480 (15 Dec. 1981).

*C. aethiopica* (Welw. ex Hook.) Domin, Pteridophyta: 262 (1929a).

*A. congoensis* Bonap. in Notes Ptéridologiques 14: 241, 242 (23 Nov. 1923b).
Type: 'Congo belge. Walikale-Lubutu. Forêt vierge, Le 11 janvier 1915', *J.C.C. Bequaert 6562* (P00482689!, syn.); 'Mayumbe. Valle de la Dizi, entre Lundu et Kisali. Environ 400 mètres d'altitude. Forêt vierge. Août 1919', *V. Goossen 1423* (P, syn.); 'Mayumbe. Mont Milongi près de Lundu. Environ 350 mètres d'altitude. Forêt secondaire. Août 1919', *V. Goossen 1387* (P, syn.).

*C. principis* Domin in Acta Botanica Bohemica 9: 150 (1930), nom. nov. for *Alsophila congoensis* Bonap. (1923b: 241), non *C. congoensis* (Hort.) Domin (1930: 106).

Distribution: Angola, DRC, Equatorial Guinea.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **congi** *(H.Christ) J.P.Roux*, comb. nov.

*Cyathea canaliculata* Willd. ex Kaulf. var. *congi* H.Christ in Bulletin de la Société Royale de Botanique de Belgique 36,2: 92 (1897b).
Type: 'Zaïre, forêts à est de Lusambo', *É. Laurent s.n.* (not located); "forèts a l'Est de Lusambo, déc.1895", *É. Laurent s.n.* (P, holo.; BM, iso.).

*C. camerooniana* Hook. var. *congi* (H.Christ) Holttum in Kew Bulletin 36,3: 481 (15 Dec. 1981).

Distribution: Cameroon, Equatorial Guinea, Liberia.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **currorii** *(Holttum) J.P.Roux*, comb. nov.

*Cyathea camerooniana* Hook. var. *currorii* Holttum in Kew Bulletin 36,3: 480 (15 Dec. 1981).
Type: 'W Africa, South of Tropics', *A.B. Curror s.n*. (K000227916!, K000227917!, K000227918!, holo.).

Distribution: ?Angola, Príncipe.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **occidentalis** *(Holttum) J.P.Roux*, comb. nov.

*Cyathea camerooniana* Hook. var. *occidentalis* Holttum in Kew Bulletin 36,3: 481 (15 Dec. 1981).
Type: 'Ghana, near Chichiwere, marshy place by stream', *F.J. Lyon 116* (K, holo.).

Distribution: Cameroon, Ghana, Sierra Leone.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **ugandensis** *(Holttum) J.P.Roux*, comb. nov.

*Cyathea camerooniana* Hook. var. *ugandensis* Holttum in Kew Bulletin 36,3: 481, 482 (15 Dec. 1981).
Type: 'Uganda, Prov. Buganda, Country Kyagwe, Distr. Mengo, Nakiza forest, 1 200 m in swamp-side forest but never flooded', *H.C. Dawkins 698* (K, holo.; BM, EA, iso.).

*C. borbonica* Desv. var. *continentalis* Bonap. in Notes Ptéridologiques 15: 8 (25 Feb. 1924).
Type: 'Uganda Protectorate. Près de Gaba. Dans la forêt, bord dela rivière. Altitude de 4000 pieds, Novembre 1915', *R. Dümmer 2649* (US634952, holo.).

Distribution: Uganda.

**Alsophila camerooniana** *(Hook.) R.M.Tryon* var. **zenkeri** *(Hieron. ex Diels) J.P.Roux*, comb. nov.

*A. zenkeri* Hieron. ex Diels in Die natürlichen Pflanzenfamilien 1,4: 135 (Aug. 1899a).
Type: Cameroon, "Bipindi, Urwaldgebiet. 1909", *G. Zenker 3919* (P00483066!, lecto.), designated by Tardieu (1964a: 67); (BM, K00027920!, W!, isolecto.).

*Cyathea camerooniana* Hook. var. *zenkeri* (Hieron. ex Diels) Tardieu in Flore de Cameroun, Pteridophyta: 67 (30 Nov. 1964a).

*C. zenkeri* (Hieron. ex Diels) Domin, Pteridophyta: 263 (Oct. 1929a).

*C. aethiopica* (Welw. ex Hook.) Domin var. *zenkeri* (Hieron. ex Diels) Tardieu in Notulae Systematicae (Paris) 14,4: 337 (Dec. 1953c).

*A. batesii* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 299 (1897).
Type: 'Upper Guinea, Cameroon Mountains: Forest at Efulen', *G.L. Bates 307* (K000227915!, K000227919!, holo.; Z000002083, iso.).

*C. batesii* (Baker) Domin, Pteridophyta: 262 (Oct. 1929a).

Distribution: Cameroon, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon.

**Alsophila capensis** *(L.f.) J.Sm*. in London Journal of Botany 1: 666 (1842b).

*Polypodium capense* L.f., Supplementum plantarum: 445, 446 (Apr. 1782).
Type: 'Habitat ad Cap. bonae spei', *A. Sparrmann s.n*. (LINN 1251.61, holo.).

*Cyathea capensis* (L.f.) Sm. in Mémoires de l'Academie Royale des Sciences de Turin 5: 417 (1793).

*Hemitelia capensis* (L.) Kaulf., Enumeratio filicum: 253, 254 (Oct. 1824).

*Polystichum capense* (L.f.) J.Sm. in Companion to the Botanical Magazine 72: 35 (1846).

*Cormophyllum capense* (L.f.) Newman in The Phytologist 5: 238 (1854c).

*Amphicosmia capensis* (L.f.) Klotzsch in Allgemeine Gartenzeitung 24,14: 107 (5 Apr. 1856).

*Trichomanes incisum* Thunb., Prodromus plantarum capensium: 173 (1800).
Type: Cape Province, Grootvadersbosch, *C.P. Thunberg s.n*. (UPS, holo.).

*Cyathea riparia* Willd., Species plantarum, edn 4, 5,1: 493 (25–27 Jun. 1810).
Type: "Habitat ad Cap. b. spei, locis ubis umbrosis, ad rivulos montium", *C.D. de Meuron s.n.* (B-W 20172!, holo.).

*Amphicosmia riparia* (Willd.) Gardner in London Journal of Botany 1: 441 (1842b).

*T. cormophyllum* Kaulf., Enumeratio filicum: 266 (Oct. 1824).
Type: 'Habitat parasitice in cacumine caudicis *Hemiteliae capensis* Promotori b. spei', *sine coll. s.n*. (missing).

Distribution: Malawi, Mozambique, South Africa, Swaziland, Zimbabwe.

See Plate 4A.

**Alsophila celsa** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), nom. nov. for *Cyathea excelsa* Sw., non *Alsophila excelsa* Endl. (1833: 16).

*Cyathea excelsa* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 93 (1801).
Type: 'ex insula Mauritii', Gröndal s.n. (S, herb. Swartz no. 3245, lecto., designated by Janssen & Rakotondrainibe (2006: 227); S, UPS, isolecto.

*C. canaliculata* Willd. ex Kaulf., Enumeratio filicum: 260 (1824), nom. nud.

*C. canaliculata* Willd. ex Spreng., Systema vegetabilium, edn 16, 4,1: 126 (1827).
Type: 'Habitat in insula Mauritii', *L.-M.A. du Petit-Thouars s.n*. (B-W 20184, holo.; P00422711, iso.).

Distribution: Mauritius, Réunion.

**Alsophila coursii** *Tardieu* in Bulletin de la Société Botanique de France 88,7/8: 684 (14 Nov. 1941b).
Type: 'Forêt ombrophile, 1 200 m., massif de l'Andrangovalo, Sud-Est du lac Alaotra, réserve no 3, dite de Zakamena, bassin de l'Onibe', *H. Humbert & G. Cours 17861* (P00134897, P00134898, P00134899, P00134900, holo.; P00134901, P00134902, iso.).

*Cyathea coursii* (Tardieu) Tindale in Contributions from the New South Wales National Herbarium 2,4: 331 (1956).

*Gymnosphaera coursii* (Tardieu) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 40, fig. 4, t. 1–3, fig. 5, t. 1 (Mar. 1951c).

Distribution: Madagascar.

**Alsophila deckenii** *(Kuhn) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea deckenii* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3, Botany: 57 (Aug.–Sep. 1879).
Type: 'in monte Kilimandjaro regionis Dschagga inter 5500 et 7800 ped.', *K. von der Decken, & O. Kersten 72* (B20 0123854!, B20 0123855!, holo.; P00483080!, fragm.).

Distribution: DRC, Mozambique, Sudan, Tanzania.

**Alsophila decrescens** *(Mett. ex Kuhn) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), var. **decrescens**.

*Cyathea decrescens* Mett. ex Kuhn, Filices africanae: 164 (Oct. 1868),.
Type: 'Madagascaria', *J. Goudot s.n.* (not located); 'Ins. St Mariae', *L.H. Boivin 1600* (B20 0129560!, syn.).

Distribution: Madagascar.

**Alsophila decrescens** *(Mett. ex Kuhn) R.M.Tryon* var. **hirsutifolia** *(Bonap.) J.P.Roux*, comb. nov.

*Cyathea decrescens* Mett. ex Kuhn var. *hirsutifolia* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 20 (Feb. 1932a).

*C. hirsutifolia* Bonap. in Notes Ptéridologiques 5: 46–48 (10 Dec. 1917d).
Type: Madagascar. 'Règion floristique de l'Est. Côte Est. Rivière Anove bati, 200 m, Sept. 1912', *H. Perrier de la Bâthie 7984* (P00389491, syn.; P00389490, isosyn.); Madagascar. 'Règion floristique du centre. Analamazoatra. Bois. 800 m, Febr. 1912', *H. Perrier de la Bâthie 11535* (P00389493, lecto.; P00389492, isolecto.).

*C. hirsuta* Baker in Journal of Botany, British and Foreign 1884: 140 (1884c).
Type: Madagascar, *L. Humblot 262* (K?, holo.).

*C. hirsutifrons* C.Chr., Index filicum: 192 (20 Aug. 1905), nom. nov. for *C. hirsuta* Baker, non C.Presl in Presl & Presl (1822: 190).
Type: As for *Cyathea hirsuta* Baker.

Distribution: Madagascar.

**Alsophila dregei** *(Kunze) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea dregei* Kunze in Linnaea 10: 551 (1836).
Type: "Inter catarractam magnam et Omsamcaba, in valle rupestri umbrosa ad rivulum, 500 p., 1838", *J.F. Drège s.n.* (LZ†; BM!), lecto., designated by Roux (1986: 378); (B20 0129536, K!, iso.).

*C. polyphlebia* Baker in Journal of the Linnean Society, Botany 20: 303 (1884d).
Type: 'Central Madagascar', *R. Baron 440* (K000009953, K000009954, holo.).

*C. dregei* Kunze var. *polyphlebia* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 21 (Feb. 1932a).

*A. dregei* (Kunze) R.M.Tryon var. *polyphlebia* (Baker) Benl in Acta Botanica Barcinonensia 31: 29 (1978).

*C. segregata* Baker in Journal of the Linnean Society, Botany 20: 303 (1884d).
Type: 'Central Madagascar', *R. Baron 997* (?K, holo.).

*C. dregei* Kunze var. *segregata* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 21 (Feb. 1932a).

*A. dregei* (Kunze) R.M.Tryon var. *segregata* (Baker) Benl in Acta Botanica Barcinonensia 31: 29 (1978).

*C. flavovirens* Kuhn ex Diels in Die natürlichen Pflanzenfamilien 1,4: 127 (Aug. 1899a).
Type: 'Madagascar', *J.M. Hildebrandt 3473* (B, holo.).

*A. baronii* Baker in Journal of the Linnean Society, Botany 21,137: 455 (29 Apr. 1885b), as '*Baroni*'.
Type: Madagascar, *R. Baron 3143* (K?, holo.).

*C. angolensis* Welw. in Boletim e Annaes do Conselho Ultramarino 5: 538 (Dec. 1859).
Type: Angola. 'Benguilla, Distr., Huílla, Trop. W. Afr., 3500–5500 ft', *F.M.J. Welwitsch 83* (BM, K, syn.); Angola. Huilla. Very frequent near the banks of the streams in the higher regions of Morro de Lopollo. Jan. 1860. *F.M.J. Welwitsch 186* (BM, K, syn.).

*C. burkei* Hook., Species filicum 1,1: 23, t. 17b (Apr. 1844a).
Type: 'Macalisberg, S. Africa', *J. Burke s.n.* (K, holo.).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Ghana, Guinea, Lesotho, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Alsophila glaucifolia** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), nom. nov. for *Cyathea glauca* Bory (1804b: 206).

*Cyathea glauca* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 206 (Sep. 1804b), non *Alsophila glauca* (Blume) J.Sm. (1841: 419).
Type: "Ile de Mascareignes. Le plus bel arbre de la Plaine des Ormodes, dans l'enclos du volcan", *J.B.G.M. Bory de St.-Vincent s.n.* (P00411767, P00325136, holo.; B20 0132361!, ?iso.).

Distribution: Réunion.

**Alsophila grangaudiana** *(Th.Janssen & Rakotondr.) J.P.Roux*, comb. nov.

*Cyathea grangaudiana* Th.Janssen & Rakotondr. in Adansonia, sér. 3, 28,2: 234, figs 6, 7D, 8B, F (2006).
Type: 'Black River gorges NP, chemin ver Mt. Cocotte, 20°26'19"S, 57°28'27"E, 728 m, 4.IV.2005', *T. Janssen et al. 2740* (P, holo.; MAU, iso.).

Distribution: Mauritius.

**Alsophila hildebrandtii** *(Kuhn) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea hildebrandtii* Kuhn, Index seminum in Horto botanico berolensi anno 1875 collectorum: 20 (1875).
Type: "Comoro Insel Johana von 800–1 500 m arbor 5 m alt. Juni–Aug. 1875", *J.M. Hildebrandt 1747* (B20 0129542, holo.).

Distribution: Comoro Isl. (Johanna Isl.), Madagascar.

**Alsophila humbertiana** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Hemitelia humbertiana* C.Chr. in Archives de botanique, bulletin mensuel 2,12: 210 (Dec. 1928).
Type: Madagascar. 'Massif de l'Andringitra, Iratsy, reste de forêts', *H. Humbert 3749* (P00404160, holo.; P00404159, iso.).

*Cyathea humbertiana* (C.Chr.) Domin in Acta Botanica Bohemica 9: 123 (1930).

*C. humbertiana* (C.Chr.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 21 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Alsophila humilis** *(Hieron.) Pic.Serm.* in Webbia 27,2: 405 [1972] (28 Feb. 1973a), var. **humilis**.

*Cyathea humilis* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 88 (Jun. 1895).
Type: Tanzania. 'Usambara Mts, Bulua bei Gonja, um 1 030 m', *C.H.E.W. Holst 4264* (B20 0123876!, B20 0123877!, K, syn.).

*A. holstii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 87 (Jun. 1895), non *Cyathea holstii* Hieron. (1895: 88).
Type: Tanzania. 'Usb., Bulua bei Gonja', *C.H.E.W. Holst 4276* (B20 0132388!, B20 0132389!, B20 0132390!, holo.).

*C. stuhlmannii* Hieron. in Botanische Jahrbücher 28: 340 (1900a).
Type: 'Südost-Uluguru: im Bergurwald bei Ng'hweme, 1 600 m ü. M., Oct. 1894', *F. Stuhlmann 8813* (B20 0133188!, B20 0133189!, holo.).

*A. stuhlmannii* (Hieron.) R.M.Tryon in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*C. opizii* Domin, Pteridophyta: 263 (Nov.–Dec. 1929a), nom. nov., non *C. holstii* Hieron. (1895: 88).
Type: as for *Alsophila holstii* Hieron.

*C. ulugurensis* Hieron. in Botanische Jahrbücher 28: 340, 341 (1900a).
Type: 'Südost-Uluguru: im Bergwald von Ng'hweme, 1 600 m ü. M., Oct. 1894', *F. Stuhlmann 8803* (B20 0135537!, holo.).

Distribution: Kenya, Tanzania, Sudan.

**Alsophila humilis** *(Hieron.) Pic.Serm.* var. **pycnophylla** *(Holttum) J.P.Roux*, comb. nov.

*Cyathea humilis* Hieron. var. *pycnophylla* Holttum in Kew Bulletin 36,3: 477 (15 Dec. 1981).
Type: 'Tanzania, Morogoro District, Nguru South Forest Reserve, 1 450 m', *D.J. Mabberley & T. Pócs 681* (K, holo.; EA, iso.).

Distribution: Tanzania.

**Alsophila hyacinthei** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), nom. nov. for *Cyathea boivinii* Mett. ex Kuhn (1868: 162, 163), non *Alsophila boivinii* Ettingsh. (1864: 220), var. **hyacinthei**.

*Cyathea boivinii* Mett. ex Kuhn, Filices africanae: 162, 163 (Oct. 1868), non *Alsophila boivinii* Mett. ex Ettingsh. (1864: 220).
Type: "Insel Mayotte", *L.H. Boivin 1602* (B200121843, holo.).

Distribution: Madagascar.

**Alsophila hyacinthei** *R.M.Tryon* var. **concava** *(Bonap.) J.P.Roux*, comb. nov.

*Cyathea concava* Bonap. in Notes Ptéridologiques 5: 43, 44 (10 Dec. 1917d).
Type: Madagascar. 'Régions floristique de l'Est et du Centre. Forêt d'Analamazoatra, 800 mètres d'altitude, Décembre', *H. Perrier de la Bâthie 6120* (P00422553, P00422554, holo.; P00422551, P00422552, iso.).

*C. boivinii* Mett. ex Kuhn var. *concava* (Bonap.) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 32 (Mar. 1951c).

*C. ballardii* Tardieu in Naturaliste Malgache 3,1: 75 (1951a).
Type: Madagascar. 'Analamazaotra', *Jardin Botanique Madagascar 3768* (P00422556, lecto.; P00422555, isolecto.).

*A. ballardii* (Tardieu) R.M.Tryon in Contributions of the Gray Herbarium of Harvard University 200: 29 (1 Aug. 1970).

Distribution: Madagascar.

**Alsophila hyacinthei** *R.M.Tryon* var. **humblotii** *(Baker) J.P.Roux*, comb. nov.

*Cyathea humblotii* Baker in Journal of Botany, British and Foreign 1884: 140 (1884c).
Type: "Madagascar", *L. Humblot 264* (K000009947, K000009948, K000009949, P00418777, P00418778, P00418779, syn.); "Madagascar" *M. Goudot 27* (K000009950, syn.).

*C. boivinii* Mett. ex Kuhn var. *humblotii* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 34, pl. 7, figs 1–7 (Oct. 1932b).

*C. goudotii* Kunze in Botanische Zeitung (Berlin) 2: 283 (1844c).
Type: 'Madagascar', *Goudot s.n.* (not located).

*C. rigidula* Baker in Journal of the Linnean Society, Botany 22: 534, 535 (1887c).
Type: 'Central Madagascar', *R. Baron 3845* (K000009927, holo.).

Distribution: Madagascar.

**Alsophila isaloensis** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea isaloensis* C.Chr. in Dansk Botanisk Arkiv 7: 35, pl. 6, figs 7–15 (Oct. 1932b).
Type: 'Isalo; Befotaka', 1 000 m, Octobre 1924', *sine coll. s.n.* (?BM, holo.).

*C. isaloensis* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 21 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Alsophila kirkii** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea kirkii* Hook. in Synopsis filicum 1: 22 (24 Jul. 1865).
Type: 'Johanna Island, alt. 2000 ft.', *J. Kirk s.n.* (K000009945, K000009946, holo.).

Distribution: Comores: (Anjouan, Johanna Isl.).

**Alsophila lastii** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea lastii* Baker in Journal of Botany, British and Foreign 1891: 3 (1891b).
Type: North-west Madagascar, *J.T. Last s.n.* (K000009943, holo.; K000009940, K000009941, K000009942, K000009944, iso.).

Distribution: Madagascar.

**Alsophila leptochlamys** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea leptochlamys* Baker in Journal of the Linnean Society, Botany 22: 535 (1887c).
Type: Madagascar, *R. Baron 3665* (K000009939, holo.).

Distribution: Madagascar.

**Alsophila ligulata** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea ligulata* Baker in Journal of Botany, British and Foreign 1884: 140 (1884c).
Type: Madagascar, *L. Humblot 299* (K000009938, holo.).

Distribution: Madagascar.

**Alsophila longipinnata** *(Bonap.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea longipinnata* Bonap. in Notes Ptéridologiques 5: 48, 49 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique de l'Est. Côte Est. Massala. Bois. 500 mètres d'altitude, Oct. 1912', *H. Perrier de la Bâthie 7941* (P00418687, holo.; P00418683, P00418684, P00418685, P00418686, iso.).

Distribution: Madagascar.

**Alsophila manniana** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea manniana* Hook. in Synopsis filicum 1: 21 (24 Jul. 1865).
Type: 'Fernando Po, 100 m', *G. Mann 363* (K, lecto.), designated by Pichi Sermolli (1956: 138); 'Cameroon Mountains, alt. 3–4000 ft.', *G. Mann 1392* (K, syn.).
Note: a specimen of *G. Mann 41* is present in the Berlin Herbarium collection and annotated as a syntype.

*C. usambarensis* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 88 (Jun. 1895).
Type: 'Usambara, Shagaiuwald bei Mbaramu', *C.H.E.W. Holst 2498* (B20 0125048!, holo.; K, iso.).

*C. preussii* Diels in Die natürlichen Pflanzenfamilien 1,4: 127 (Aug. 1899a).
Type: 'Westafrika, in Urwäldern des Bakosii-Gebietes (Kamerun) bei 800 m', *P.R. Preuss s.n.* (P, holo.), sensu Pichi Sermolli (1956: 143)].

*C. manniana* Hook. var. *preussii* (Diels) Tardieu in Notulae Systematicae (Paris) 14,4: 337 (1953c).

*C. laurentiorum* H.Christ in Mission Émile Laurent 1903–1904: 14 (Apr. 1905a).
Type: Zaïre. 'Marais à Butala, 18 novembre 1903', *É. Laurent s.n.* (BR, holo.; P00482690!, iso.).

*C. sellae* Pirotta in Annali di Botanica. Genoa 7: 173 (1908).
Type: ' Valle Mobuku, in excelsis Ruwenzorii', *Exp. Ducis Aprutti s.n.* (RO, holo.; P00482691!, fragm., iso.).

*C. engleri* Hieron. ex Brause in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 1, 2 (Dec. 1910), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Kiwu-See: Insel Kwidjwi, Hochwald, Bachsclucht, Stämme bis 8 m hch, Wedel ± 3 m long, 1 700 m ü.

M., Sept. 1907', *G.W.J. Mildbraed 1246* (not located); 'Rugege-Wald, Westseite, Bereich der sekundären *Pteridium*-Formation, am Bach Nirahindi, Stamm kurz, ± 1 m, Wedel gegen 3 m, Aug. 1907', *G.W.J. Mildbraed 1064* (not located); 'Rugege-Wald, Schlucht am Rukarara, Stämme 2–3 m, Wedel bis 3 m lang, Baumfarne sind im allgemeinen selten, ± 1 900 m ü. M., Aug. 1907', *G.W.J. Mildbraed 946* (not located); 'Ruwenzori: Butagu-Tal, Baumbushwald der Vorberge, in Bachtälern, stattlichher Baumfarn, 2–5 m hoch, 18–2 100 m ü. M., Febr. 1908', *G.W.J. Mildbraed 2705* (not located).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, Sierra Leone, Tanzania, Uganda, Zambia, Zimbabwe.

**Alsophila marattioides** *(Willd. ex Kaulf.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970).

*Cyathea marattioides* Willd. ex Kaulf., Enumeratio filicum: 256 (Oct. 1824).
Type: "Habitat in Madagascaria", *L.-M.A. du Petit-Thouars s.n*. (B-W 20180-01 0, holo.).

*Hemitelia cordata* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 321 (Jul. 1827).
Type: 'Habitat in Madagascaria', *A.N. Desvaux s.n.* (P00389539, holo.).

*C. phanerophlebia* Baker in Annals of Botany 8: 122 (1894).
Type: North Madagascar, *R. Baron 6109* (K000009934, holo.).

Distribution: Madagascar.

**Alsophila matitanensis** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), nom. nov. for *C. madagascarica* Bonap. (1917d: 49–51), non *Alsophila madagascarica* Bonap. (1917d: 53).

*Cyathea madagascarica* Bonap. in Notes Ptéridologiques 5: 49–51 (10 Dec. 1917d), non *C. madagascariensis* Kaulf. (1824: 257), nec *Alsophila madagascarica* Bonap. (1917d: 53).
Type: 'Région foristique de l'Est. Bassin du Matitana. Forêt orientale. Bord d'un petit affluent du Rainany. Vers 700 mètres d'altitude. Sans date', *H. Perrier de la Bâthie 7559* (P00418693, P00418694 holo; P00418690, P00418691, P00418692, iso.).

Distribution: Madagascar.

**Alsophila melanocaula** *(Desv.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), non *Alsophila melanocaulos* Alderw. (1924: 1).

*Cyathea melanocaula* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 322 (Jul. 1827).
Type: 'Habitat in Madagascaria', *A.N. Desvaux s.n.* (P00418680, holo.).

Distribution: Madagascar.

**Alsophila melleri** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970), var. **melleri**.

*Hemitelia melleri* Baker in Synopsis filicum, edn 2: 456 (Oct. 1874a).
Type: 'Madagascar', *C.J. Meller s.n*. (?K, holo.).

*Cyathea melleri* (Baker) Domin, The Pteridophyta of the Island of Dominica: 264 (Nov.–Dec. 1929b).

*Gymnosphaera melleri* (Baker) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 38 (Mar. 1951c).

*C. glandulosa* Domin, The Pteridophyta of the Island of Dominica: 264 (Nov.–Dec. 1929b).

Distribution: Madagascar.

**Alsophila melleri** *(Baker) R.M.Tryon* var. **virescens** *(C.Chr.) J.P.Roux*, comb. nov.

*Cyathea melleri* (Baker) Domin var. *virescens* C.Chr. in Dansk Botanisk Arkiv 7: 36, 37 pl. 6, figs 24–27 (Oct. 1932b).
Type: Madagascar. 'Forêt orientale, Mt. Andriantantely au N. d'Anivorano, juin 1922', *H. Perrier de la Bâthie 14746* (P00418730, holo.; BM, P00418725, P00418726, P00418727, P00418728, P00418729, iso.).

*C. virescens* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 22 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Forêt orientale: Mont Andriantely', *sine coll. s.n*. (?BM, holo.).

*Hemitelia glandulosa* Kuhn ex Baker in Annals of Botany 5: 188, 189 (1891a).
Type: "Imerina: Andrangoloaka Urwald, Central Madagascar", *J.M. Hildebrandt 4176* (K000009935, holo.; P00418721, P00418722, P00418723, P00418724, iso.).

*Gymnosphaera melleri* (Domin) Tardieu var. *virescens* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 4e Famille—Cyathéacées: 38 (Mar. 1951c).

Distribution: Madagascar.

**Alsophila mildbraedii** *Brause* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2,2, t. 1, figs A–C (Dec. 1910).
Type: 'Ruwenzori: Butagu-Tal, Ericaceen-Buchwald, Baumfarn, Stamm bis 4 m, ± 3 300 m ü. M. Febr. 1908', *G.W.J. Mildbraed 2545* (B20 0125013, B20 0125014, holo.; P00482692!, P00482693!, iso.).

*Cyathea mildbraedii* (Brause) Domin, Pteridophyta: 263 (Oct. 1929a).

Distribution: DRC, Uganda.

**Alsophila mossambicensis** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea mossambicensis* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 185 (1891a).
Type: Mozambique, 'Namuli Makua country, 1887', *J.T. Last s.n*. (K000227932!, K000227935!, holo.).

*C. holstii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 88 (Jun. 1895).
Type: 'Usambara, Shagaiuwald bei Mbaramu', *C.H.E.W. Holst 2498* (B20 0125048!, holo.; K000227908!, iso.).

*C. usambarensis* Domin, Pteridophyta: 263 (1929a), nom. nov. for *Cyathea holstii* Hieron. (1895: 88), non *Alsophila holstii* Hieron. (1895: 87), non *C. usambarensis* Hieron. (1895: 88).

*A. campanulata* R.M.Tryon in Contributions of the Gray Herbarium of Harvard University 200: 30 (1 Aug. 1970), nom. nov. for *Cyathea holtstii* Hieron., non *A. holstii* Hieron. (1895: 87).
Type: as for *Cyathea holstii* Hieron.

Distribution: Malawi, Mozambique, Sudan, Tanzania, Zimbabwe.

**Alsophila nickelsii** *(Tardieu & F.Ballard) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Gymnosphaera nickelsii* Tardieu & F.Ballard in Notulae Systematicae (Paris) 14,4: 329 (1953a).
Type: 'Central African Republic, Oubangui: Chutes de la Toutourou, sud de Carnot, 600 m', *M. Nicklès 26* (P00134919, P00134920, holo.; BM, iso.).

*Cyathea nicklesii* (Tardieu & F.Ballard) Tindale in Contributions from the New South Wales National Herbarium 2,4: 331 (1956).

**Alsophila obtusiloba** *Hook*. in Synopsis filicum 2: 45 (11 Dec. 1867a).
Type: 'W. Africa, border of Rio Muni and Gabon, Sierra del Crystal', *G. Mann 1621* (K000227922!, K000227923!, K000227924!, holo.; BM, iso.).

*Cyathea obtusiloba* (Hook.) Domin, Pteridophyta: 263 (Oct. 1929a).

Distribution: Cameroon, Equatorial Guinea, Gabon.

**Alsophila orthogonalis** *(Bonap.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea orthogonalis* Bonap. in Notes Ptéridologiques 5: 32 (10 Dec. 1917c).
Type: Madagascar, *R. Baron 6126* (P00338265, holo.; P00338264, iso.).

Distribution: Madagascar.

**Alsophila perrieriana** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea perrieriana* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 22 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar. 'Bassin inférieur du Mangoro, 300 m. alt., Oct. 1922', *H. Perrier de la Bâthie 18086* (BM, holo.).

*C. perrieriana* C.Chr. in Dansk Botanisk Arkiv 7: 19, 20, pl. 3, figs 1–6 (Oct. 1932b).
Type: Madagascar. 'Bassin inférieur du Mangoro, 300 m. alt., Oct. 1922', *H. Perrier de la Bâthie 18086* (BM, holo.).

Distribution: Madagascar.

**Alsophila pilosula** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea pilosula* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 681 (14 Nov. 1941b).
Type: 'Forêt ombrophile, vers 1 200 m, massif de l'Andrangovalo, Sud-Est du Lac Alaotra, réserve no. 3, dite de Zakamena, bassin de l'Onibe', *H. Humbert et G. Cours 17763* (P00389454, holo.; P00389451, P00389452, P00389453, iso.).

Distribution: Madagascar.

**Alsophila poolii** *C.Chr.*, Index filicum: 46 (5 May 1905), nom. nov. for *Alsophila vestita* Baker (1876b: 412, 413), non *A. vestita* C.Presl (1851: 27).
Type: Forest near Tananarive, *W. Pool s.n*. (K, holo.; B20 0132983!, iso.).

*Cyathea poolii* (C.Chr.) Domin, Pteridophyta: 263 (1929a).

*A. vestita* Baker in Journal of the Linnean Society, Botany 15: 412, 413 (1876b), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Presl (1851: 27).
Type: 'Madagascar, Antananarivo, Apr. 1876', *W. Pool s.n.* (K000009930, K000009931, K000009932, holo.).

Distribution: Madagascar.

**Alsophila quadrata** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970), var. **quadrata**.

*Cyathea quadrata* Baker in Journal of the Linnean Society, Botany 15: 411, 412 (1876b),.
Type: Madagascar, *W. Pool s.n.* (K000009929, holo.).

Distribution: Madagascar.

**Alsophila quadrata** *(Baker) R.M.Tryon* var. **ivohibense** *(C.Chr.) J.P.Roux*, comb. nov.

*Cyathea quadrata* Baker var. *ivohibensis* C.Chr. in Dansk Botanisk Arkiv 7: 28 (Oct. 1932b).
Type: 'Pic d'Ivohibe (Bara), 1 500–2 000 m', *H. Humbert 3200* (P00404425, P00404426, P00404427, iso.).

*C. quadrata* Baker var. *ivohibensis* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 122 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Alsophila rolandii** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970), nom. nov. for *Cyathea costularis* Bonap., non *Alsophila costularis* Baker (1906: 8).

*Cyathea costularis* Bonap. in Notes Ptéridologiques 5: 44–46 (10 Dec. 1917d), non *Alsophila costularis* Baker (1906: 8).
Type: Madagascar. 'Régions floristique du Sambirano. Bois Lokohe (Nonibe), 200 mètres d'altitude, Août 1913', *H. Perrier de la Bâthie 7616* (P00389602, para.; P00389599, P00389600, P00389601, isopara.); Madagascar.'Région floristique de l'Est. Côte Est. Environs de ... Bois. 300 mètres d'altitude. Octobre 1912', *H. Perrier de la Bâthie 7980* (P00389606, lecto.; P00389603, P00389604, P00389605, P00389607, P00389608, isolecto.).

Distribution: Madagascar.

**Alsophila schliebenii** *Reimers* in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 918, 919 (1933), non *C. schliebenii* Reimers (1933: 916).
Type: 'Uluguru-Gebirge: NW., Lupanga, ± 2 100 m, Nebelwald, vereinzelt an sonnigen Stellen, 1–2 m hoch, 12 Nov. 1932', *H.J. Schlieben 2976* (B20 0133058!, B20 0133059!, B20 0133060!, B20 0133061!, B20 0133062!, B20 0133063!, holo.; BM, iso.).

*Cyathea fadenii* Holttum in Kew Bulletin 36,3: 470 (15 Dec. 1981), nom. nov. for *Alsophila schliebenii* Reimers (1933: 918), non *C. schliebenii* Reimers (1933: 916).

Distribution: Tanzania.

**Alsophila sechellarum** *(Mett.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea sechellarum* Mett. in Annales Musei Botanici Lugduno-Batavi 1: 58 (1863).
Type: 'Ins. Sechellae', *A. Pervillé 365* bis (?P, syn.); "Iles Sechelles", *A. Pervillé 76a* (B20 0133072!, B20 0133073!, syn.).

Distribution: Madagascar, Seychelles (Mahé).

**Alsophila serratifolia** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea serratifolia* Baker in Journal of Botany, British and Foreign 1884: 139, 140 (1884c).
Type: 'Madagascar', *L. Humblot 278* (K000009922, K000009923, holo.); 'Madagascar', *R. Baron 5604* (K000009924, K000009925, syn.).

*C. regularis* Baker in Journal of the Linnean Society, Botany 25: 349, 350 (1899).
Type: Madagascar. 'East Androna', *R. Baron 5604* (K000009924, K000009925, holo.).

Distribution: Madagascar.

**Alsophila similis** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea similis* C.Chr., Index filicum: 195 (2 Oct. 1905), nom. nov. for *C. discolor* Baker, non Bory (1829: 281), nec Fée (1852: 353).

*C. discolor* Baker in Journal of the Linnean Society, Botany 15: 412 (1876b).
Type: Madagascar, *W. Pool s.n*. (K000009915, K000009916, holo.).

Distribution: Madagascar.

**Alsophila tanzaniana** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970), nom. nov., non *A. schliebenii* Reimers (1933: 918).

*Cyathea schliebenii* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 916 (1933).
Type: Tanzania. 'Uluguru-Gebirge: NW., ± 1 800 m, Nebelwald, kleiner Baumfarn, ± 2 m hoch, vereinzelt, 30 Nov. 1932', *H.J. Schlieben 3043* (B20 0123865!, B20 0123866!, B20 0123867!, B20 0123868!, B20 0123870!, holo.; BM, iso.).

Distribution: Tanzania.

**Alsophila tsaratananensis** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea tsaratananensis* C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 64 (Oct. 1934), nom. nov. for *C. subincisa* C.Chr. (1932b: 22), non (Kunze) Domin (1929a: 264).
Type: as for *Cyathea subincisa* C.Chr.

*C. subincisa* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 22 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*C. subincisa* C.Chr. in Dansk Botanisk Arkiv 7: 27, pl. 5, figs 20–22 (Oct. 1932b).
Type: 'Massif du Tsaratanana, vers 1 700 m. alt. Janvier 1923', *H. Perrier de la Bâthie 15286* (P00389621, holo.; P00389619, P00389620, iso.).

Distribution: Madagascar.

**Alsophila thomsonii** *(Baker) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea thomsonii* Baker in Journal of Botany, British and Foreign 1881: 180 (1881b).
Type: 'Lower plateau round Lake Nyassa', *J. Thomson s.n*. (K, holo.).

*C. zambesiaca* Baker in Annals of Botany 8: 121, 122 (1894).
Type: 'Nyassa-land', *J. Buchanan s.n.* (K, holo.).

Distribution: Angola, Burundi, DRC, Malawi, Mozambique, Tanzania, Zambia, Zimbabwe.

**Alsophila tsilotsilensis** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea tsilotsilensis* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 681 (14 Nov. 1941b).
Type: 'Col de Tsilotsilo; forêt ombrophile, sur latérite de gneiss, 1 300 m.', *H. Humbert 14115* (P00389552, holo.; P00389550, P00389551, iso.).

Distribution: Madagascar.

**Alsophila viguieri** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea viguieri* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 682 (14 Nov. 1941b).
Type: 'Province d'Andovoranto, district de Moramanga', *R. Viguier et H. Humbert 825* (P00404447, holo.; P00404444, P00404445, P00404446, iso.).

Distribution: Madagascar.

**Alsophila welwitschii** *(Hook.) R.M.Tryon*, Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea welwitschii* Hook. in Synopsis filicum 1: 21 (24 Jul. 1865).
Type: 'S. Thomé, 900–2 000 m', *G. Mann 1104* (K000227925!, K000227926!, lecto.), designated by Holttum (1981: 475).

Distribution: São Tomé.

**Alsophila zakamenensis** *(Tardieu) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 31 (1 Aug. 1970).

*Cyathea zakamenensis* Tardieu in Bulletin de la Société Botanique de France 88,7/8: 683, pl. 1, fig. 3 (14 Nov. 1941b).
Type: 'Forêt ombrophile, vers 1 200 m., massif de l'Andrangovalo, Sud-Est u Lac Alaotra, réserve no 3, dite de Zakamena, bassin de l'Onibe', *H. Humbert et G. Cours 17880* (P00389470!, holo.; P00389469!, iso.).

Distribution: Madagascar.

### SPHAEROPTERIS

**Sphaeropteris** *Bernh.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 90 (1801), non Wall. (1829: no. 183). Type: *S. medullaris* (Forst.) Bernh.; *Polypodium medullare* Forst.

**Sphaeropteris cooperi** *(Hook. ex F.Muell.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 200: 24 (1 Aug. 1970).

*Alsophila cooperi* Hook. ex F.Muell., Fragmenta phytographiae Australiae 5: 117 (Apr. 1865–Dec. 1866).
Type: Australia. "Wollongong, Wools", *S.E. Woods s.n.* (MEL, lecto.), designated by Tindale (1956: 358).

*Cyathea cooperi* (Hook. ex F.Muell.) Domin, Pteridophyta: 262 (Oct. 1929a).

*A. excelsa* Endl. var. *cooperi* (Hook. ex F.Muell.) Domin in Bibliotheca Botanica 20,85: 31 (1915).

*C. brownii* Domin var. *cooperi* (Hook. ex F.Muell.) Domin in Acta Botanica Bohemica 9: 101 (1930).

Distribution: native to Australia, now naturalised in Mauritius, Réunion, South Africa and Tanzania.

## DICKSONIACEAE

**Dicksoniaceae** *M.R.Schomb*., Reisen in British-Guiana 3: 1047 (7–10 Mar. 1849), nom. cons. over *Thyrsopteridaceae* C.Presl (1847: 22, 38), based on *Dicksonieae* Gaudich. (1829: 367).

*Dicksonieae* Gaudich., Voyage autour du monde, entre pris par ordre du roi, .... exécuté sur les corvettes de S.M. l'Uranie et la Physicienne 9: 387 (18 Jul. 1829). Type: *Dicksonia* L'Hér.

### DICKSONIA

**Dicksonia** *L'Hér*., Sertum anglicum 1: 30, 31, t. 43 (Jan. 1789), p.p. Type: *Dicksonia arborescens* L'Hér.

**Dicksonia antarctica** *Labill*., Novae Hollandiae plantarum specimen 2,15: 100 (Feb. 1806); pl. 249 (Aug. 1807).
Type: 'Habitat in capite Van-Diemen', *J.J.H. Labillardière s.n*. (FI403852, holo.).

Distribution: naturalised in South Africa.

**Dicksonia arborescens** *L'Hér*., Sertum anglicum 1: 31, pl. 43 (Jan. 1789).
Type: 'Habitat in insulâ Sanctâ Helenâ', 1771, *J. Banks & D. Solander s.n*. (BM, holo.).

*Balantium arborescens* (L'Hér.) Hook., Genera filicum: pl. 20 (1838).

*B. auricomum* Kaulf., Enumeratio filicum: 228, 229, pl. 1, fig. 13 (Oct. 1824).

*D. auricoma* (Kaulf.) Spreng., Systema vegetabilium, edn 16, 4,1: 122 (Jan. 1827).

*D. integra* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 90 (1801).
Type: Sine loc., *sine coll. s.n.* (not located).

Distribution: St Helena.

## POLYPODIALES *Link*, Hortus regius botanicus berolinensis 2: 5 (Jul.–Dec. 1833b), as '*Polypodiaceae*'

### ADIANTACEAE

**Adiantaceae** *Newman*, *A history of British ferns*: 5 (1–5 Feb. 1840), nom. cons. over *Parkeriaceae* Hook. Type: *Adiantum* L.

*Filicaceae* tr. *Adiantaceae* C.Presl, Tentamen pteridographiae: 139 (Oct. 1836). Type: *Adiantum* L.

*Pteridaceae* Rchb. subfam. *Adiantoideae* (C.Presl) R.M.Tryon in American Fern Journal 76,4: 184 (1986a). Type: *Adiantum* L.

*Vittariaceae* Ching in Sunyatsenia 5,4: 210, 232 (30 Oct. 1940a), based on *Vittariaeae* C.Presl (1836: 164),

*Filicaceae* tr. *Vittariaeae* C.Presl, Tentamen pteridographiae: 164 (Oct. 1836), p.p., as '*Vittariaceae*'. Type: *Vittaria* Sm.

*Polypodiaceae* Bercht. & J.Presl subfam. *Vittarioideae* (C.Presl) C.Chr. in Manual of pteridology: 539 (3 Apr. 1938).

*Adiantaceae* (C.Presl) Ching subfam. *Vittarioideae* (C.Presl) Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 154 (30 Jul. 1975).

*Antrophyaceae* Ching in Acta Phytotaxonomica Sinica 16,3: 11 (Aug. 1978a). Based on *Anthrophyoideae* Link, Filicum species: 140 (3–10 Sep. 1841), as '*Antrophyaceae*'. Type: *Antrophyum* Kaulf.

*Antrophyaceae* (Link) Ching in Acta Phytotaxonomica Sinica 16,3: 11 (1978a).

#### ADIANTUM

**Adiantum** *L*., Species plantarum 2: 1094 (1 May 1753). Lectotype: *Adiantum capillus-veneris* L., designated by Smith (1875: 274).

**Adiantum aethiopicum** *L*., Systema naturae, edn 10, 2: 1329 (May–Jun. 1759).
Provenance: "Habitat [ad Cap. B. spei.] Sp. Pl., edn 2, 2: 1560 (1763)". Lectotype: Herb. Linn. No. 1252.15 (LINN), designated by Pichi Sermolli (1957: 695).

Distribution: South Africa.

**Adiantum balfourii** *Baker* in Hooker's Icones Plantarum 17,2: pl. 1630 (Jun. 1886b).
Type: 'Mountains of the island of Socotra', *I.B. Balfour, N.C. Cockburn & H. Scott 198* (K, holo.).

Distribution: Djibouti, Ethiopia, Socotra, Somalia, Sudan.

**Adiantum capillus-veneris** *L.*, Species plantarum 2: 1096 (1 May 1753).
Provenance: "Habitat in Europa australi." Lectotype: *Magnol*, Herb. Linn. No. 1252.9 (LINN), designated by Pichi Sermolli (1957: 678).

*A. coriandrifolium* Lam., Flore française 1: 29 (1779), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *A. capillus-veneris* L.

*A. fontanum* Salisb., Prodromus stirpium in horto ad Chapel Allerton vigentium: 404 (Nov.–Dec. 1796), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *A. capillus-veneris* L.

*A. capillus* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 83 (1801), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *A. capillus-veneris* L.

*A. emarginatum* Bory ex Willd., Species plantarum, edn 4, 5,1: 449, 450 (25–27 Jun. 1810).
Type: 'Habitat in rupibus ad latus torrentum insulae Borboniae', *sine coll. s.n*. (not located).

*A. fumarioides* Willd., Species plantarum, edn 4, 5,1: 452 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *D. Flügge s.n*. (B-W 20100!, holo.).

*A. africanum* R.Br. in Narrative of an expedition to explore the river Zaire, Appendix 5: 463 (1818a).
Type: 'Madeira', *C. Smith s.n*. (not located).

*A. marginatum* Schrad. in Göttingische Gelehrte Anzeigen 1818: 918 (1818).
Type: Cape Province, *C.H.F. Hesse s.n*. (LE, lecto.), designated by Schelpe & Anthony (1986: 101).

*A. pseudocapillus* Fée, Cinquième mémoires sur la famille des fougères: 118 (1852), as '*pseudo-capillus*'.
Type: 'Habitat ad promontorium Bonae Spei', *J.F. Drège s.n.* (K, ?iso.).

*A. trifidum* Willd. ex Bolle in Bonplandia 3,10: 121 (1855).
Type: "St Nicolai, VIII.1851", *C. Bolle s.n.* (B20 0002523, lecto.), designated by Lobin *et al.* (1998: 19).

*A. capillus-veneris* L. var. *trifidum* (Willd. ex Bolle) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 30 (1 Oct.–5 Nov. 1867).

*A. paradiseae* Baker in The Gardeners' Chronicle 6: 558 (1889b).
Type: 'Cape Colony, district of Bedford', *Paradise s.n.* (K, holo., missing; PRE0085502-0!, iso.).

*A. capillus-veneris* L. var. *pinnata* Bonap. in Notes Ptéridologiques 4: 78 (19 May 1917b).
Type: Madagascar. 'Région floristique de l'Ouest. Ambongo. Bois de Namoroka. A l'entrée d'une grotte calcaire, Janvier 1904', *H. Perrier de la Bâthie 7669* (P00483363!, P00483364!, holo.).

*A. capillus-veneris* L. var. *kenyense* Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 146 (1935).
Type: 'Mt. Kenya NE, distr. Meru a Keja lungo un rigagnolo, 23-VII e 8-XII-1912', *Balbo 760, 760 bis* (TOM, syn.); 'S, Fort Hall, Sagana River, epifita presso la grotta dei pipistrelli, 21-IX-1911', *Balbo 770* (TOM, syn.).

Chromosome number: n = 60 (Manton 1959: 79).

Distribution: Algeria, Angola, Botswana, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo, Brava), Chad, Comoro Isl. (Anjouan, Grande Comore, Majotte), Dji-

bouti, DRC, Egypt, Ethiopia, Kenya, Lesotho, Libya, Madagascar, Malawi, Mali, Mauritania, Morocco, Mozambique, Namibia, Nigeria, Rodrigues Isl., Rwanda, Socotra, Somalia, South Africa, Sudan, Swaziland, Tanzania, Tunisia, Uganda, Zambia, Zimbabwe.

See Plate 4B.

**Adiantum comorense** *(Tardieu) Verdc*. in Kew Bulletin 47,2: 272 (1991), as '*comoroense*'.

*A. rhizophorum* Sw. var. *comorense* Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 129, 130, fig. 18, t. 9–14 (May 1958b).
Type: Comoro Isl., Anjouan, *J.M. Hildebrandt 1752* (P00139661!, lecto.), designated by Verdcourt (1991: 272); (P00139662!, K000435596!, isolecto.).

Distribution: Cameroon, Comoro Isl. (Anjouan), Cote d'Ivoire, Ghana, Kenya, Malawi, Rodrigues Isl., Tanzania, Togo, Uganda.

**Adiantum confine** *Fée* in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 14, t. 32, fig. 1 (1866a).
Type: 'Habitat in insula Mascarenensi', *De Montbrison s.n*. (P00483365!, holo.).

*A. reniforme* L. var. *crenatum* Baker in Journal of Botany, British and Foreign 1891: 4 (1891b).
Type: Madagascar, Bé Kilus Mountains, *J.L. Last s.n*. (K000435585!, holo.).

Chromosome number: n = 60 (Manton 1959: 78).

Distribution: Madagascar.

**Adiantum formosum** *R.Br*., Prodromus florae Novae Hollandiae: 155 (1–7 Apr. 1810).
Type: Australia, New South Wales, Port Jackson, *R. Brown*, Iter Austral. 67, 68 (BM, K, syn.; MEL, isosyn.).

Distribution: Tanzania (naturalised).

**Adiantum hirsutum** *Bory*, Voyage dans les quatre principales îles des mers d'Afrique 1: 198 (Sep. 1804a).
Type: "l'Ile de france", *J.B.G.M. Bory de St.-Vincent s.n*. (P00483366!, holo.).

Distribution: Madagascar, Mauritius, Réunion.

**Adiantum hispidulum** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 82 (1801), var. **hispidulum**.
Type: probably from Australia, *sine coll. s.n*. (S, holo.).

*A. lobulatum* Ettingsh., Die Farnkräuter der Jetzwelt: 82, pl. 32, t. 47, fig. 7 (Nov.–Dec. 1864).
Type: 'Inseln St Mauritius und Comaren', *?L.H. Boivin s.n*. (W, holo.).

Notes: two sheets are held at W, one gives the locality as "Mauritius 1846–48" and the other as "Ins. Comores", both being Boivin collections. These collections may be eligible as types. Reported to be an apogamous hexaploid based on n = ± 180 (Manton & Sledge 1954: 136).

Distribution: Madagascar, Rodrigues Isl., South Africa.

**Adiantum incisum** *Forssk*., Flora aegyptico-arabica: CXXV, 187 (1 Oct. 1775).
Type: Yemen, Hâdie, *P. Forsskål 813* (C, holo.).

*A. capillus-gorgonis* Webb in Niger Flora: 192, 193 (1849).
Type: 'In muris Sacchari agrorum villium insulae S. Nicolai, 30 Martii 1822', *A.L.S. Forbes 21* (K!, lecto.), designated by Lobin (1986: 95); (P, isolecto.); 'ad apicem Montis Verede, ins. S. Vincentii, 5 Junio 1841', *T. Vogel 5* (P, syn., FT, K, isosyn.); 'In sylvis Euphorbiae et alibi passim in ins. S. Nicolai, 30 Martii 1822', *A.L.S. Forbes 3* (P, syn.).

*A. radicans* Fée, Cinquième mémoires sur la famille des fougères: 114, 118, t. 29, fig. 2 (1852).
Type: 'Habitat in insulâ Borbiniâ', *A. Pervillié s.n*. (not located).

*A. caudatum* L. var. *hirsutum* (Bory) Mett. ex Kuhn, Filices africanae: 63 (Oct. 1868).

*A. caudatum* L. var. *capillus-gorgonis* (Webb) Cout. in Arquivos da Universidade de Lisboa 1: 268 (1914).

*A. caudatum* L. var. *laciniatum* Bonap. in Notes Ptéridologiques 4: 78, 79 (19 May 1917b), as '*laciniata*'.
Type: Madagascar. 'Bemaraha. Antsingy. Anfractuosités ombragées des rocs. Dans les calcaires coralliens du Bathonien, Août 1911', *H. Perrier de la Bâthie 7915* (P00483367!, holo.; P00483368!, iso.).

*A. caudatum* L. var. *glabripinnatum* Bonap. in Notes Ptéridologiques 14: 302, 303 (23 Nov. 1923b).
Type: 'Forêt vierge aux bords de la Semliki. Sur sol ombragé. Le 20 mars 1914', *J.C.C. Bequaert 3070* (P00507757, holo.; P00507756, iso.).

*A. caudatum* sensu Hook. Synopsis filicum 4: 115 (22 Jan. 1867b), p.p.

*A. zollingeri* sensu Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 266 (1901), non Mett. ex Kuhn (1869c: 280).

Chromosome number: n = 60 (Manton 1959: 78).

Distribution: Angola, Botswana, Burundi, Cape Verde Isl. (St Antão, S. Vicente, S. Nicolau, Santiago, Fogo), Comoro Isl. (Grande Comore, Mayotte), Ghana, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Nigeria, Réunion, Rwanda, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

**Adiantum lunulatum** *Burm.f*., Flora indica: 235 (1 Mar.–6 Apr. 1768a).
Type: Rheede, Hort. Malab. 12: 72, t. 40 (1703), a specimen from Java with no details cited (G, syn.). This differs from the lectotypification of Morton (1974: 370).

*Pteris lunulata* (Burm.f.) Retz., Observationes botanicae 2: 28, pl. 4 (1781).

*A. philippense* L., Species plantarum 2: 1094 (1 May 1753), nom. dub., see Verma (1961: 463–467).
Provenance: "Habitat in Philippinis". Lectotype: "*Adiantum Philippense, folio rotundo laciniato*" in Petiver, Gazophylacii naturae artis et decas prima 8: t. 4, fig. 4 (1702). Based on a plant from the Philippine Islands. The plant illustrated may not represent a fern.

*A. lunatum* Cav., Descripción de las plantas 1: 272 (1801a).
Type: Marianna & Philippine Is. & Mexico, Acapulco, *L. Née s.n*. (MA, syntypes).

*A. arcuatum* Sw., Synopsis filicum: 122 (Mar.–Apr. 1806b), nom. superfl. [McNeill *et al.* (2006) Art. 53.1].
Type: As for *Adiantum lunatum* Cav.

*A. lunulatum* Burm.f. var. *fissum* H.Christ in Bulletin de la Société Botanique de France 55,2 Mémoire 8b: 106 (1908).
Type: "Soudan occidental, Tabacco, 10/1899", *A. Chevallier 2920* (P00507751!, syn.); "Soudan occidental: Ta-

bacco", *A. Chevallier 2921* (P00507750!, syn.); "Soudan: Koulikoro, 8/1899", *A. Chevallier 2919* (P00507752!, syn.); "Soudan: Koulikoro, 8/1899", *A. Chevallier 2918*! (P00507753!, P00507754!, P00507755!, syn.); "Bassin de la Hte Tomi, Pays des Ndis, de Ouaka à la Yambéré", *A. Chevallier 5753* (P00507748!, P00507749, syn.); "Poste de la Nana", *A. Chevallier 6243* (P00507745, P00507746, P00507747, syn.).

*A. lunulatum* Burm.f. var. *pteropus* (R.Br.) Bonap. in Bulletin du Muséum d'Histoire Naturelle. Paris 13,6: 387 (1913).

*A. lunulatum* Burm.f. var. *lobatum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 51 (Feb. 1932a). Type: Ankaizina (Ankaiziana), *R. Decary 1761* (P?, holo.).

*A. philippense* L. var. *lobatum* C.Chr. in Dansk Botanisk Arkiv 7: 124 (Oct. 1932b).

Chromosome number: apogamous, n = 90 (Manton 1959: 78).

Distribution: Angola, Benin, Bioko, Burkina Faso, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo, Brava), Central Africa Republic, Chad, Comoro Isl. (Anjouan, Mayotte, Mohély), Congo, Coté d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Niger, Nigeria, São Tomé, Senegal, Sierra Leone, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Adiantum madagascariense** *H.Rosend*. in Arkiv för Botanik 14,18: 1, 2, t. 1, figs 1, 2 (1916), var. **madagascariense**.
Type: 'Madagascar: Moramanga, prope Lac du Tangen, ad terram, 14/10/1912', *K.R. Afzelius et B.T. Palm s.n.* (?S, holo.).

Distribution: Madagascar.

**Adiantum madagascariense** *H.Rosend*. var. **prolongatum** *(Bonap.) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 129 (May 1958b).

*A. rhizophorum* Sw. var. *prolongatum* Bonap. in Notes Ptéridologiques 4: 79 (19 May 1917b).
Type: Madagascar. 'Région floristique de l'Est. Rivière Maningary. Vers 800 mètres d'altitude. Bois secs, Septembre 1912', *H. Perrier de la Bâthie 7875* (P00483369!, holo.; P00483370!, iso.).

Distribution: Madagascar.

**Adiantum mendoncae** *Alston* in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 19, t. 6, 7 (1954).
Type: 'Moçambique, Chimoio, fundo da Cataracta do Revuè, feto rizomatoso sobre as rochas das marges do rio, 31 Out. 1944', *F.A. Mendonça 2558* (LISC, holo.; BM, COI, LMA!, iso.).

Distribution: Mozambique, Zimbabwe.

**Adiantum patens** *Willd*. subsp. **oatesii** *(Baker) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 203 (1967).

*A. oatesii* Baker in Matabeleland and the Victoria Falls. Appendix 5, Botany: 369, pl. K (1881a).
Type: Rhodesia, Victoria Falls, *F. Oates s.n*. (K000435586!, holo.).

*A. patens* Willd. var. *oatesii* (Baker) F.Ballard in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1940: 30 (12 Mar. 1940).

*A. pedatum* Peter in Feddes Repertorium, Beiheft 40,1: 45, Anhang: 4–5, t. 5, fig. 1 (1929).
Type: 'DOAfr., Uha: Mkigo—Lussimbi in einer Schlucht 1615–1570', *A. Peter 38792* (B20 0051641!), lecto., designated by Verdcourt (2002a: 59).

Chromosome number: 2n = ± 120 (Manton 1959: 78).

Distribution: Burundi, Cameroon, DRC, Ghana, Nigeria, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Adiantum phanerophlebium** *(Baker) C.Chr*. in Dansk Botanisk Arkiv 7: 123, pl. 49 (Oct. 1932b).

*Pteris phanerophlebia* Baker in Journal of Botany, British and Foreign 1881: 367 (1881c).
Type: Sine loc., *C. Curtis 126* (K, holo.).

*Doryopteris phanerophlebia* (Baker) Diels in Die natürlichen Pflanzenfamilien 1,4: 269 (Oct. 1899b).

Distribution: Madagascar.

**Adiantum poiretii** *Wikstr*. in Kongliga Svenska Vetenskaps Academiens Handlingar 1825: 443 (1826), nom. nov. for *Adiantum crenatum* Poir. (1810: 137), non Willd. (1810: 446).
Type: 'Iîle de Tristan d'Acugna', *L.-M.A. du Petit-Thouars s.n*. (P-JU 1427!, holo.).

*A. crenatum* Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 137 (3 Sep. 1810), non Willd. (1810: 446).

*A. assimile* Sw., Synopsis filicum: 125, 322, t. 3, fig. 4 (Mar.–Apr. 1806b).
Type: 'Habitat in Nova Hollandia', *sine coll. s.n*. (?S, holo.).

*A. sulphureum* Kaulf., Enumeratio filicum: 207 (Oct. 1824).
Type: 'Habitat in Chile', *L.A. von Chamisso s.n*. (LE, holo.; P, iso.).

*A. poiretii* Wikstr. var. *sulphureum* (Kaulf.) R.M.Tryon in American Fern Journal 47,4: 139 (26 Dec. 1957).

*A. thalictroides* Schltdl., Adumbrationes plantarum 5: 53 (1832).
Type: 'Crescit in insula Mauritii', *L.-M.A. du Petit-Thouars s.n.* (B-W 20101, lecto.), designated by Verdcourt (2002a: 63); 'inque Promontorio bonae spei in montis tabularis descensu boreali', *C.H. Bergius s.n*. (B20 0006422!, B20 0006423!, syn.).

Chromosome number: 2n = 114 (Manton 1959: 78); octoploid, 2n = 228 (Manton & Vida 1968: 364).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Mayotte), Congo, DRC, Eritrea, Ethiopia, Gough Island, Inaccessible Isl., Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Nigeria, Réunion, Rwanda, Socotra, South Africa, Sudan, Swaziland, Tanzania, Tristan da Cunha, Uganda, Zambia, Zimbabwe.

**Adiantum raddianum** *C.Presl*, Tentamen pteridographiae: 158 (Oct. 1836).
Type: 'S. Brazil, Ilha de Santa Catarina', *G.H. von Langsdorff s.n*. (LE, holo.; BM, iso.).

*A. cuneatum* Langsd. & Fisch., Plantes recueillies pendant le voyage des Russes autour du monde 1, Icones filicum: 23, pl. 26 (1810), non G.Forst. (1786b: 84).
Type: 'Ins. St Cathara, Brazil', *G.H. von Langsdorff s.n.* (LE, holo.; BM, iso.).

Distribution: Ascension Isl., Kenya, Malawi, Mozambique, Príncipe, São Tomé, South Africa, St Helena, Tanzania, Uganda, Zimbabwe (naturalised).

**Adiantum reniforme** *L.*, Species plantarum 2: 1094 (1 May 1753).
Provenance: "Habitat in Madera". Lectotype: "*Filix Hemionitis dicta maderensis pediculis splendentibus nigris, crenatis foliis Asari rotundioribus crenatum segmentis oblongo quadratis, ob semina adnascentia per ambitum circumcirca reflexis*" in Plukenet, Phytographia t. 287, fig. 5 (1696), designated by Verdcourt (2002a: 52).

*A. asarifolium* Willd., Species plantarum, edn 4, 5,1: 427, 428 (25–27 Jun. 1810).
Type: "Habitat in Borbonia", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20064!, lecto.), designated by Verdcourt (2002a: 52).

*A. reniforme* L. var. *asarifolium* (Willd.) Cordem., Flore de l'Ile de la Réunion: 45 (1895).

*A. reniforme* L. subsp. *asarifolium* (Willd.) C.Chr., Index filicum: 23 (5 May 1905).

*A. reniforme* L. var. *hydrocotyloides* Cordem., Flore de l'Ile de la Réunion: 45 (1895).
Type: 'Réunion, Plaine des Palmistes. Cascade Biberon', *H.J. de Cordemoy s.n.* (MARS, syn.).

*A. flabellum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 50 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar, Bé Kilus Mts., *J.L. Last s.n.* (K000435585!, holo.).

*A. flabellum* C.Chr. in Dansk Botanisk Arkiv 7: 123, t. 48 (1932b), nom. nov. for *A. reniforme* var. *crenatum* Baker, non *A. crenatum* Poir. (1810: 137), nec. Willd. (1810: 446).
Type: "Be Kilus Mountains. North West Madagascar", *J.L. Last s.n.* (K000435585!, holo.).

Distribution: Cape Verde Isl. (Sto. Antão), Comoro Isl., DRC, Kenya, Madagascar, Malawi, Mauritius, Réunion, Tanzania.

**Adiantum rhizophorum** *Sw.*, Synopsis filicum: 320, 422 (Mar.–Apr. 1806b).
Type: 'Insula Franciae, Borboniae', *sine coll. s.n.* (S, syn.).

Distribution: Rodrigues Isl.

**Adiantum schweinfurthii** *Kuhn* in Botanische Zeitung (Berlin) 28,6: 89, 90 (11 Feb. 1870).
Type: Sudan, Huuh, 1 June 1870, *G.A. Schweinfurth 3814* (B20 0007112!, B20 0007114!, holo.; K000435590!, iso.).

*A. chevalieri* H.Christ in Bulletin de la Société Botanique de France 55,2, Mémoire 8b: 105 (Aug. 1908).
Type: "Soudan occidental, Tabacco, 27/10/1899", *A. Chevalier 2917* (P00483376, holo.; K000435593!, P00483377, P00483378, P00507759, iso.).

Distribution: Angola, Cameroon, Central African Republic, DRC, Guinea, Mali, Nigeria, Sudan, Tanzania, Togo.

**Adiantum soboliferum** *Hook.*, Species filicum 2,5: 13, pl. 74A (May 1851).
Type: Burma, Ava Mts., *N. Wallich 74* (K, holo.; K, iso.).

*A. mettenii* Kuhn in Jahrbuch des Königlichen Botanischen Gartens und des Botanischen Museums zu Berlin 1: 338, 339 (1881).
Type: Angola, Golungo Alto, near Canquerasange, Capupa, *F.M.J. Welwitsch 150* (B, lecto.), designated by Verdcourt (2002a: 57); (BM, K000435587!, K000435588!, isolecto.).

*A. balansae* Baker in Journal of Botany, British and Foreign 28: 263 (1890).
Type: Vietnam, Dongso, *B. Balansa 134* (K, holo.).

*A. alatum* Copel. in Fragmenta florae Philippinae 3: 192 (20 Feb. 1905).
Type: Philippine Is., Luzon, 'Ad Reservationem silvestrem lamaoensem', 100 m. s. m., *E.B. Copeland 1399* (MICH?, holo., K, iso.).

*A. alatum* Peter in Feddes Repertorium, Beiheft 40,1: 43, Anhang: 4 (1929), non *A. alatum* Copel. (1905: 192), nom. nud. [McNeill *et al.* (2006) Art. 53.1]
Type: 'DOAfr., Handei: wald bei Maneno Mbangu - Maramba 300', *A. Peter 25303* (GOET?, holo.).

Chromosome number: n = 60 (Manton 1959: 78).

Distribution: Angola, Annobon, Central African Republic, Comoro Isl., Congo, DRC, Ghana, Madagascar, Mozambique, São Tomé, Tanzania, Uganda.

**Adiantum stolzii** *Brause* in Botanische Jahrbücher 53: 387, 388 (1915).
Type: 'Deutsch-Ostafrika: Kyimbila, 1 350 m ü. M., 20 März 1911', *A. Stolz 659* (B20 0007248!, holo.; K000435589!, LD, P00483374!, P00483375!, iso.).

Distribution: Tanzania.

**Adiantum vogelii** *Mett. ex Keyserl.* in Mémoires de l'Académie Impériale des Sciences de Saint Pétersbourgh, Septième sér. 22,2: 8, 31 (1875).
Type: Fernando Po, *T. Vogel s.n.* (?147) (?B, lecto.), designated by Schelpe (1969b: 55); (K000435592, isolecto.).

*A. tetraphyllum* Willd. var. *vogelii* (Mett. ex Keyserl.) Mett. ex De Wild. in Bulletin du Jardin Botanique de l'État à Bruxelles 4: 35 (Mar. 1914).

*A. tetraphyllum* Willd. var. *obtusum* Mett. ex Kuhn, Filices africanae: 66 (Oct. 1868), as '*obtusa*'.
Type: 'Ins. Fernando Po', *G. Mann 141* (K000435591!, syn.); Nigeria, Aboh, *C. Barter 1458* (B, syn., BM, K000435594!, isosyn.); 'Congo, Banza', *Smith s.n.* (B, syn.); 'Ins. Fernando Po', *T. Vogel 147* (K000435592!, syn.).

*A. tetraphyllum* Willd. var. *tenerum* Sadeb. in Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten 14, Beiheft 3: 4 (1897).
Type: 'Kamerungebiet, Auf feuchter Erde am Ufer des Lokundje, 27.XI.1890 und 3.X.1890', *M.J. Dinklage 297* (HBG?, holo.).

*A. tetraphyllum* sensu Kuhn, Filices africanae: 66 (Oct. 1868), non Humb. et Bonpl. ex Willd. (1810: 441, 442).

Chromosome number: n = 60 (Manton 1959: 78).

Distribution: Angola, Benin, Bioko, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, Senegal, Sierra Leone, Tanzania, Togo, Uganda, Zanzibar.

## ANTROPHYUM

**Antrophyum** *Kaulf.*, Enumeratio filicum: 197 (Oct. 1824). Type: *Antrophyum reticulatum* (G.Forst.) Kaulf.; *Hemionitis reticulata* G.Forst.

*Antrophyum* Kaulf. subgen. *Bathia* C.Chr. in Bonap., Notes Ptéridologiques 16: 110 (14 Apr. 1925a). Type: three species are listed as belonging to the subgenus, but none are indicated as being the type.

*Scoliosorus* T.Moore, Index filicum 1: xxix (1857b). Type: *Scoliosorus ensiformis* (Hook.) T.Moore; *Antrophyum ensiforme* Hook.

**Antrophyum annetii** *(Jeanp.) Tardieu* in Mémoires de l'Institut Français d'Afrique Noire 28: 205 (1953d).

*A. subsessile* Kunze var. *annetii* Jeanp. in Bulletin de la Société Botanique de France, sér. 4, 68: 328 (1921).
Type: 'Lolodorf, mont Findé', *E. Annet s.n*. (P00483387!, holo.).

Distribution: Cameroon.

**Antrophyum bivittatum** *C.Chr*. in Bonap., Notes Ptéridologiques 16: 110, 111, pl. 1, figs a–e (14 Apr. 1925a).
Type: Madagascar. 'Forêt d'Analamazaotra, 800 mètres d'altitude. Épiphyte. Janvier', *H. Perrier de la Bâthie 7513* (P00483388!, P00483389!, syn.); Madagascar. 'Massif d'Andringitra, 2 000 mètrs d'altitude. Sur les troncs. Septembre 1911', *H. Perrier de la Bâthie 7521* (P00483392!, P00483393!, syn.).

Distribution: Madagascar.

**Antrophyum boryanum** *(Willd.) Spreng*., Systema vegetabilium, edn 16, 4,1: 67 (Jan. 1827), var. **boryanum**.

*Hemionitis boryana* Willd., Species plantarum, edn 4, 5,1: 128 (25–27 Jun. 1810).
Type: "Sur le ponce dans les bois a l'Ile de france", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19562-01 0, holo.; P00483380!, iso.).

*Scoliosorus boryanum* (Willd.) E.H.Crane in Systematic Botany 22,3: 515 (1997).

Distribution: Comoro Isl. (Anjouan), Tanzania, Comoro Isl., Madagascar, Réunion, Mauritius.

**Antrophyum boryanum** *(Willd.) Spreng*. var. **obtusum** *(Bory ex Willd.) C.Chr*. in Dansk Botanisk Arkiv 7: 146 (Oct. 1932b).

*Hemionitis obtusa* Bory ex Willd., Species plantarum, edn 4, 5,1: 127 (25–27 Jun. 1810).
Type: 'Habitat in insula Borboniae ad radices arborum', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19559-01 0; P00483379, iso.).

*A. obtusum* (Bory ex Willd.) Spreng., Systema vegetabilium, edn 16, 4,1: 67 (Jan. 1827).

*Vittaria boryanum* (Willd.) Spreng. var. *obtusum* (Willd.) C.Chr. in Dansk Botanisk Arkiv 7: 146 (Oct. 1932b).

*A. giganteum* Bory in Voyage aux Indes Orientales. Botanique 2,1: 36 (25 May 1833).
Type: "Ile Maurice", *J.B.G.M. Bory de St.-Vincent s.n*. (P00483382!, holo.; P00483381!, iso.).

Distribution: Madagascar, Mauritius, Réunion.

**Antrophyum callifolium** *Blume*, Enumeratio plantarum Javae 2: 111 (15 Dec. 1828), as '*callaefolium*'.
Type: 'Crescit in Javae sylvis altioribus', *sine coll. s.n*. (not located).

Distribution: Mahe, Silhouette Isl.

**Antrophyum immersum** *(Bory ex Willd.) Hook. & Baker*, Synopsis filicum 9: 393 (29 Jan. 1868a).

*Hemionitis immersa* Bory ex Willd., Species plantarum, edn 4, 5,1: 127 (25–27 Jun. 1810).
Type: "Bourbon", *J.B.G.M. Bory de St.-Vincent s.n*. (B20 0009198, holo.).

*A. hookerianum* Kunze in Botanische Zeitung (Berlin) 6,10: 198 (1848c), nom. nov. for *Antrophyum immersum* Hook. & Grev., non (Bory) Mett. (1868–1869: 171).
Type: Hooker & Greville, Icones filicum: pl. 46 (1827c).

*A. pumilum* Kaulf., Enumeratio filicum: 197 (Oct. 1824).
Type: 'Habitat in rupibus insulae Borboniae', *sine coll. s.n*. (not located).

*H. hookeriana* C.Presl, Tentamen pteridographiae: 221 (Oct. 1836), nom. nov. for *Antrophyum pumilum* Hook. & Grev., non Kaulf. (1824: 197).
Type: As for *Antrophyum pumilum* Hook. & Grev.

Distribution: Comoro Isl. (Grande Comore), Liberia, Madagascar, Mauritius, Réunion, Uganda, Tanzania, Liberia, Comoro Isl.

**Antrophyum malgassicum** *C.Chr*. in Dansk Botanisk Arkiv 7: 146, pl. 55, figs 9, 10 (Oct. 1932b).
Type: Madagascar. 'Montagne d'Ambre, 1 000 m alt., sur les troncs, Sept. 1926', *H. Perrier de la Bâthie 17656* (BM, holo.).

*A. malgassicum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 56 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Antrophyum mannianum** *Hook*., A second century of ferns: pl. 73 [1860] (1861).
Type: 'Epiphytal, on trees, Peak of Fernando Po, at an elevation of 3000 feet above the sea level', 1860, *G. Mann 367* (K000049328!, K000049329!, lecto.), designated by Pichi Sermolli (1968a: 166, 167); (B20 0009388, isolecto.).

*Scoliosorus mannianum* (Hook.) E.H.Crane in Systematic Botany 22,3: 515 (1997).

*A. meniscium* Mett. ex Kuhn, Filices africanae: 57 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Fernando Po', *G. Mann 367* (K?, syn.); 'Montes Cameroon', *G. Mann 1310* (K?, syn.).

Distribution: Bioko, Burundi, Cameroon, Congo, Coté d'Ivoire, Cameroon, DRC, Equatorial Guinea, Ethiopia, Gabon, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, Sierra leone, Tanzania, Uganda.

**Antrophyum trivittatum** *C.Chr*. in Bonap., Notes Ptéridologiques 16: 111, 112, figs a–f (1925a).
Type: Madagascar. 'Mont Tsaratanana, 2 100 mètres d'altitude. Sur les troncs. Décembre 1912', *H. Perrier de la Bâthie 7999* (P00483397!, holo.; P00483398!, iso.).

*A. perrierianum* C.Chr. in Bonap., Notes Ptéridologiques 16: 112 (1925a).
Type: Madagascar. 'Ankaizina. vers 1 500 mètres d'altitude. Sur les troncs dans la mousse. Octobre 1908.' *H. Perrier de la Bâthie 7867* (P00483395!, holo.; P00483396!, iso.).

Distribution: Madagascar.

## MONOGRAMMA

**Monogramma** *Comm. ex Schkuhr*, Deutschland's kryptogamische Gewäche 2: 82, pl. 37 (20 Jul. 1811). Type: *Monogramma graminea* (Poir.) Schkuhr; *Pteris graminea* Poir.

**Monogramma graminea** *(Poir.) Schkuhr*, Deutschland's kryptogamische Gewäche 2: 82 (20 Jul. 1811).

*Pteris graminea* Poir. in Encyclopedie méthodique, Botanique 5: 708 (9 Jan. 1804).

Type: 'Cette espèce croît à l'Ile-de-France, où elle a été recueillie', *P. Commerson s.n*. (P-LA, holo.; P-JU 1354, FI, iso.).

*Grammitis pumila* Sw., Synopsis filicum: 214 (Mar.–Apr. 1806b). Type: As for *Pteris graminea* Poir.

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

## VITTARIA

**Vittaria** *Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 413, fig. 5 (1793). Type: *Vittaria lineata* (L.) Sm.; *Pteris lineata* L.

*Vittaria* Sm. subgen. *Haplopteris* (C.Presl) C.Chr., Index filicum: XLVI (10 Oct. 1906).

*Haplopteris* C.Presl, Tentamen pteridographiae: 141, t. 5, fig. 21 (Oct. 1836). Type: *Haplopteris scolopendrina* (Bory) C.Presl; *Pteris scolopendrina* Bory, (now *Vittaria scolopendrina* (Bory) Thwaites).

*Vittaria* Sm. sect. *Haplopteris* (C.Presl) Ching in Sinensia 1: 176 (1931).

**Vittaria elongata** *Sw*., Synopsis filicum: 109, 302 (Mar.–Apr. 1806b).
Type: 'Habitat in India orientali', *J.P. Röttler s.n*. (not located).

*Oetosis elongata* (Sw.) Greene in Pittonia 4: 106 (2 Jan. 1900).

*Haplopteris elongata* (Sw.) E.H.Crane in Systematic Botany 22,3: 514 (1997).

*V. hildebrandtii* Hieron. in Botanische Jahrbücher 53: 419–421 (1915).
Type: 'Afrikansche Inseln: Epiphytisch von Baumstämmen der Bergwälder herabhängend auf der Comoren-Insel Johanna bei 200–1 000 m ü. M., Juni–August 1875', *J.M. Hildebrandt 1761* (B, syn., K000435577!, P00149191!, P00149161!, isosyn.); 'auf der Comoren-Insel Mayotte, 1850', *L.H. Boivin 2865* (not located); 'auf der Insel Nossi-Bé an der Westküste Madagascars', 1886', *C. Keller s.n.* (B, syn.); sine loc., *L.H. Boivin s.n*. (B, syn.).

*V. hildebrandtii* Hieron. var. *major* Hieron. in Botanische Jahrbücher 53: 421 (1915).
Type: 'Afrikanische Inseln: Auf den Comoren-Inseln, ohne genauere Fundortsangabe', *L. Humblot 75* (K000435576!, P00149168!, P00149169, P00149170!, iso.).
Notes: in the original text, Humblot's collecting number is given as 75. In the Paris Herbarium, however, there are specimens giving the numbers 1075 and 1175. The '10' and '11' were added later and are in a different hand.

*V. stuhlmannii* Hieron. in Botanische Jahrbücher 53: 421–423 (1915).
Type: 'Deutsch-Ostafrika: Bei Qilimane, 10 Mäz 1889', *F. Stuhlmann 1186* (B, holo.; P00483412!, iso.).

*V. scolopendrina* sensu Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 71 (Aug.–Sep. 1879), non (Bory) Thwaites (1864: 381).

*V. zeylanica* sensu Peter in Feddes Repertorium, Beiheft 40,1: 51 (1929), non Fée (1852: 15).

Distribution: Comoro Isl. (Grande Comore, Mayotte), Kenya, Madagascar, Mauritius, Mozambique, Pemba, Seychelles, Tanzania, Zimbabwe.

**Vittaria ensiformis** *Sw*. in Neue Schriften, Gesellschaft Naturforschender Freunde zu Berlin 2: 134, 135, t. 7, fig. 1 (1799).
Type: Mauritius, *P. Sonnerat s.n*. (P, holo.).

*Oetosis ensiformis* (Sw.) Greene in Pittonia 4: 106 (2 Jan. 1900).

*V. elongata* Sw. var. *ensiformis* (Sw.) C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 420 (Nov. 1912).

*Haplopteris ensiformis* (Sw.) E.H.Crane in Systematic Botany 22,3: 514 (1997).

*V. plantaginea* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 325 (Sep. 1804b).
Type: "Habitat in insula Borbonia", *J.B.G.M. Bory de St.-Vincent s.n*. (P00483399!, holo.; B-W 20031!, K000435579!, iso.).

*V. tenera* sensu Peter in Feddes Repertorium, Beiheft 40,1: 51 (1929), non Fée (1852: 17).

Distribution: Madagascar, Mauritius, Tanzania, Zimbabwe.

**Vittaria guineensis** *Desv*. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 325 (1811), var. **guineensis**.
Type: "Habitat in Owaria", *A.M.F.J. Palisot de Beauvois s.n*. (P00483400!, holo.; B-W 20028!, iso.).

*Pteris guineensis* (Desv.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 293 (Jul. 1827).

*Haplopteris guineensis* (Desv.) E.H.Crane in Systematic Botany 22,3: 514 (1997).

*V. congoensis* H.Christ in Mission Émile Laurent 1903–1904: 9, pl. 1 (Aug. 1905a).
Type: Congo. 'Falaises du Sankuru, à Batempa, 27 novembre 1903', *É. Laurent s.n*. (BR, holo.).

*V. guineensis* Desv. var. *cancellata* Hieron. in Botanische Jahrbücher 53: 425, 426 (1915).
Type: 'Liberia: An Ölpalmen auf sandigem Strandwall, ± 3 m ü. M. bei Grand Bassa, 21 Nov. 1908', *M.J. Dinklage 2279* (not located); 'an Flusse Cestos, ± 3 m ü. M., bei Grand Bassa, ebenfalls an Ölpalmstämmen, 30 Mai 1898', *M.J. Dinklage 1909* (not located); 'bei Whitepairs am Flusse St Paul auf Liberia-Kaffeebäumen im Walde bei Monrovia, ± 20 m ü. M., 7 Mai 1906', *M.J. Dinklage 1909a* (not located); 'Togoland: Epiphytisch auf Elais im Fettischwald bei Agone Tongbe, unweit Misahöhe, 28 Mai 1894', *E. Baumann 286* (P00483401!, P00483402!, syn.).

Chromosome number: n = ± 120 (Manton 1959: 78).

Distribution: Angola, Annobon, Bioko, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Gabon, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Togo, Uganda.

**Vittaria guineensis** *Desv*. var. **camerooniana** *Schelpe* in Contributions from the Bolus Herbarium 1: 23 (17 Dec. 1969b).
Type: Cameroon Mts., Mann's Spring below Liwonge, 31.iii.1938', *P. Richards 4312* (K, holo.).

Distribution: Bioko, Cameroon.

**Vittaria guineensis** *Desv*. var. **orientalis** *Hieron*. in Botanische Jahrbücher 53: 426, 427 (1915).
Type: 'Deutsch-Ostafrika: Epiphyt im Urwald auf alten gefallen Baumstämmen be Shaguin, unweit Station Mbaramu, 15 März 1983', *C.H.E.W. Holtz 2482* (B, syn., K000435581!, isosyn.); 'im Bulua-Urwald, ± 1 030 m ü. M., bei der Station Gonja, 3 Sept. 1893', *C.H.E.W. Holst 2454* (B, syn., K000435582!, isosyn.); 'auf einem hohen Baum zwischen Moos im immergrünnen Regenwald, 930 m ü. M., bei

Amani, 15 Sept. 1902', *A. Engler 578* (B, syn.); 'im Hochwald auf der Insel Kwidjiwi in Kiwu-See, ± 1 600 m ü. M, 19 Sept. 1907', *G.W.J. Mildbraed 1236* (B, syn.).

*V. guineensis* sensu Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 81 (Jun. 1895), non Desv. (1811: 325), s. str.

*V. loricea* sensu Peter in Feddes Repertorium, Beiheft 40,1: 50 (1929), p.p. (Verdcourt 1999: 6), non Fée (1852: 14).

Distribution: Burundi, Cameroon, Congo, DRC, Ethiopia, Kenya, Liberia, Malawi, Mozambique, Rwanda, São Tomé, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Vittaria humblotii** *Hieron.* in Botanische Jahrbücher 53: 427, 428 (1915).
Type: 'Comoren-Inseln: An nicht genauer angegebenen Fundorte', *L. Humblot 1526* (P00149188, holo.; P00149187, P00149189!, P00149190, iso.).

Distribution: Comoro Isl. (Anjouan), Madagascar.

**Vittaria isoetifolia** *Bory*, Voyage dans les quatre principales îles des mers d'Afrique 2: 325 (Sep. 1804b).
Type: "Habitat in insulae Borboniae arboribus", *J.B.G.M. Bory de St.-Vincent s.n.* (P00483407!, holo.; B-W 20026!, iso.).

*Oetosis isoetifolia* (Bory) Greene in Pittonia 4: 106 (2 Jan. 1900).

*V. gueinzii* Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 2, 2: 167 (1851).
Type: 'Port-Natal', *W. Gueinzius s.n.* (GE?, holo.; K, S, iso.).

*V. sarmentosa* Ruiz. ex Fée, Mémoires sur la famille des fougères 3: 17 (1845b).
Type: 'Habitat in promontorio Bonae Spei ad arbores', *J.L.L. Mund & L. Maire s.n.* (K, S, syn.); Sine loc., *J.F. Drège s.n.* (BM, K, syn.); 'In Porto natali', *W. Gueinzius s.n.* (K, S, syn.).

*V. tenera* Fée, Mémoires sur la famille des fougères 3: 17, fig. 2, t. 1 (1845b).
Type: 'Habitat in Port natali (Afric. austr.)', *W. Gueinzius s.n.* (K, holo.; S, W!, iso.).

*V. longidentata* Müll.Berol. in Botanische Zeitung (Berlin) 12,31: 546, t. 13, fig. 2 (4 Aug. 1854).
Type: 'Promontorium bonae spei', *W. Gueinzius s.n.* (not located).

*Pteropsis angustifolia* sensu Pappe & Rawson, Synopsis filicum Africae australis: 43 (Jan.–Jul. 1858) non Desv. (1827: 218).

*V. lineata* sensu Sim, The ferns of South Africa: 216, t. CXXIX, fig. 1 (1892).

Distribution: Comoro Isl., Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, South Africa, Swaziland, Tanzania, Zimbabwe.

**Vittaria owariensis** *Fée*, Mémoires sur la famille des fougères 3: 21, t. 3, fig. 2 (1845b).
Type: 'Habitat in regno Owariensi', *A.M.F.J. Palisot de Beauvois s.n.* (P00483408, ?iso.).

*Haplopteris owariensis* (Fée) E.H.Crane in Systematic Botany 22,3: 514 (1997).

Distribution: Congo, Gabon, Ghana, Liberia, Nigeria, Príncipe, São Tomé.

**Vittaria reekmansii** *Pic.Serm.* in Webbia 32,1: 73 (1977c).
Type: 'Burundi: Muramvya. Teza. Forêt d'altitude, 2 400 m Fougère épiphyte. Spores bilateralis. 8.I.1972', *M. Reekmans 1368* (FI-PS 27830, holo.; EA, iso.).

Distribution: Burundi, DRC, Rwanda.

**Vittaria schaeferi** *Hieron.* in Botanische Jahrbücher 53: 430, 431 (1915).
Type: 'Kamerun: Im Manenguba-Gebirge bei Bare an Felsen in 1 900 m. ü. M., November 1910', *H. Schäfer 77* (P00483409!, iso.).

Distribution: Cameroon, Equatorial Guinea.

**Vittaria schliebenii** *Reimers* in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 924, 925 (1 Aug. 1933).
Type: 'Uluguru-Gebirge: NW, Bondua, ± 2 060 m, Nebelwald, an Bäumen, 24 Nov. 1932', *H.J. Schlieben 3017* (B, holo.; P00518706!, iso.).

*V. volkensii* Hieron. var. *schliebenii* (Reimers) Schelpe in Contributions from the Bolus Herbarium 1: 24 (17 Dec. 1969b).

*V. guineensis* Desv. var. *orientalis* sensu Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6: 150 (1935), non Hieron. (1915: 423).

Distribution: Tanzania.

**Vittaria scolopendrina** *(Bory) Thwaites*, Enumeratio plantarum zeylaniae 5: 381 (Dec. 1864).

*Pteris scolopendrina* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 323 (Sep. 1804b).
Type: "des forêts de Mascareigne", *J.B.G.M. Bory de St.-Vincent s.n.* (P00483410!, P00483411, holo.).

*Haplopteris scolopendrina* (Bory) C.Presl, Tentamen pteridographiae: 141 (Oct. 1836).

*V. latipes* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 11, t. 31, fig. 3 (1866a).
Type: 'Habitat in insula Madagascariensi, 1853', *L.H. Boivin 1590* (not located).

*V. scolopendrina* (Bory) Thwaites var. *latipes* (Fée) Kuhn, Filices africanae: 56 (Oct. 1868).

Distribution: Madagascar, Réunion, Seychelles.

**Vittaria vittarioides** *(Thouars) C.Chr.*, Index filicum: 655 (20 Aug. 1906).

*Pteris vittarioides* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 31, pl. 1 (Oct. 1808).
Type: Erroneously given as 'Au Cap et à l'Isle-de-France', *L.-M.A. du Petit-Thouars s.n.* (P00483413!, holo.).

*V. stricta* Carmich. in Transactions of the Linnean Society of London 12: 513 (1818).
Type: Tristan da Cunha. 'Grows in the woods', *D. Carmichael s.n.* (BM, holo.).

*V. revoluta* sensu Kuhn, Filices africanae: 56 (Oct. 1868).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

See Plate 4C.

**Vittaria volkensii** *Hieron.* in Botanische Jahrbücher 53: 428–430 (1915).
Type: 'Deutsch-Ostafrika: In der Landshaft Marangu am Kilimandscharo, im Gürtelwald bei 2 000 m ü. M., 2 Mai 1894', *G.L.A. Volkens 2256* (B, lecto.), designated by Verdcourt

(1999: 3); (K, P00483414!, iso.); 'an den südlichen Abhängen des Rungwe-Gebirgsstockes im Walde bei 1 900 m ü. M., 14 Aug. 1899', *W. Goetze 1168* (B, syn.).

*Haplopteris volkensii* (Hieron.) E.H.Crane in Systematic Botany 22,3: 514 (1997).

Distribution: Congo, Ethiopia, Kenya, Malawi, Mozambique, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Vittaria zosterifolia** *Willd*., Species plantarum, edn 4, 5,1: 406 (25–27 Jun. 1810), as '*zosteraefolia*'. Type: 'Habitat in insulae Borboniae truncis arborum vetustis', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20029-01 0, holo.; P00483415!, iso.).

*Haplopteris zosterifolia* (Willd.) E.H.Crane in Systematic Botany 22,3: 514 (1997).

*V. angustifrons* Michx., Flora boreali-americana 2: 261 (19 Mar. 1803).
Type: 'In Florida, juxta amnem Aïsa-hatcha', *Michaux s.n*. (P, holo.).

Distribution: Comoro Isl. (Anjouan, Mayotte), Madagascar, Mauritius, Réunion, Seychelles.

## ASPLENIACEAE

**Aspleniaceae** *Newman*, A history of British ferns: 6 (1–5 Feb. 1840). Type: *Asplenium* L.
Note: the family name is discussed by Pichi Sermolli (1970b: 230; 1993: 133), and is mostly given as: Aspleniaceae Mett. ex A.B.Frank in Synopsis der Pflanzenkunde, edn 2, 3: 1453, 1465 (1877).

*Polypodiaceae* Bercht. & J.Presl subfam. *Asplenioideae* C.Chr. in Manual of pteridology: 541 (3 Apr. 1938), nom. nud. [McNeill *et al.* (2006) Art. 36.1]. Type: *Asplenium* L.

*Aspidiaceae* Mett. & A.B.Frank subfam. *Asplenioideae* (C.Chr.) Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), nom. nud. [McNeill *et al.* (2006) Art. 41.1(b)].

### ASPLENIUM

**Asplenium** *L*., Species plantarum 2: 1078 (1 May 1753). Lectotype: *Asplenium marinum* L., designated by Smith (1875: 316).

*Caenopteris* P.J.Bergius in Acta Academiae Scientiarum Imperialis Petropolitanae 6,2: 249 (1786). Type: *Caenopetris rutifolia* P.J.Bergius (= *Asplenium rutifolium* (P.J.Bergius) Kunze).

*Ceterach* Willd., Anleitung zum Selbststudium der Botanik: 578 (1804a), nom. cons. Type: *Asplenium ceterach* L.

*Asplenium* L. subgen. *Ceterach* (Willd.) Vida ex Bir, Fraser-Jenk. & Lovis in Fern Gazette 13,1: 61 (1985).

*Antigramma* C.Presl, Tentamen pteridographiae: 120 (Oct. 1836). Type: *Antigramma repanda* (C.Presl) C.Presl; *Scolopendrium repandum* C.Presl (now *Asplenium brasiliense* Sw.).

*Tarachia* C.Presl, Epimeliae botanicae: 74, 75 (1851). Type: *Tarachia furcata* (Thunb.) C.Presl; *Asplenium furcatum* Thunb., now *Asplenium aethiopicum* (Burm.f.) Bech.

*Loxoscaphe* T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 227 (1853a). Lectotype: *Loxoscaphe concinna* (Schrad.) T.Moore; *Davallia concinna* Schrad., now *Asplenium theciferum* (Humb., Bonpl. & Kunth) Mett.

*Hymenasplenium* Hayata in The Botanical Magazine (Tokyo) 41: 712 (Dec. 1927). Type: *Hymenasplenium unilaterale* (Lam.) Hayata; now *Asplenium unilaterale* Lam.

*Asplenium* L. subgen. *Hymenasplenium* (Hayata) K.Iwats. in Acta Phytotaxonomica et Geobotanica 27,1/2: 44 (1975).

*Asplenium* L. sect. *Hymenasplenium* (Hayata) Bir in Indian Fern Journal 15: 220 (1998).

*Chamaefilix* Hill ex Farw. in The American Midland Naturalist 12,8: 233–311 (Mar. 1931). Type: *Chamaefilix adiantum-nigrum* (L.) Farw.; *Asplenium adiantum-nigrum* L.

*Asplenium* L. ser. *Variantia* Ching & S.H.Wu in Bulletin of Botanical Research Harbin 9,2: 80 (1989). Type: *Asplenium varians* Wall. ex Hook. & Grev.

*Asplenium* L. sect. *Euasplenium* § *Composita* Diels in Die natürlichen Pflanzenfamilien 1,4: 239 (Oct. 1899b). Type: *Asplenium ruta-muraria* L.

*Asplenium* L. sect. *Composita* (Diels) Fomin ex Schmakov ser. *Composita* in Turczaninowia 4,1/2: 54 (2001). Type: *Asplenium ruta-muraria* L.

*Asplenium* L. sect. *Composita* (Diels) Fomin ex Schmakov in Turczaninowia 4,1/2: 54 (2001).

**Asplenium abyssinicum** *Fée*, Cinquième mémoires sur la famille des fougères 5: 199 (1852).
Type: 'Habitat in Abyssiniâ, locis umbrosis mediae regionis montis Silkae', *A.F.W. Schimper 679* (B20 0009943!, holo.; K000423904!, K000423905!, iso.).

*A. cicutarium* Sw. var. *abyssinicum* (Fée) Hook. in Hook. & Baker, Synopsis filicum 6: 220 (8 Jul. 1867d).

*A. gracillimum* Kuhn in Über die Hochgebirsflora des tropischen Afrika 2: 103, 104 (1 Mar. 1892), non Colenso (1890: 453).
Type: 'Massaihochland, Likipia un 1 300–2 000 m', *R.F.X.R. von Höhnel 52* (B20 0016575!, syn.); "Am Kilimandscharo, 2 500 m, Aug. 1887", *H. Meyer 276* (B20 0016573!, B20 0016574!, syn.).

*A. kuhnianum* C.Chr., Index filicum: 117 (1 Jul. 1905), nom. nov. for *Asplenium gracillimum* Kuhn (1892: 103, 104), non Colenso (1890: 453).
Type: As for *Asplenium gracillimum* Kuhn.

*A. ducis-aprutii* Pirotta in Annali di Botanica. Genoa 7: 173, 174 (1908).
Type: 'Vallé Mobuku', *R. Pirotta s.n.* (P00477893!, holo.).

*A. cicutarium* sensu Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 83 (1895), non Sw. (1788: 130).

*A. tenuifolium* sensu Peter in Feddes Repertorium, Beiheft 40,1: 80 (1929), non D.Don (1825: 8).

Distribution: Bioko, Burundi, Cameroon, Ethiopia, Kenya, Rwanda, Sudan, Tanzania, Uganda.

**Asplenium actiniopteroides** *Peter* in Feddes Repertorium, Beiheft 40,1: 79, Anhang: 7, 8 (1929).
Type: 'DOAfr., Kilimandscharo: Petershütte—Bismarckhütte 3600 unter Felsen', *A. Peter 1084* (B20 0009956!, lecto.), notula in B; (GOET, K000424001!, isolecto.).

*A. goetzei* Hieron. var. *major* Hieron. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 19 (Dec. 1910).
Type: 'Vulkan-Gebiet: Ninagongo, Region der subalpinen Stäucher Zwischen Lavablöcken. Okt. 1907', *G.W.J. Mildbraed 1404* (B20 0015724!, syn.); 'Karisimbi, an schattigen Stellen, 3 300 m ü. M. Nov. 1907', *G.W.J. Mildbraed 1590* (B20 0056654!, lecto.), designated by Pichi Sermolli (1983b: 134).

*A. majus* (Hieron.) Pic.Serm. in Webbia 37,1: 134 (1983b).

Distribution: DRC, Kenya, Madagascar, Rwanda, Tanzania, Uganda.

**Asplenium adamsii** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 7, 8 (1956a).
Type: 'British Cameroons: on wall of shrub-filled erosion gulley, 9000 ft., Cameroons Mt.', *C.D. Adams 1278* (BM, holo.).

Distribution: Cameroon, Kenya, Tanzania.

**Asplenium adiantum-nigrum** *L.*, Species plantarum 2: 1081 (1 May 1753), var. **adiantum-nigrum**.
Provenance: 'Habitat in Europa australiore'.
Lectotype: '*Dryopteris nigra*' in Dodoens, Stirpium historiae pemptades sex sive libri, edn 2, icon on page 466 (1616), designated by Fernandes (1983: 64).

Note: Hedberg (1957: 28) noted the existence of LINN 1250.19 (LINN), but it was not treated as the type.

*Tarachia adiantum-nigrum* (L.) C.Presl, Epimeliae botanicae: 82 (1851).

*Chamaefilix adiantum-nigrum* (L.) Farw. in The American Midland Naturalist 12,8: 273 (Mar. 1931).

*A. lucidum* Burm.f., Flora indica, Prodromus flora capensis: 28 (1 Mar.–6 Apr. 1768b).
Type: Cape, ?*P. Hermann s.n.* ex Herb. Burmann (G!, lecto.), designated by Roux (1994b: 642).

*A. obtusum* Kit. ex Willd., Species plantarum, edn 4, 5,1: 341, 342 (1810).
Type: 'Habitat in rupibus subalpinus Croatiae', *sine coll. s.n.* (not located).

*A. adiantum-nigrum* L. var. *obtusum* (Kit. ex Willd.) Hook. & Baker, Synopsis filicum, edn 2: 214 (Oct. 1874).

*A. tabulare* Schrad. in Göttingische Gelehrte Anzeigen 1818: 916, 917 (1818).
Type: Cape, *C.H.F. Hesse s.n.* (LE, holo.).

*A. argutum* Kaulf., Enumeratio filicum: 176 (Oct. 1824).
Type: "Cap. bon. spei", *F.W. Sieber s.n.* (HAL81725, holo.), (Braun 1998: 16).

*A. adiantum-nigrum* L. var. *lancifolium* (Moench) Heufl. in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 6: 310 (1856).

*A. rawsonii* Baker in Journal of Botany, British and Foreign 10: 362 (1872).
Type: 'In the crevices of rocks at the summit of the Muzenberg Mountain, in March, 1857', *R.W. Rawson s.n.* (K000423969!, K000423970!, holo.).

*A. marlothii* Hieron. in Botanische Jahrbücher 46,3: 357, 358 (1911).
Type: 'Britisch Betschuanaland: an schattigen steinigen Orten bei Kuruman, 1 290 m ü. M., Februar 1886', *R. Marloth 1095* (B20 0056662!, holo.; P00482979!, PRE0710873, iso.).

*A. yuanum* Ching in Bulletin of the Fan Memorial Institute of Biology 10,3: 174 (1940c).
Type: 'China, Yunnan: Tehching, (Atuntze) Kaa-ker-pu, 2 800 m alt., in ravine, June 4, 1937', *T.T. Tü 8461* (PE, holo.).

*A. adiantum-nigrum* L. subsp. *yuanum* (Ching) Reichst., Viane, Rasbach & Schneller in Candollea 49,1: 284 (1994).

*A. adiantum-nigrum* L. subsp. *onopteris* Heufl. var. *acutum* (Bory) Heufl. f. *deltoideum* Maire in Encyclopédie Biologique 33: 56 (1952).
Type: 'A. Gorges de Keddara', *L.C. Trabut s.n.* (not located); 'Gorges de la Chiffa', *Batandier s.n.* (not located).

Chromosome number: n = 72 (Manton 1959: 80); sexual tetraploid, n = 72 (Shivas 1969: 68).

Distribution: Algeria, Cameroon, Cape Verde Isl. (Fogo), Chad, DRC, Egypt, Ethiopia, Kenya, Lesotho, Libya, Morocco, Réunion, South Africa, Tanzania, Tunisia.

Notes: Reichstein *et al.* (1994) ascribed Ethiopian and Réunion material to *Asplenium adiantum-nigrum* subsp. *yuanum*, but my study on material from these regions does not support this view. It is also reported to have the same chromosome number as the typical variety.

**Asplenium adiantum-nigrum** *L.* var. **solidum** *(Kunze) J.P.Roux*, Cape Peninsula ferns: 45, fig. 19, t. 3a, b (Aug. 1979).

*A. solidum* Kunze in Linnaea 10: 520 (1836).
Note: Kunze recognised two varieties, *platyphylla* and *stenophylla*, under *A. solidum* not indicating which is the typical variety. Roux (1986: 362) designated the Forbes collection listed under var. *stenophylla* as lectotype of the taxon.

*Tarachia solida* (Kunze) C.Presl, Epimeliae botanicae: 80 (1851).

*A. solidum* Kunze var. *α platyphylla* Kunze in Linnaea 10: 520 (1836).
Type: 'E pr. b. sp.', *C.F. Ecklon s.n.* (not located).

*A. solidum* Kunze var. *β stenophylla* Kunze in Linnaea 10: 520 (1836).
Type: "Ad sinum Algoa Africae Australis", *A.L.S. Forbes s.n.* (G!, lecto.), designated by Roux (1986: 362); "Locis montanis prope Ruigtevlei in virgultis", *J.F. Drège s.n.* (B20 0022970!, BM!, K!, syn.).

Distribution: South Africa.

**Asplenium aequabile** *Baker* in Synopsis filicum, edn 2: 485 (Oct. 1874a).
Type: "Diego Garcia", *A.M. Barkly s.n.* (K!, holo.).

Distribution: Diego Garcia.

**Asplenium aequibasis** *(C.Chr.) J.P.Roux* in Kew Bulletin 48,1: 81, figs 2A, B, 3A, B (1993c).

*A. erectum* Bory var. *aequibasis* C.Chr. in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 14, fig. 1c–e (1940).
Type: 'Nightingale, below peak, alt. 275, between rocks', *E. Christophersen 2181* (O!, holo.; BM!, BOL!, iso.).

*A. insulare* sensu J.P.Roux in Journal of South African Botany 47,2: 143 (1981), non Carmich. (1818: 512).

Distribution: Gough Isl., Nightingale Isl.

**Asplenium aethiopicum** *(Burm.f.) Bech.* in Candollea 6: 22 (Apr. 1935), subsp. **aethiopicum**.

*Trichomanes aethiopicum* Burm.f., Flora indica: 28 (1 Mar.–6 Apr. 1768b).
Type: Cape, *J. Burmann s.n.*, coll. 248 (G!, holo.).

*A. adiantoides* Lam., Encyclopédie méthodique. Botanique 2,1: 309 (16 Oct. 1786), non (L.) C.Chr. (1905: 99).
Type: 'Cap de Bonne-Espérance', *P. Sonnerat s.n.* (P, syn.); 'l'Isle de France', *P. Commerson s.n.* (P, syn.).

*A. falsum* Retz. in Observationes Botanicae 6: 38 (1791).
Type: 'Habitat in Africa, ad Bay Falso', *sine coll. s.n.* (not located).

*A. furcatum* Thunb., Prodromus plantarum capensium: 172 (1800).
Type: 'e Cap b. Spei', *C.P. Thunberg s.n.* (UPS-Thunb 24806B!, lecto.), designated by Schelpe & Anthony (1986: 205).

*A. furcatum* Thunb. var. *latifolium* (Bolle) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 74 (1 Oct.–5 Nov. 1867).

*A. furcatum* L. f. *platyphyllum* Kunze in Linnaea 10: 519 (1836), as '*platyphylla*', nom. nud. [McNeill *et al.* (2006) Art. 34.1(a)].
Type: "Paarlberg", *J.F. Drège s.n.* (B20 0015236!, lecto.), here designated; (B20 0015236!, isolecto.).

*A. vinsoii* Cordem., Flore de l'Ile de la Réunion: 68 (1895).
Type: "Ile Bourbon" *H.J. de Cordemoy 137* (P00483025!, holo.), as '*Vonsoni*'.

*A. adiantoides* (L.) C.Chr. var. *canariensis* (Willd.) Cout. in Arquivos da Universidade de Lisboa 1: 268 (1914).

*A. praemorsum* Sw. var. *angustitripinnatum* Bonap. in Notes Ptéridologiques 7: 328, 329 (14 Oct. 1918f).
Type: 'Orange. Versant Nord du Mont aux Sources. Région de Witsieshoek. Environ 1 800 mètres d'altitude. Rochers humides. Janvier-Février 1917', *M.A. Junod*, Série 1, no. 3 (P00477798!, holo.; P00477797!, iso.).

*A. aemilii-guineae* Alston in Boletín de la Sociedad Española de Historia Natural 49,1/3: 194, 196, fig. 1 (1951).
Type: 'Moka, Ascensión al Pico Serrano, 25-I-1947', *sine coll. 1950* (BM, holo.).

*A. canariense* sensu Webb in Niger Flora: 194 (Oct. 1849), non *Asplenium canariense* Willd. (1810: 339).

*A. furcatum* Thunb. var. *canariense* sensu Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 74 (1 Oct.–5 Nov. 1867).

*A. furcatum* sensu Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 74 (1 Oct.–5 Nov. 1867).

*A. praemorsum* sensu Sim, The ferns of South Africa, edn 2: 163, pl. 65 (1915).

*A. praemorsum* sensu A.Chev. in Revue de Botanique Appliquée et d'Agriculture Tropicale 15,170/171: 324 (1935), non *Asplenium praemorsum* Sw. (1788: 130).

Distribution: Bioko, Burundi, Cameroon, Central African Republic, Congo, Djibouti, DRC, Ethiopia, Equatorial Guinea, Gabon, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, Sierra Leone, Socotra, Somalia, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Asplenium aethiopicum** *(Burm.f.) Bech.* subsp. **dodecaploideum** *A.F.Braithw.* in Botanical Journal of the Linnean Society 93,4: 360, figs 1G–I, 8 (1986).
Type: 'South Africa, Transvaal, Pilgrims Rest Div., New Chum Falls ± 15 miles E of Pilgrims Rest, on south-facing rocks on river bank, ± 5500 ft, 26 xii 1960', *A.F. Braithwaite 128* (K000423963!, holo.).

*A. aethiopicum* (Burm.f.) Bech. subsp. *braithwaitii* Ormonde in Boletim do Museu Municipal do Funchal 43,233: 178 (1991).
Type: 'Insula Madeira, "Lombo de Cima, estrada Ribeiro Frio–Faial", 30.VII.1986', *F.E.M. Ormunde s.n.* (COI, holo.; AZU, B, BM, ELVE, FR, G, LISE, LISU, M, MA, MADJ, MADM, O, P, PO, iso.).

Chromosome number: n = 216 (Braithwaite 1986: 360; Ormonde 1991: 178).

Distribution: Angola, Cape Verde Isl (Fogo, Santiago, Sto. Antão, S. Nicolau, S. Vicente), Lesotho, South Africa, Zambia, Zimbabwe.

**Asplenium aethiopicum** *(Burm.f.) Bech.* subsp. **filare** *(Forssk.) A.F.Braith*. in Botanical Journal of the Linnean Society 93,4: 362 (1986).

*Acrostichum filare* Forssk., Flora aegyptico-arabica: 184 (1 Oct. 1775).
Type: 'Yemen in Sylvis montosis', *P. Forsskål s.n.* (BM, holo.).

*Chamaefilix filaris* (Forssk.) Farw. in The American Midland Naturalist 12,8: 274 (Mar. 1931).

*Asplenium filare* (Forssk.) Alston in Journal of Botany, British and Foreign 72,861, Supplement: 4 (1934a).

*Asplenium canariense* Willd., Species plantarum, edn 4, 5,1: 339, 340 (25–27 Jun. 1810).
Type: "Teneriffe", *P.M.A. Broussonet s.n.* (B-W 19923-01 0, holo.).

*Asplenium filare* (Forssk.) Alston subsp. *canariense* (Willd.) Ormonde in Boletim do Museu Municipal do Funchal 43,233: 180 (1991).

Cytology: Apogamous.

Distribution: Angola, Eritrea, Ethiopia, Guinea, Kenya, Lesotho, Somalia, South Africa, Sudan, Swaziland, Uganda, Zambia, Zimbabwe.

Note: **Asplenium aethiopicum** *(Burm.f.) Bech.* subsp. **filare** *(Forssk.) A.F.Braith*.

apomict **pseudofilare**: 2n = 288, in Lesotho, South Africa and Swaziland (Braithwaite 1986: 363).

apomict **transvaalense**: 2n = 288, in South Africa (Braithwaite 1986: 365).

apomict **capense**: 2n = 360, in South Africa (Braithwaite 1986: 367).

**Asplenium aethiopicum** *(Burm.f.) Bech.* subsp. **tripinnatum** *(Baker) A.F.Braithw.* in Botanical Journal of the Linnean Society 93,4: 355 (1986).

*A. furcatum* Thunb. var. *tripinnatum* Baker in Synopsis filicum, edn 2: 487 (Oct. 1874a).
Type: 'Natal', *M.J. McKen* [28] (K000423958!, lecto.), designated by Panigrahi (1975: 257).

*A. tripinnatum* (Baker) Panigrahi in Proceedings of the National Institute of Sciences of India, B 29,4: 394, figs 1(a), 2 (a, d, g, j), fig. 4, t. II (1963), nom. illeg. [McNeill *et al.* (2006) Art. 9.1], non Roxb. (1844: 500).

*A. tetraploideum* Panigrahi in *Phytologia* 31,3: 257 (1975), nom. nov. for *A. tripinnatum* (Baker) Panigrahi (1963: 394), nom. illeg., non Roxb. (1844: 500).

*A. praemorsum* Sw. var. *tripinnatum* sensu Sim, The ferns of South Africa, edn 2: 164, pl. 66 (1915).

Chromosome number: n = 72 (Braithwaite 1986: 357).

Distribution: Mozambique, South Africa, Swaziland, Zimbabwe.

**Asplenium affine** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 56 (1801), var. **affine**.
Type: 'Insula Mauritii', *C.F. Gröndahl s.n.* (S, holo.).

*Darea obtusa* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 323 (1811).
Type: 'Habitat in insula Mauritii', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483026!, holo.).

*A. obtusum* (Desv.) Kuhn, Filices africanae: 109 (Oct. 1868), non *Asplenium obtusum* Willd. (1810: 341).

Distribution: Madagascar, Rodrigues Isl.

**Asplenium affine** *Sw.* var. **gilpinae** (*Baker) Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, biologie végétale 7: 48 (1956i).

*A. gilpinae* Baker in Journal of the Linnean Society, Botany 16: 200 (1877a).
Type: 'Madagascar, Antananarivo', *H. Gilpin s.n.* (K000423986!, holo.).

Distribution: Madagascar.

**Asplenium affine** *Sw.* f. **major** *Sledge* in Kew Bulletin 15,3: 408 (19 Mar. 1962).
Type: 'Mauritius', *F.W Sieber 71* (K000423981, holo.).

*A. cuneatum* Lam. var. *affine* sensu Baker, Flora of Mauritius and the Seychelles: 489 (2 Aug. 1877b).

Distribution: Mauritius.

**Asplenium affine** *Sw.* var. **mettenii** *(Kuhn) Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, biologie végétale 7: 48 (1956i).

*A. mettenii* Kuhn, Filices africanae: 20 (Oct. 1868).
Type: 'Africa orientalis tropica: prope Mombas, exeunte Januario 1865', *O. Kersten 29* (B20 0018075, holo.).

*A. pygmaeum* Hook., Species filicum 3,10/12: 147, pl. 180B (Nov. 1859–Apr. 1860).
Type: 'Madagascar', *R. Lyall s.n.* (not located).

*A. lavanchiei* Bonap. in Notes Ptéridologiques 4: 22, 23 (19 May 1917a).
Type: 'Iles Comores. Anjouan', *M. Lavanchie s.n.* (P00216909!, P00216910!, P00216911!, holo.).

*A. lavanchiei* Bonap. var. *elongatum* Bonap. in Notes Ptéridologiques 4: 23, 24 (19 May 1917a).
Type: 'Iles Comores. Environs de Nioumbadjou; de 400 à 500 mètres d'altitude, Avril 1911', *L. Humblot 210* (P00327785!, syn.; K, isosyn.); 'Îles Comores', *L. Humblot 318* (P, syn.; K, isosyn.).

*A. affine* Sw. var. *gilpinae* (Baker) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, biologie végétale 7: 48, pl. III (1956i).

*A. affine* Sw. f. *tenuisectum* Sledge in Bulletin of the British Museum (Natural History), Botany 3,6: 270, 271 (1965).
Type: 'Ceylon', *C.P. Thwaites 3801*, p.p. (PDA, holo.).

*A. furcatum* sensu Balf.f. in Philosophical Transactions of the Royal Society of London 168: 387 (1879), non Thunb. (1800: 172).

Distribution: Comoro Isl. (Anjouan, Grande Comore), Madagascar, Rodriques Isl., Seychelles.

**Asplenium affine** *Sw.* var. **pecten** *Baker* in Journal of the Linnean Society, Botany 16: 199, 200 (1877a).

*A. gilpinae* Baker var. *pecten* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 39 (Feb. 1932a).

*A. affine* Sw. var. *tanalense* Baker in Journal of Botany, British and Foreign 1880,9: 329 (1880b).
Type: Madagascar. 'Tanala', *L. Kitching s.n.* (K?, holo.).

*A. lineatum* Sw. subsp. *supra-auritum* C.Chr. in Arkiv för Botanik 14,19: 7, pl. 2 (24 Mar. 1916).
Type: 'Madagascaria: Moramanga, 18.10.1912', *K.R. Afzelius & B.T. Palm 476* (BM!, holo.).

*A. acutipinnatum* Bonap. in Notes Ptéridologiques 4: 69, 70 (19 May 1917b), as '*acutipinnata*'.
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analamozoatra, 800 mètres d'altitude. Sur les vieux troncs. Janvier', *H. Perrier de la Bâthie 7509* (P00482954!, holo.; BM, P00482953!, iso.).

*A. simillimum* Kuhn ex Hieron. in Hedwigia 60,5/6: 213, 214 (1919).
Type: 'Zentral-Madagascar: Im Urwalde bei Andrangolóaka in Ost-Imerina, November 1880', *J.M. Hildebrandt 3773* (?B, BM!, P00482912!, P00482913!, syn.); 'Im Walde von Ankeramduuka', *G.F. Scott-Elliot 1888* (?B, syn.).

Distribution: Madagascar.

**Asplenium africanum** *Desv.* in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 322 (1811).
Type: 'Habitat in rego Owariense Africes', *A.M.F.J. Palisot de Beauvois s.n.* (P00064991, holo.).

*A. sinuatum* P.Beauv., Flore d'Oware et de Bénin 2,14: 33, 34, pl. LXXIX, figs I–V (26 Aug. 1816).
Type: 'Dans le royaume d'Oware', *sine coll. s.n.* (not located).

*A. guineense* Schumach., Beskrivels af Guineeiske planter: 458 (1827), prepr. from in Det Kongelige Danske Videnskabernes Selskabs Naturvidenskabelige og Mathematiske Afhandlinger 4: 232, t. 61 (1829).
Type: 'Aquapim', *P. Thonning s.n.* (C, holo.).

*A. venosum* Hook., Species filicum 3,10/12: 83, 84 (Nov. 1859–Apr. 1860).
Type: 'South tropical Western Africa, near Elephant's Bay', *A.B. Curror s.n.* (not located).

*A. serratum* sensu Bonap. in Notes Ptéridologiques 1: 56 (14 Jul. 1915a), non L. (1753: 1079).

Chromosome number: n = 72 (Manton 1959: 79).

Distribution: Angola, Annobon, Benin, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Niger, Nigeria, Príncipe, São Tomé, Sierra Leone, Tanzania, Uganda.

**Asplenium afzelii** *H.Rosend.* in Arkiv för Botanik 14,18: 3, t. 2, figs 3, 4 (1916).
Type: 'Madagascar: Moramanga, 3/10/1912', *K.R. Afzelius et B.T. Palm 395* (BM!, holo.).

Distribution: Madagascar.

**Asplenium akimense** *C.D.Adams* in Annals and Magazine of Natural History, ser. 12, 7: 873, pl. 29 (1954).
Type: 'Gold Coast: Colony: Eastern Province; Birim District; Akim; Puso Puso ravine, Atewa Range, ± 350 m., 24 October 1953', *Cudjoe GC3829* (BM, holo.; GC, K!, P00522516!, iso.).
Note: Kunkel (1969a: 136) suggests that the species is a hybrid.
Chromosome number: 2n = 144 (Manton 1959: 79).
Distribution: Ghana, Liberia.

**Asplenium albersii** *Hieron.* in Botanische Jahrbücher 46,3: 380, 381 (1911).
Type: 'Deutsch-Ostafrika: auf dem Erdboden und an Baumstämmen des Urwaldes bei Kwai, 1 600–2 000 m hoch ü. M., (November 1899)', *E. Albers 289* (B20 0011246!, lecto.), notula, Pichi Sermolli, 26/11/1974; (P00482914, isolecto.); 'auf dem Gomba-Berge bei Kwai in 1 700 m Höhe ü. M., (29 Dez. 1895)' *J. Buchwald 295* (B20 0011247!, syn.); 'bei Lutindi, 1902', *G. Liebusch s.n.* (B20 0011245!, syn.).

Distribution: Kenya, Malawi, Tanzania.

**Asplenium alvarezense** *R.N.R.Br.* in Journal of the Linnean Society, Botany 37: 247, 248 fig. c. (1905).
Type: Gough Island, *R.N.R. Brown s.n.* (E, holo.; BM!, iso.).

Distribution: Gough Isl., Inaccessible Isl., Tristan da Cunha.

See Plate 4D.

**Asplenium ambohitantelense** *Rakotondr.* in Bulletin du Muséum d'Histoire Naturelle. Paris. sér. 4, 10,4: 373 (1988).
Type: 'Forêt d'Ambohitantely, 1 300–1 500 m, District d'Ankazobe, février 1984', *F. Rakotondrainibe 416* (P00134928!, holo.).

Distribution: Madagascar.

**Asplenium andapense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 234, fig. 6, t. 1–3 (1955f).
Type: Madagascar. 'Pentes occidentales du massif du Marojejy, bassin de la Lokoho, à l'Est d'Ambalamanasy II, district d'Andapa, 800 m', *H. Humbert 22074* (P00482917!, holo.).

Distribution: Madagascar.

**Asplenium angolense** *Baker* in Synopsis filicum, edn 2: 485 (Oct. 1874a).
Type: 'Angola, Cuanza Norte, Golungo Alto, pr. Sange, mata de Quibanga', *F.M.J. Welwitsch 86* (K000423999!, holo.; B20 0011322, BM, LISU, iso.).

Distribution: Angola, DRC, Kenya, ?Tanzania, ?Uganda.

**Asplenium anisophyllum** *Kunze* in Linnaea 10: 511 (1836).
Type: "Inter catarractum magnum et Omsamcaba, in valle rupestri umbrosa ad rivulum", *J.F. Drège s.n.* (B20 0011360!, lecto.), designated by Roux (1986: 359); (B20 0011362, K!, isolecto.).

*A. anisophyllum* Kunze var. *elongatum* Kunze in Linnaea 10: 512 (1836).
Type: 'Prope Philipstown ad fontes fl. Katrivier (Seded Territory Ill) in sylvis montosis Junio', *C.F. Ecklon s.n.* (LZ†).

*A. chlaenopteron* Fée, Cinquième mémoires sur la famille des fougères 5: 194, 195 (1852).
Type: 'Habitat in insulâ Borboniâ, *Oliver s.n.* (B20 0012544, holo.).

*A. anisophyllum* Kunze var. *microphyllum* Kuhn, Filices africanae: 20 (Oct. 1868), as '*microphylla*'.
Type: 'In monte Kilimandjaro regionis Dschagga 5500–7800 ped. 1864', *O. Kersten 27* (B20 0013427, syn.).

*A. geppii* Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 269, 270 (Mar. 1901).
Type: Angola. "Pungo Andongo, in umbrosis sylvae primitiscum de Mata de Pongo, 04/1857", *F.M.J. Welwitsch 97* (K000423998!, holo.; BM, iso.).

*A. subauriculatum* Hieron. in Botanische Jahrbücher 46,3: 350, 351 (1911).
Type: 'Kamerun: bei Lolodorf, 24 März 1895', *A. Staudt 180* (B20 0023212, P00482918!, syn.); 'Kongostaat: in Bergwäldern an den Arthingtonfällen, 23 Januar 1885', *O.A.R. Büttner 194* (B20 0023213, syn.).

*A. anisophyllum* Kunze var. *minutidentatum* Bonap. in Notes Ptéridologiques 4: 70 (19 May 1917b), as '*minutidentata*'.
Type: Madagascar. 'Région floristique du Centre. Haut Bemarivo. Analamahitso, 800 mètres d'altitude. basalte. Août 1907', *H. Perrier de la Bâthie 7807* (P00482915!, holo.; P00482916, iso.).

*A. anisophyllum* Kunze var. *acuminatum* C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 180 (1924).
Type: 'Mt. Aberdare orient.: in silva dense montana terrestris, ± 2 200 m (12 März 1922)', *R.E. Fries & T.C.E. Fries 2193* (?BM, holo.).

Distribution: Angola, Annobon, Bioko, Burundi, DRC, Equatorial Guinea, Ethiopia, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Réunion, São Tomé, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

**Asplenium annetii** *(Jeanp.) Alston* in Boletín de la Sociedad Española de Historia Natural 49,1/3: 193 (1951).

*Diplazium annetii* Jeanp. in Bulletin de la Société Botanique de France, sér. 4, 68: 326 (1921).
Type: Cameroon, Mangelès, *E. Annet 19* (P00482919!, holo.).

Distribution: Bioko, Cameroon, Gabon.

**Asplenium annobonense** *Viane* in Biologische Jaarboek, Dodonaea 59: 158 (25 Jun. 1992), nom. nov. for *A. annobonense* Hieron. ex Mildbr.

*A. annobonense* Hieron. ex Mildbr., Wissenschaftliche Ergebnisse der zweiten deutschen Zentral-Afrika-Expedition 1910–1911. Botanik 2: 159 (Feb.–Jun. 1922), nom. nud. [McNeill *et al.* (2006), Art. 32.1(d) & Art. 41.3].
Type: 'Annobon, Nord-Kraterrand, am Boden, sehr häufig, Nebelwald, Sept. 1911', *G.W.J. Mildbraed 6509* (B, holo.; HBG, iso.).

Distribution: Annobon.

**Asplenium apertum** *C.Chr.* in Dansk Botanisk Arkiv 7: 99, pl. 34, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Forêt d'Analamazaotra, 800 m', *H. Perrier de la Bâthie 7519* (BM!, holo.; P00482921!, P00482922!, P0048292!, iso.).

Distribution: Madagascar.

**Asplenium aureum** *Cav.*, Descripción de las plantas 1: 256 (1801a).
Type: From Tenerife, *Cavanilles s.n.* (?MA).

*Acrostichum aureum* Cav., Anales de Ciencias Naturales 4,10: 104 (1802), non L. (1753).

*Grammitis aurea* (Cav.) Sw., Synopsis filicum: 23, 215 (1806b).

*Ceterach aureum* (Cav.) Buch in Abhandlungen der Physikalischen Klasse der Königlich-Preussischen Akademie der Wissenchaften aus den Jahren 1816–1817: 361 (1819), nom. nud.

*C. aurea* (Cav.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 222 (1827).

*Asplenium ceterach* L. var. β *aureum* Hook., Species filicum 3,15/16: 274 (1859–1860).

*C. officinarum* Willd. var. *aureum* (Cav.) Menezes, Madeira ferns, translated from the Portuguese: 20 (1906).

Chromosome number: allotetraploid, 2n = 144 (Manton 1950; Vida 1972; Viane & Reichstein 1992: 162; Pintér & Vida 1993: 223, 224; Van den Heede *et al.* 2004: 108).

Distribution: Cape Verde Isl. (S. Antão, Fogo), Djibouti, Eritrea, Somalia.

Note: Lobin *et al.* (1998) note that the species has not been collected on the Cape Verde Islands recently, nor could the two collections said to have been made on the islands, located.

**Asplenium balense** *Chaerle & Viane* in Novon 17,2: 149, figs 1A–D & 2 (20 Jun. 2007).
Type: 'Ethiopia, Bale Prov.: Goba-Dola Mena rd. (over Mt. Batu), Sanetti Plateau, 21 km S of Goba, 3 870 m, 16 Jan. 1998', *R.L.L. Viane 7141* (GENT, holo.; Herb. Viane, iso.).

Chromosome number: n = 72 (Chaerle & Viane 2007: 149).

Distribution: Ethiopia.

**Asplenium barteri** *Hook.*, A second century of ferns: 2, pl. 75 [1860] (1861).
Type: 'Tropical Western Africa; Aboh, on trees', *C. Barter*, in Baikie's Niger Exped. no. 1454 (K!, holo.; B20 0011822, iso.).

*A. pteropus* Kaulf. var. *barteri* (Hook.) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 31 (Aug.–Sep. 1879).

*A. lunulatum* Sw. var. *barteri* (Hook.) Bonap. in Bulletin du Muséum d'Histoire Naturelle 13,6: 387 (1913).

*A. sherburgense* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 304 (1891a).
Type: 'Sherburg Island, Upper Guinea', *Mair s.n.* (K000423936!, holo.).

*A. barteri* Hook. var. *acuta* Hieron. in Botanische Jahrbücher 46,3: 355 (1911).
Type: 'Nigergebiet: vermutlich in der Sierra Leone', *C. Barter 531* (B20 0011834, lecto.), notula Viane, Sep. 1985; (B20 0011822, B20 0011832, isolecto.), notula Viane, Sep. 1985; 'Französisches Kongogebiet: Gabun, 1848', *D.E.S.A. Jardin 230* (B20 0011833, syn.).

*A. barteri* Hook. var. *barteri* f. *hymenophyllacea* G.Kunkel in Nova Hedwigia 17,1/4: 145 (1969a).
Type: 'Liberia. Totota Hills, 170 m, an Felsen', *G. Kunkel 6895* (F 121) (PTER, holo.).

Chromosome number: n = ± 72 (Manton 1959: 79).

Distribution: Angola, Benin, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Sudan, Tanzania, Uganda.

**Asplenium biafranum** *Alston & F.Ballard ex F.Ballard* in Hooker's Icones Plantarum, ser. 5, 4,3: pl. 3367 (Sep. 1938b).
Type: 'Fernando Po. 900 m', *G. Mann 346* (K000423937!, holo.).

Distribution: Bioko.

**Asplenium billotii** *F.W.Schultz* in Flora 28: 738 (1845).
Type: 'From sandstone rocks near Steinbach, Vosges' (Reichstein 1981: 103), *F.W. Schultz s.n.* (not located).

*A. lanceolatum* Huds., Flora anglica, edn 2, 2: 454, 455 (1778), nom. illeg.
Type: 'Habitat in muris antiquis et rupibus circa St Ives et alibi in Cornubia copiose', *sine coll. s.n.* (not located).

*A. fontanum* Bernh. var. *lanceolatum* Fiori, Nuova flora analitica d'Italia 1,1: 26 (1923).

*A. obovatum* Viv. subsp. *lanceolatum* (Fiori) P.Silva in Agronomia Lusitana 20: 217 (1959).

*A. lanceolatum* Huds. var. *obovatum* (Viv.) T.Moore, Index filicum 2,12: 140 (Jul. 1859c).

*A. lanceolatum* Huds. var. *typicum* Asch. & Graeb., Synopsis der mitteleuropäischen Flora 1,1: 61 (1 May 1896a).
Type: as for *Asplenium obovatum* subsp. *lanceolatum*.

*A. lanceolatum* Huds. var. *grandifrons* Merino in Anales de la Sociedad Española de Historia Natural 30: 169 (1901).
Type: Not located.

*A. obovatum* Viv. var. *numidicum* Trab. in Flore analytique et synoptique de l'Algérie et de la Tunisie: 403 (1905).
Type: 'Djebel Goufi, Fdoulès', *sine coll. s.n.* (not located).

Chromosome number: tetraploid, 2n = 144 (Lovis & Vida 1969: 55).

Distribution: Algeria, Libya, Morocco, Tunisia.

**Asplenium bipartitum** *Bory ex Willd.*, Species plantarum, edn 4, 5,1: 328 (25–27 Jun. 1810).
Type: "Ile Bourbon", *J.B.G.M. Bory de Saint-Vincent s.n.* (B-W 19941-01 0, holo.).

*Diplazium bipartitum* (Bory ex Willd.) C.Presl, Epimeliae botanicae: 88 (1851).

*A. mocquerysii* H.Christ in Bulletin de l'Herbier Boissier, sér. 2, 1,6: 553, 554 (1901a).
Type: Madagascar, *A. Mocquerys s.n.* (P?, holo.).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion, Seychelles.

**Asplenium blastophorum** *Hieron.* in Botanische Jahrbücher 46,3: 378, 379 (1911).
Type: 'Sudan: im nördlichen Grenzbezirk zwischen dem Lande der Niamniam und Mombuttu, (15 März 1870)', *G.A. Schweinfurth 3295* (B20 0012130, lecto.), designated by Viane, notula in Herb. B; (B20 0012131, B20 0012133, BM, K000423932!, isolecto.); 'Togo: bei Bismarckburg, 1 Aug. 1890', *O.A.R. Büttner 60* (P00477897!, syn.).

Distribution: Burundi, Guinea, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Asplenium boiteaui** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 51 (1956i).
Type: Madagascar. Sarobaratra, forêt de l'Ouest du pays Sihanaka', *P. Boiteau 2881* (P00482926!, holo.; P00482927!, iso.).

Distribution: Madagascar.

**Asplenium boltonii** *Hook. ex Brause & Hieron.* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 8 (Dec. 1910).
Type: Natal, *D. Bolton s.n.* (K, holo.; BM!, iso.).

*A. anisophyllum* Kunze var. *latifolium* Hook., Species filicum 3,10/12: 111, pl. 166 (1859–1860).
Type: based on *Asplenium anisophyllum* Kunze var. *β*.

Distribution: Bioko, DRC, Kenya, Madagascar, Malawi, Mozambique, Réunion, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium brausei** *Hieron.* in Botanische Jahrbücher 46,3: 359, 360 (1911).
Type: 'Kamerun: bei Nguli Mapindi unweit Lolodorf, 1894', *A. Staudt 330* (B20 0012259!, K000423912!, P00482929!, syn.); 'und an feuchten schattigen Orten bei Jaunde in 800–900 m Höhe ü. M., 23 Okt. 1894', *G.A. Zenker & A. Staudt 527* (B20 0012258!, lecto.), designated by Tardieu-Blot (1964a: 219); (K000423911!, P00482928!, isolecto.).

Distribution: Cameroon.

**Asplenium buettneri** *Hieron. ex Brause* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 23, 24, t. 2, fig. 2 (Dec. 1910).
Type: 'West-Afrika: Togo, bei Gbadsemme-Avatime nicht weit von Misohöhe an feuchten

Felsen, 650 m ü. M. (Juli 1893)', *E. Baumann 42* (B20 0012282, lecto.), designated by Tardieu-Blot (1964a: 215); (P00482930!, isolecto.); 'Kamerun: im Urwald bei Jaunde, ± 800 m ü. M., einheim. (März 1890)', *G.A. Zenker 212* (B20 0012283, syn.); 'Kongo: unterhalb der Insel Lome im Kongo (Nov. 1885)', *O.A.R. Büttner 584* (B20 0051649, syn.); "Uganda Protectorate: Bugaia Island", *M.T. Dawe s.n.* (B 20 0012287, K!, syn.).

*A. buettneri* Hieron. var. *hildebrandtii* Hieron. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 25 (Dec. 1910).
Type: 'Ost-Afrika: Mombassa, an Felsen der Küstenregion. April 1876', *J.M. Hildebrandt 1958* (B20 0012291, B20 0012292, B20 0012293, K!, syn.); 'bei Ribe nicht weit von Mombassa. Jan 1878.' *J.A. Grant s.n.* (B20 0012290, syn.); 'Usambara, bei Amani an schattigen Stellen der Wälder in Schluchten, 500–950 m ü. M. Sept. 1903', *Warnecke 475* (B 20 0012289, P 00482931!, syn.).

*A. parablastophorum* A.F.Braithw. in Journal of South African Botany 38,1: 5 (Jan. 1972a).
Type: 'Southern Rhodesia, Melsetter District, Chimanimani Mountains. Forest on Timbiri river, ±1 mile from Haroni. Frequent on ft. floor or occasionally as low epiphyte. 2000', 13/2/58', *D.S. Mitchell 381* (BOL, holo.; SRGH, iso.).

Chromosome number: n = ± 144 (Manton 1959: 80).

Distribution: Bioko, Burundi, Cameroon, Central African Republic, DRC, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Asplenium bugoiense** *Hieron.* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 10, 11, t. II, figs A, B (Dec. 1910).
Type: 'Bugoier-Wald südöstlich von Kissenje, häufig am Boden im Bambusmischwald ± 2 400 m ü. M. Nov. 1907', *G.W.J. Mildbraed 1460* (B20 0012299!, holo.; P00482932!, iso.).

Distribution: Ethiopia, Kenya, Rwanda, Tanzania, Uganda.

**Asplenium burundense** *Pic.Serm.* in Webbia 32,1: 78, fig. 2 (1977c).
Type: 'Burundi: Prov. di Muramvya. Foresta umida montana secondaria di Bugarama (3°14'S–29°32'E). Nella parte media e superiore della foresta, 2 100–2 200 m. Epifita a 4 m dal suolo. 19.XII.1966', *R.E.G. Pichi Sermolli 7021* (FI-PS *23566*, holo.; FI-PS *23521*, FI-PS *29785*, iso.).

Distribution: Burundi, DRC.

**Asplenium cancellatum** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 8 (1956a).
Type: 'British Cameroons: near Nyasoso, on road from Tombel, 2500 ft.', *C.A. Thorold TN13* (BM, holo.; K000423935!, iso.).

*A. petiolatum* Mett. ex Kuhn var. *subaequilaterale* Baker in Synopsis filicum, edn 2: 486 (Apr. 1874a).
Type: "Fernando Po, epiphyte 3000 ft above the sea, 1860", *G. Mann 379* (K000423934!, holo.).

*A. subaequilaterale* (Baker) Hieron. in Botanische Jahrbücher 46,3: 360, 361 (1911), p.p.
Type: 'Kamerun: bei Bangwe im nördlichen Teil der Kolonie, 1898', *G. Conrau 260* (B20 0023206, B20 0023208, syn.); 'an Baumstämmen im Urwald auf dem Barombiberge, 13 Mai 1889', *P.R. Preuss 198* (B20 0023205, syn.); 'in dichten Wäldern, epiphytisch auf Baumstämmen in den Kongo-Bergen bei 1 600–1 800 m Höhe ü. M., 11 November 1909', *C.L. Lederman 6036* (B20 0023207, syn.).

*A. subhemitomum* Brause in Botanische Jahrbücher 53: 383, 384 (1915).
Type: 'Westafrika: Fernando Poo, Nordseite des Pics von Sta. Isabel, oberhalb Basilé. Übergang zwischen oberen Tropenwald und Bergwald, Epiphyt, 800–1 000 m ü. M. August 1911', *G.W.J. Mildbraed 6441* (B20 0023230!, holo.; P00477796, iso.).

Distribution: Bioko, Cameroon, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Madagacar.

**Asplenium capense** *(Kunze) Bir*, *Fraser-Jenk. & Lovis* in Fern Gazette 13,1: 61 (1985).

*Ceterach capense* Kunze in Linnaea 10: 496 (1836), as '*capensis*'.
Type: "Port Natal et Afrique meridionalea", *J.F. Drège s.n.* (G!, lecto.), designated by Roux (1986: 352); (G!, isolecto.); "Ceded territory, bergwaldungen an den Quellen des Katriver, Oberhalb Philipstown, alt. 3000–4000 ped.", *C.F. Ecklon, & C.L.P. Zeyher s.n.* (UPS!, syn.).

*Grammitis capensis* (Kunze) T.Moore, Index filicum 1: lxiii (Apr. 1857d).

*Gymnogramma capensis* Spreng. ex Kaulf. in Linnaea 6: 183 (1831), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Cap. Bon spei: in einer Felsenritze am Löwenberg, 3. Höhe', *C.L.P. Zeyher s.n.*, Fl. Cap. No. 273 (HAL 81877, ?holo.; BOL!, iso.).

*C. cordatum* (Thunb.) Desv. var. *capense* (Spreng. ex Kaulf.) Hieron. ex Kümmerle in Botanikai Közlemények 8: 287 (1909), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Grammitis cordata* (Thunb.) Sw. var. *pinnata* Hook., A second century of ferns: pl. 7 [1860] (1861), nom. superfl. for *Ceterach capense* Kunze.
Type: As for *Ceterach capense* Kunze.

Chromosome number: diploid, n = 36 (Bir *et al.* 1985: 61).

Distribution: South Africa.

**Asplenium carvalhoanum** *Herrero, Aedo, Velayos & Viane* in Annales Botanici Fennici 38: 177, fig. 1 (7 Sep. 2001).
Type: 'Equatorial Guinea. Litoral, Cogo, entre el poblado de Emangós y Ncó, 1°15'N, 9°48'E, 29.VII.1997', *Carvalho 6417* (MA620514; BATA, GENT, K, iso.).

Distribution: Equatorial Guinea.

**Asplenium ceii** *Pic.Serm.* in Nuovo Giornale Botanica Italiano, ser. 2, 47,1: 11, fig. 3 (1940a).
Type: Ethiopia. 'Caffa: Foresta tra Bonga e Uota, ± 2 300 m., 9-3-1939, Epifita', *G. Cei 14* (FT, holo.).

*A. atroviride* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 204 (1967).
Type: 'Rhodesia, Vumba Mtns. Witchwood, 4200 ft, 27.vi.1955', *E.A.C.L.E. Schelpe 5446* (BOL128067!, BOL128068!, BOL128069!, holo., 3 sheets; BM, iso.).

Distribution: Burundi, Ethiopia, Kenya, Malawi, Mozambique, Sudan, Tanzania, Uganda, Zimbabwe.

**Asplenium centrafricanum** *Pic.Serm.* in Webbia 27,2: 436, 438, fig. 17 [1972] (28 Feb. 1973a).
Type: 'Burundi: Prov. di Muramvya. Foresta umida montana secondaria di Bugarama (3°14'S, 29°32'E). Nella parte inferiore vicno al torrente. 2 050 m. Epifita sui tronchi a 2–6 m. dal suolo in luoghi molto ombrosi ed umidi. 19.XII.1966', *R.E.G. Pichi Sermolli 6992* (BOL128059, FI-PS *23437*; FI-PS *23438*, FI-PS *26451*, FI-PS *26452*, iso.).

Distribution: Burundi, DRC, Rwanda.

**Asplenium ceterach** *L.*, Species plantarum 2: 1080 (1 May 1753) subsp. **ceterach**.
Provenance: 'Habitat in Walliae, Italiae fissuris rupium'. Lectotype: Herb. Clifford: 474, *Asplenium* 4 (BM000647590), designated by Reichstein (1982: 41).

*Ceterach officinarum* Lam. & DC., Flore française, edn 3, 4,2: 566 (17 Sep. 1805).

Chromosome number: the species is a sexual tetraploid based on 2n = 144 (Manton 1950: 304; Vida 1965: 167; Bir *et al.* 1985: 61).

Distribution: Algeria, Egypt, Libya, Morocco, Tunisia.

**Asplenium ceterach** *L.* nothosubsp. **mantoniae** *(Váróczky & Vida) Jermy* in Sommerfeltia 6: viii (1987).

*A.* ×*mantoniae* Váróczky & Vida in Vida in Acta Botanica Academia Scientiarum Hungaricae 9: 202 (1963).
Type: unknown to current author.

*Ceterach officinarum* Willd. nothosubsp. *mantoniae* (Váróczky & Vida) Marchetti in Annali dei Musei Civici-Rovereto. Sezione: Archeologia, Storia, Scienze Naturali 19: 169 [2003] (2004).

Chromosome number: triploid hybrid, 2n = 108 (Pintér & Vida 1993: 223).

Distribution: Algeria (Viane *et al.* 1996: 283).

**Asplenium chaseanum** *Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 206 (1967).
Type: "Zambia, Fort Rosebury Distr., near Samfya Mission, 28/08/1952", *F. White 3163* (BOL128066!, holo.; K000423997!, iso.).

Distribution: DRC, Zambia.

**Asplenium ×chasei** *Viane & Reichstein* in Subh. Chandra & M.Srivastava, Pteridology in the new millennium: 89 (2003).
Type: 'ZIMBABWE: "Umtali, Inyamatshira Mts," 5000 ft, 13 July 1952', *C.N. Chase 4579*, plant 2 only (E, holo.).

Chromosome number: Viane & Reichstein (2003: 89) showed that the nothospecies has a chromosome number of 2n = 108 (triploid), with n = 36(II) and n = 36 (I) during meiosis. It is suggested that *A.* ×*chasei* is a hybrid between *A. semivarians* and *A. varians*.

Distribution: Zimbabwe (also in SE Asia).

**Asplenium christii** *Hieron.* in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 82 (Jun. 1895).
Type: Tanzania, 'Usb., Silai, 1 110 m. In Tropenwald zahlreich beisammen stehend', *C.H.E.W. Holst 2304* (B20 0051646!, holo.; K000423897!, P00483585!, iso.).

*A. amaurophyllum* Peter in Feddes Repertorium, Beiheft 40,1: 73, Anhang: 5, 6 (1929).
Type: "Deutsh-Ost Afrika, O. Usambara: Urwald bei Amani, ± 900 ü. M.", *A. Peter 10211* (B20 0051647!, syn.); 'Uw Amani—Monga 900', *A. Peter, 301f, 7561* (?, syn.); 'Uw Amani—Sangerawe 950', *A. Peter 18145* (?, syn.); 'Hochweiden von Monga im Uw. Bei der Sigiquelle 980', *A. Peter 40145d* (?, syn.); 'Uw bei Kwamkoro 900', *A. Peter 14043* (?, syn.); 'Bg Misolai bei Bulwa 1030', *A. Peter 21915* (?, syn.); 'Wusambara: Balangai—Sakarre 1200', *A. Peter 16140* (?, syn.); 'UluguruGbge bei Morogoro: Schluchten-Uw südl. Über Schlesien beim 20 m hohen Wasserfall des Mlari-Baches 1600', *A. Peter 32245b* (?, syn.).

*A. amaurophyllum* Peter f. *major* Peter in Feddes Repertorium, Beiheft 40,1: 73, Anhang: 6 (1929).
Type: 'DOAfr., OUsamabara: Uw am Bg Bomole b. Amani 1000', *A. Peter 21602* (not located). Identity unknown.

*A. amaurophyllum* Peter f. *longicuspe* Peter in Feddes Repertorium, Beiheft 40,1: 73, Anhang: 6 (1929).
Type: 'DOAfr., OUsambara: Uw Amani—Monga 900', *A. Peter 301g* (not located). Identity unknown.

Distribution: Kenya, Mozambique, South Africa, Tanzania, Uganda, Zimbabwe.

**Asplenium compressum** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 52 (1801).
Type: Sine loc., *sine coll. s.n.* (not located).

*A. foecundum* Kunze in Linnaea 20: 3 (1847b).
Type: Sine loc. Ex hort, *C. Loddiges et filii s.n.* (not located).

*Darea foecunda* (Kunze) Fée, Cinquième mémoires sur la famille des fougères 5: 333 (1852).

Distribution: St Helena.

**Asplenium cordatum** *(Thunb.) Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 54 (1801).

*Acrostichum cordatum* Thunb., Prodromus plantarum capensium: 171 (1800).
Type: 'e Cap bonae spei', *C.P. Thunberg s.n.* (UPS-Thunb 24439!, holo.).

*Grammitis cordata* (Thunb.) Sw., Synopsis filicum: 23, 217 (Mar.–Apr. 1806b).

*Cincinalis cordata* (Thunb.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 311 (1811).

*Notholaena cordata* (Thunb.) Desv. in Journal de Botanique, Appliquée à l'Agriculture, à la Pharmacie, à la Médecine et aux Arts 1: 92 (1813).

*Gymnogramma cordata* (Thunb.) Schltdl., Adumbrationes plantarum 1: 16 (May 1825a).

*Ceterach cordatum* (Thunb.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 223 (Jul. 1827).

*Ceterach crenata* Kaulf., Enumeratio filicum: 85, 86 (Oct. 1824), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: 'Habitat in Promentorio bonae spei', *sine coll. s.n.* (not located).

*Gymnogramma namaquensis* Pappe & Rawson, Synopsis filicum Africae australis: 42 (Jan.–Jul. 1858).
Type: 'Between rocks near Modderfontein, Namaqualand, 1856', *H. Whitehead s.n.* (K!, holo.).

*Gymnogramma cordata* (Thunb.) Schltdl. var. *namaquensis* (Pappe & Rawson) Sim, The ferns of South Africa: 212, pl. CXXV, fig. 3 (1892).

*Ceterach cordatum* (Thunb.) Desv. var. *namaquensis* (Pappe & Rawson) Sim, The ferns of South Africa, edn 2: 176, pl. 73, fig. 3 (1915).

*Grammitis cordata* (Thunb.) Sw. var. *nudiuscula* Hook., A second century of ferns: pl. 7 [1860] (1861).
Type: as for *Gymnogramme namaquensis* Pappe & Rawson.

*Grammitis cordata* (Thunb.) Sw. var. *pinnato-pinnatifida* Hook., A second century of ferns: pl. 7 [1860] (1861).
Type: As for *Grammitis cordata* (Thunb.) Sw.

*Gymnogramma cordata* (Thunb.) Schltdl. var. *subbipinnata* Hook., A second century of ferns: pl. 7 [1860] (1861).
Type: 'elevated mountains of Macalisberg', *C.F. Ecklon & J. Burke s.n.* (missing).

*Ceterach cordatum* (Thunb.) Desv. var. *subbipinnatum* (Hook.) Kümmerle in Botanikai Közlemények 8: 289 (1909).

*Gymnogramma cordata* (Thunb.) Schltdl. var. *bipinnata* Sim, The ferns of South Africa: 212, pl. CXXV, fig. 2 (1892).
Type: Namaqualand, *J.H. Holland s.n.* (NBG0080013-0!, lecto.), designated by Schelpe & Anthony (1986: 206).

*Ceterach cordatum* (Thunb.) Desv. var. *pinnatifida* Sim, The ferns of South Africa, edn 2: 177, pl. 41, fig. 2 (1915).

Chromosome number: the species is a sexual tetraploid based on n = 72 (Bir *et al.* 1985: 62).

Distribution: Angola, Botswana, Kenya, Lesotho, Madagascar, Namibia, Somalia, South Africa, Tanzania, Uganda, Zimbabwe.

See Plate 4E.

**Asplenium cornutum** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 8, 9 (1956a).
Type: 'British Cameroons: Bamenda', *D.R. Rosevear s.n.* (BM, holo.).

*Loxoscaphe cornuta* (Alston) G.Kunkel in Nova Hedwigia 17,1/4: 124 (1969a).

*L. theciferum* (Humb., Bonpl. & Kunth) T.Moore var. *cornutum* (Alston) Pic.Serm. in Webbia 28,2: 469 (1973b).

Distribution: Bioko, Cameroon, Kenya, Uganda.

**Asplenium correardii** *Tardieu* in Naturaliste Malgache 9,1: 33, figs 1–6 (1957c).
Type: "Vallèe de la Mandraka Madagascar, Octobre 1948", *L. Corrèard s.n.* (P00482934!, holo.; P00482935!, iso.).

Distribution: Madagascar.

**Asplenium cuneatum** *Lam*., Encyclopédie méthodique. Botanique 2,1: 309 (16 Oct. 1786).
Type: Sine loc. *sine coll. s.n.* (P-JU 1255, holo.).

*A. cuneatum* Lam. var. *gracile* Bonap. in Notes Ptéridologiques 4: 21 (19 May 1917a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Iles Comores, Johanna. 500 à 1 000 mètres. Abondant sur les troncs des arbes dans les forêts ombreuses. Juin-Août 1875', *J.M. Hildebrandt 1775* (P00212961, holo.; P00212962!, P00212963!, P00216912!, iso.).

*A. cuneatum* Lam. var. *neglectum* G.Kunkel in Nova Hedwigia 17,1/4: 148, t. 28 (1969a).
Type: 'Liberia, Loma Forest, 350 m; epiphytisch', *G. Kunkel 6861* (PTER, holo.).

Distribution: Comoro Isl. (Anjouan), Liberia, Madagascar.

Note: the placing of *Asplenium cuneatum* var. *neglectum* as a synonym of *A. cuneatum* needs confirmation.

**Asplenium currorii** *Hook*., Species filicum 3,10/12: 82 (Nov. 1859–Apr. 1860).
Type: 'W. African coast, south tropics, near Elephant's Bay', *A.B. Curror s.n.* (K?, holo.).

*A. africanum* Desv. var. *currorii* (Hook.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 172 (1953d).

Chromosome number: n = ± 72 (Manton 1959: 79).

Distribution: Angola, Cameroon, Côte d'Ivoire, Ghana, Guinea, Mozambique, Nigeria, Príncipe, São Tomé, Togo.

**Asplenium dalhousiae** Hook. in Hooker's Icones Plantarum 2: pl. 105 (1837b).
Type: India, Simla, in the Himalaya, *Countess Dalhousie s.n.* (K, holo., 2 sheets).

*A. alternans* Wall., A numerical list of dried specimens: no. 221 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Ethiopia.

**Asplenium demerkense** *Hieron.* in Botanische Jahrbücher 46,3: 375, 376 (1911).
Type: 'Abyssinien: an Felsen des Berges Bachit bei Demerk, 3 600 m ü. M., 27 Okt. 1850', *A.F.W. Schimper 243* (B20 00123444, holo.; FI-PS, iso.).

Distribution: Ethiopia, Sudan.

**Asplenium diplazisorum** *Hieron*. in Botanische Jahrbücher 46,3: 351–353 (1911).
Type: 'Kamerun: an feuchten schattigen Stelen an Steinen, 19 Januar 1895', *A. Staudt 22* (B20 0013584, lecto.), notula Viane, 1985; (B20 0013587, K000423908!, P00482937!, isolecto.); "Lolodorf, 450 m, 31/III/95", *A. Staudt 194* (B20 0013585, K000423909!, P00482938!, P00482939!, syn.).

Chromosome number: n = 70 (Manton 1959: 80).

Distribution: Cameroon, Congo, Côte d'Ivoire, DRC, Gabon, Ghana, Guinea, Liberia, Madagascar, Sierra Leone, Uganda.

**Asplenium dregeanum** *Kunze* in Linnaea 10: 517 (1836).
Type: "Inter catarractam magnam et Omsamcaba, in valle rupestri umbrosissima, ad rupes secus rivulum", *J.F. Drège s.n.* (P00483515!, lecto.), designated by Tardieu-Blot (1964a: 142); (B20 0056651, B20 0012214, BM, HBG, K!, isolecto.).

*A. brachypteron* Kunze in Linnaea 23: 232 (1850), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: "W. Afrika", *sine coll. s.n.* (B20 0056649, lecto.).

*A. brachypterum* Kunze ex Houlston & T.Moore in The Gardeners' Magazine of Botany, Horticulture, Floriculture, and Natural Science 3: 260 (1851), as '*brachyopteron*'.
Type: uncertain, discussed by Pichi Sermolli (1985a: 131).

*A. dregeanum* Kunze var. *brachypterum* (Kunze ex Houlston & T.Moore) Bonap. in Notes Ptéridologiques 14: 276 (23 Nov. 1923b), as '*brachypteron*'.

*A. dregeanum* Kunze subsp. *brachypterum* (Kunze ex Houlston & T.Moore) Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 55,1/2: 130 (1985a).

*A. gueinzianum* Mett. ex Kuhn, Filices africanae: 103, 104 (Oct. 1868).
Type: 'Natalia', *W. Gueinzius s.n.* (B20 0015752!, holo.).

*A. dregeanum* Kunze var. *gracile* Bonap. in Notes Ptéridologiques 4: 71 (19 May 1917b).
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analamazoatra. 800 mètres. Sur le stipe d,un Cyathea. Janvier', *H. Perrier de la Bâthie 7532* (P00482942!, holo.; P00482941!, iso.).

*A. dregeanum* Kunze var. *brachypterum* Kunze ex Houlston & T.Moore f. *compactum* Bonap. in Notes Ptéridologiques 15: 15 (25 Feb. 1924).
Type: 'Uganda Protectorate. Sezibua Falls. Épiphyte. 4000 pieds d'altitude. Mai 1915', *R. Dümmer 2610* (US634903, holo.; P00482940!, iso.).

*A. gracile* Peter in Feddes Repertorium, Beiheft 40,1: 73, Anhang: 5, t. 5.2 (1929), non *A. gracile* Pappe & Rawson (1858: 22).
Type: 'DOAfr., UluguruGbge bei Morogoro: Schluchtenurwald südl. über Schlesien, beim ± 20 m hohen Wasserfall des Mlari-Baches unter Felsen 1600', *A. Peter 32241* (B20 0015731!, holo.; K000424003!, iso.).

Chromosome number: n = 72 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore, Mayotte), Côte d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Asplenium elliottii** *C.H.Wright* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1908: 262 (1908).
Type: 'British East Africa. Aberdare Range, at about 2 800 m', *C.F. Elliott s.n.* (K000423896!, holo.).

*A. anisophyllum* Kunze var. *aequilateralis* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 82 (Jun. 1895).
Type: 'Usb., Shagaiuwald bei Mbaramu', *C.H.E.W. Holst 2491* (B20 0011041, holo.; K000423895!, iso.).

*A. anisophyllum* Kunze var. *pseudo-plumosa* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 82 (Jun. 1895).
Type: 'Usb., Shagaiuwald bei Mbaramu', *C.H.E.W. Holst 2492* (?B, holo.).

*A. aequilaterale* (Hieron.) Viane in Biologische Jaarboek, Dodonaea 59: 157 (25 Jun. 1992).

*A. anisophylloides* Bonap. in Notes Ptéridologiques 14: 220, 221 (23 Nov. 1923a).
Type: 'Afrique orientale brittanique. Ruwenzori. Région Est. Forêt Mahoma. De 2 000 à 2 200 mètes d'altitude. Le 30 janvier 1909', *Ch. Alluaud 353* (P00482943!, holo.; P00482944!, P00482945!, iso.).

*A. stenopterum* Peter in Feddes Repertorium, Beiheft 40,1: 75, Anhang: 6 (1929), as '*stenopteron*'.
Type: "Kilimandscharo: Marangu-Bismarckshütte, 2 300 m, 1 700 m ü. M., I.1914", *A. Peter 598* (B20 0023166!, lecto.), notula in herb. B.

Distribution: Burundi, Cameroon, DRC, Kenya, Rwanda, Uganda, Tanzania.

**Asplenium emarginatum** *P.Beauv*. in Flore d'Oware et de Bénin 2,11: 6, pl. 61 (18 Apr. 1808).
Type: "Habitat in Owaria", *A.M.F.J. Palisot de Beauvois s.n*. (P-JU?, holo.; B-W 19876!, iso.).

Chromosome number: n = ± 72 (Manton 1959: 79).

Distribution: Angola, Benin, Bioko, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Príncipe, São Tomé, Sudan, Tanzania, Togo, Uganda.

**Asplenium erectum** *Bory ex Willd*., Species plantarum, edn 4, 5,1: 328 (25–27 Jun. 1810).
Type: "Habitat in insulae Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19906.1!, lecto.), designated by Schelpe & Anthony (1986: 190); (P00483019!, isolecto.).

*A. lunulatum* Sw. var. *erectum* (Bory ex Willd.) Sim, The ferns of South Africa, edn 2: 145 (1915).

*Chamaefilix lunulata* (Sw.) Farw. var. *erecta* (Bory ex Willd.) Farw. in The American Midland Naturalist 12,8: 271 (Mar. 1931).

*A. mutilatum* Kaulf., Enumeratio filicum: 171, 172 (Oct. 1824).
Type: 'Habitat in Promontorio bonae spei', *sine coll. s.n*. (not located).

*A. erectum* Bory ex Willd. var. *mutilatum* (Kaulf.) Pic.Serm. in Webbia 28,2: 468 (1973b).

*A. pyramidatum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 271, 272 (Jul. 1827).
Type: 'In insula Borboniae', erroneously given as 'Tristan d'Acugna', *sine coll. s.n.* (P00483018!, holo.).

*A. lunulatum* Sw. var. *sphenolobium* Zenker ex Kunze in Linnaea 24: 264 (1851a).
Type: unknown to current author.

*A. sphenolobium* (Zenker ex Kunze) Hieron. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 14 (Dec. 1910).

*A. erectum* Bory ex Willd. var. *sphenolobium* (Zenker ex Kunze) Pic.Serm. in Webbia 28,2: 468 (1973b).
Note: Pichi Sermolli (1977c: 80) suggests that var. *sphenolobium* from India is a different entity from the African var. *usambarense*.

*A. zeyheri* Pappe & Rawson, Synopsis filicum Africae australis: 18, 19 (Jan.–Jul. 1858).
Type: 'amongst rocks, and in shady ravines, Uitenhage', *R.N. Rubidge s.n.* (BM?, syn.); 'near Philipstown, Kat River', *C.F. Ecklon & C.L.P. Zeyher s.n.* (BM?, syn.).

*A. erectum* Bory ex Willd. var. *zeyheri* (Pappe & Rawson) T.Moore, Index filicum 2,11: 127 (Jun. 1859b).

*A. erectum* Bory var. *zeyheri* (Pappe & Rawson) Sim, The ferns of South Africa: 139, pl. LXVII, fig. c (1892).

*A. erectum* Bory ex Willd. var. *subbipinnatum* Hook., Species filicum 3,10/12: 127 (Nov. 1859–Apr. 1860).
Type: 'South Africa, British Caffraria', *J.W. Espinasse s.n.* (K?, syn.); 'Albany', *H. Hutton & W.G. Atherstone s.n.* (K?, syn.); 'In the Tsitzikamma', *R.N. Rubidge s.n*. [Rawson & Pappe]' (K?, syn.); 'Gramamstown', *D. Bolton s.n.* (K?, syn.).

*A. lunulatum* Sw. var. *erectum* (Willd.) Sim subvar. *subbiauritum* C.Chr. in Dansk Botanisk Arkiv 7: 94 (Oct. 1932b).
Type: 'Tananarive', *H. Gilpin s.n*. (K?, syn.); 'Central Plateau', *H.T. Hodgkin & C.E. Stansfield s.n.* (K?, syn.).

*A. sphenolobium* (Kunze) Hieron. var. *usambarense* Hieron. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 14 (Dec. 1910).
Type: 'Ruwenzori: Butagu-Tal, Buambuschwald der Vorberge, Bachtäler, am Grnde von Baumfarn-Stämmen, 18–2 100 m ü. M. (Febr. 1908)', *G.W.J. Mildbraed 2713* (B20 0024813, holo.; P00483582!, iso.).

*A. erectum* Bory ex Willd. var. *usambarense* (Hieron.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 207 (1967).

*A. usambarense* (Hieron.) Hieron. in Hedwigia 60,5/6: 227 (1919).

*A. lunulatum* Sw. subsp. *erectum* Bory var. *biauriculata* Bonap. in Notes Ptéridologiques 4: 24, 25 (19 May 1917a).
Type: 'Madagascar. Ambohimango. Bois et forêts. Juin 1906', *Ch. d'Alleizette 127* (P, holo.).

*A. quintasii* Gand. in Bulletin de la Société Botanique de France 66: 305 (1919).
Type: San Thomé, *F. Quintas 1342* (COI, holo.; P00483581!, iso.).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore), DRC, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria,

Réunion, Rwanda, São Tomé, South Africa, St Helena, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium erythraeum** *Pic.Serm*. in Webbia 32,1: 57, 58, fig. 1 (1977b).
Type: 'Eritrea, Oculé Cusai: Gruppo dei Monti Soyra, monte Mamahot verso il torrente Arigot, 2 800–3 000 m. 23.VIII.1902', *A. Pappi 1224* (FI-PS 11405, holo.; FI-PS 11403, FI-PS 11404, FI-PS 11406, iso.).

Distribution: Eritrea.

**Asplenium eurysorum** *Hieron*. in Botanische Jahrbücher 46,3: 364, 365 (1911).
Type: 'Insel S. Thomé: bei Santa Muria und Lagoa Amelia 1 200–1 350 m ü. M., 1885', *A. Moller 28* (B20 0013879, holo.; B20 0013877, B20 0013878, BM!, iso.).

Distribution: Príncipe, São Tomé.

**Asplenium exhaustum** *(H.Christ) Alston* in Catalogue of the vascular plants of São Tomé (with Príncipe and Annobon): 76 (1 Sep. 1944).

*A. dimidiatum* Sw. var. *exhaustum* H.Christ in Journal de Botanique (L. Morot, ed.) 2: 23 (1909a).
Type: 'San-Thomé: rochers humides en allant au sommet du Pic après Lagua Amelia, 1 400 m. à 1 800 m. alt., sept. 1905, n 14587', *A. Chevalier 14587* (P00482949, holo.; P00483474, iso.).
Note: Pichi Sermolli in a note dated '2.XI.1974' designated the respective specimens as lecto- and isolectotypes.

*A. dimidiatum* Sw. var. *subintegrum* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 23 (1909a).
Type: 'San-Thomé: rochers humides allant au sommet du Pic, après Lagua Amelia, 1 400 m. à 1 800 m. alt., Sept. 1905', *A. Chevalier 13659* (not located).

Distribution: São Tomé.

**Asplenium falcatum** *Lam*. var. **bipinnatum** *Sledge* in Bulletin of the British Museum (Natural History), Botany 3,6: 262 (1965).
Type: Sri Lanka. 'Nalanda near Matale, jungle by roadside, 300 m., 13 Jan. 1951', *W.A. Sledge 860* (BM, holo.).

Distribution: Madagascar.

**Asplenium flexuosum** *Schrad.* in Göttingische Gelehrte Anzeigen 1818: 916 (1818).
Type: Cape, *C.H.F. Hesse s.n.* (LE?, holo.).

*A. gemmiferum* Schrad. var. *flexuosum* (Schrad.) Sim, The ferns of South Africa: 145, 146, pl. LXXIV (1892).

*A. lucidum* Schltdl., Adumbrationes plantarum 3: 25, 26 (Oct.–Dec. 1826), p.p., non Burm.f. (1768b: 28), nec G.Forst. (1786b: 80), nec Salisb. (1796: 403).
Type: 'In Promontorii bonae spei sylvis ad Hanglip', *J.L.L. Mund, & L. Maire s.n.* (not located).

*A. discolor* Pappe & Rawson, Synopsis filicum Africae australis: 17 (Jan.–Jul. 1858), non Kunze (1834: 65).
Type: 'In the forests of the Knysna', *Dalgairns s.n.* (K000423947!, K000423948!, syn.); 'Albany', *W.G. Atherstone s.n.* (K, syn.); 'in the mountain-woods near Philipstown, Katrivier', *C.F. Ecklon & C.L.P. Zeyher s.n.* (K, syn.).

*A. gemmiferum* Schrad. var. *discolor* (Pappe & Rawson) Sim, The ferns of South Africa: 146, 147, pl. LXXV (1892).

*A. gemmiferum* Schrad. var. *laciniatum* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 138 (1859b).
Type: D.F.L. von Schlechtendal, Adumbrationes plantarum 3: pl. 14b (1826), Port Natal, icon.

Distribution: South Africa, Zimbabwe.

**Asplenium fontanum** *(L.) Bernh*. in Journal für die Botanik (H.A. Schrader, ed.) 1799,1: 314 (1799).

*Polypodium fontanum* L., Species plantarum 2: 1089 (1 May 1753).
Provenance: 'Habitat in Sibiria, Galloprovincia'. Lectotype: Herb. Burser XX: 38 (UPS), designated by Taylor (1938: 277–279).

Distribution: Morocco.

**Asplenium foreziense** *Legrand*, Statistique botanique du Forez: 252 (Oct. 1873).
Type: 'From the vicinity of Montbrison', (Reichstein 1981: 103), *sine coll. s.n*. (not located).

Distribution: Morocco.

**Asplenium formosum** *Willd.*, Species plantarum, edn 4, 5,1: 329, 330 (25–27 Jun. 1810).
Type: "Habitat ad Caracas", *F. Bredemeyer s.n.* (B-W 19908!, holo.).

Chromosome number: n = ± 36 (Manton 1959: 80).

Distribution: Angola, Burundi, Cameroon, Côte d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Asplenium friesiorum** *C.Chr.* in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 181 (1924).
Type: 'Kenia occid.: pr. Forest Station, in silva densa terrestris, 2 300 m, (Ende Dez. 1921)', *R.E. Fries & T.C.E. Fries 573* (B!, holo.; K000423892!, S, iso.).

*Tarachia friesiorum* (C.Chr.) Momose in Journal of Japanese Botany 35,11: 321, figs 33, 34 (Nov. 1960).

*A. serra* Langsd. & Fisch. var. *natalense* Baker in Synopsis filicum, edn 2: 485 (Oct. 1874a).
Type: 'Natal', *J. Buchanan s.n.* (K, holo.).

*A. caudatum* G.Forst. var. *minor* C.Chr. in Transactions of the Linnean Society of London, Botany 7,19: 417 (Nov. 1912).
Type: 'Mahé and Silhouette', *J.S. Gardiner s.n.* (BM, holo.).

*A. caudatum* G.Forst. var. *reflexum* Bonap. in Notes Ptéridologiques 4: 70, 71 (19 May 1917b).
Type: Madagascar. 'Région floristique du Centre. Mont Ibity, vers 1 600 mètres d'altitude. Éboulis de quartzites un peu ombragés. Juin 1912', *H. Perrier de la Bâthie 7909* (P00482950!, holo.; P00482951!, iso.).

*A. monilisorum* Domin in Preslia 8: 7 (1927).
Type: 'Natal', *M.J. Mc Ken & J. Buchanan 24* (K000423973, holo.); 'Karuris. E. Kinobep, Feb. 1905', *Imp. For. Herb. s.n.* (K, syn.); Tanzania, Kilimanjaro, *Volkens 1272* (not located).

*A. pseudoserra* Domin in Preslia 8: 6 (1927), as *'pseudoserra'*.
Type: 'Habitat in Africa: Mainland W. of Zanzibar', *J.T. Last 1885* (K!, iso.).

*A. friesiorum* C.Chr. var. *nesophilum* F.Ballard in Hooker's Icones Plantarum, ser. 5, 4,3: pl. 3366 (Sep. 1938a).
Type: 'Madagascar', *R. Baron 5637* (K000228379, holo.).

*A. praemorsum* sensu Roxb. in Tracts relative to the island of St Helena: 299 (Jan. 1816).

*A. furcatum* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,1: 94 (Mar.–Jun. 1885a).

*A. serra* sensu Sim, The ferns of South Africa, edn 2: 153, 154, pl. 56 (1915).

Chromosome number: n = ± 70 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore), Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, South Africa, St Helena, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium gemmascens** *Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 10 (1956a).
Type: 'S. Nigeria, Ogoja Prov., on ground in high forest, Ikwette-Balegette path, 4200 ft.', *H.J. Savoy & R.W.J. Keay FHI 25201* (BM, holo.).

*A. torrei* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 209, 210 (1967).
Type: 'Mozambique, Manica & Sofala, Serra da Gorongosa, vertente do monte Nhandore, 1 320 m, 22.x.1965', *A.R. Torre & Â. Pereira 12563* (LICS, holo.; LMU!, SRGH!, iso.).

Distribution: Angola, Cameroon, DRC, Guinea, Malawi, Mozambique, Nigeria, Rwanda, Tanzania, Uganda.

**Asplenium gemmiferum** *Schrad*. in Göttingische Gelehrte Anzeigen 1818: 916 (1818).
Type: 'Cap. b. Sp.', *C.H.F. Hesse s.n.* (GOET!, holo.).

*A. macrolobium* Peter in Feddes Repertorium, Beiheft 40,1: 77, Anhang: 6, 7 (1929).
Type: 'NPareGbge: Uw Kilomeni—Kissangara 1580', *A. Peter 11579* (B20 0056659, lecto.), notula in herb. B; (B20 001767, GOET, K!, isolecto.).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl., Congo, DRC, Kenya, Madagascar, Malawi, Mozambique, South Africa, Tanzania, Uganda, Zimbabwe.

**Asplenium goetzei** *Hieron*. in Botanische Jahrbücher 28: 343, 344 (1900a).
Type: 'Central-Uluguru: auf Bäumen des Lukwangule-Plateaus zwischen Felchten, 2 400 m ü. M., Nov. 1898', *W. Goetze 283* (B20 0015728!, holo.).
Note: P00482952 is given as an isotype, but this is of *Goetze 230*.

Distribution: DRC, Rwanda, Tanzania.

**Asplenium gregoriae** *Baker* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1896: 40 (1896).
Type: 'Madagascar, near Inantasana, 1855', *F. Gregory s.n*. (K000423995!, holo.).

*A. rosendahlii* C.Chr. in Arkiv för Botanik 14,19: 7, pl. 2, fig. 7 (24 Mar. 1916).
Type: 'Madagascaria: Moramanga, in silvis primaevis, 3.10.1912', *K.R. Afzelius & B.T. Palm s.n.* (BM!, holo.).

Distribution: Madagascar.

**Asplenium hallei** *Tardieu* in Aubrév., Flore du Gabon, Ptéridophytes 8: 125, pl. XXI (10 Jul. 1964b).
Type: 'Moumba, entre 750 et 800 m', *N. Hallé & G. Cours 6084* (P00482962!, holo.).

Distribution: Gabon.

**Asplenium harleyanum** *G.Kunkel* in Bericht der Schweizerischen Botanischen Gesellschaft 75: 54 (1965).
Type: Liberia. 'Zuole (District Tappeta), 200 m', *G. Kunkel ex F-123* (BM, iso.).

Distribution: Liberia.

**Asplenium haughtonii** *(Hook.) Bir, Fraser-Jenk. & Lovis* in Fern Gazette 13,1: 62 (1985).

*Gymnogramme haughtonii* Hook. in Synopsis filicum 9: 381 (29 Jan. 1868a).
Type: 'St Helena', *J. Haughton 1060* (P00482963!, iso.).

*Ceterach cordatum* (Thunb.) Desv. var. *haughtonii* (Hook.) C.Chr., Index filicum: 170, 336 (20 Aug. 1905).

*C. haughtonii* (Hook.) Cronk, Endemic flora of St Helena: 92 (2000).

*G. cordata* sensu Hook., Species filicum 5,18/20: 131 (Jun. 1864b), p.p.

Chromosome number: the species is a sexual tetraploid based on n = 72 (Bir *et al.*: 1985: 62).

Distribution: St Helena.

**Asplenium hemionitis** *L.*, Species plantarum 2: 1078 (1 May 1753).
Provenance: 'Habitat in Italia, Hispania'. Lectotype: *Loefling s.n.* Herb. Linn. 1250.2 (LINN), designated by Reichstein (1981: 104).

*Scolopendrium hemionitis* (L.) Lag. in Anales de Historia Natural 5: 150, 151, t. 41, fig. 2 (1802).

*A. palmatum* Lam., Encyclopédie méthodique. Botanique 2,1: 302 (16 Oct. 1786).
Type: Sine loc. *sine coll. s.n.* (P-LA, holo.).

*Phyllitis hemionitis* (Sw.) Kuntze, Revisio generum plantarum 2: 818 (5 Nov. 1891).

*S. sagittatum* DC. in Flore françoise, edn 3, 4,1: 28 (8 Oct. 1815a).
Type: unknown to current author.

*A. sagittatum* (DC.) Bange in Bulletin Mensual de la Société Linnéenne de Lyon 21,4: 84 (1952).

*P. sagittata* (DC.) Guinea & Heywood in Collectanea Botanica 4,2: 246 (1954).

*A. hemionitis* L. var. *productum* Bolle in Zeitschrift für Allgemeine Erdkunde zu Berlin 17: 266 (1864).
Type: S. Nicolau, Monte Gordo, 6.1851 *C.A. Bolle s.n.* (B20 0016022!, K, iso.).

*A. hemionitis* L. var. *rotundatum* Peter in Feddes Repertorium, Beiheft 40,1 Anhang: 5, t. 5, fig. 4a, b (1929).
Type: "N. Spanica oder Teneriffo, 10.1926", *A. Peter 45234* (B20 0016024!, lecto.), notula in Herb. B.

Chromosome number: diploid (Manton 1950: 303; Lovis 1981: 104).

Distribution: Algeria, Cape Verde Isl. (Brava, Fogo, Sto. Antão, S. Nicolau, S. Vicente), Libya, Morocco, Tunisia.

**Asplenium hemitomum** *Hieron*. in Botanische Jahrbücher 46,3: 365–367 (1911).
Type: 'Insel Fernando Po, auf Ölpalmen (*Elais*)', *C. Barter s.n.* (B20 0016049, lecto.), designated by Tardieu-Blot (1964b: 135); (K, isolecto.); 'Am Bache Moam bei Bare in mit höheren Bäumen durchsetztem niedrigem Wald epiphytisch, 25 Nov. 1908', *C.L. Ledermann 1287* (B20 0016039, syn.); 'Kamerun: an nicht angegebenem Orte, 1888', *J. Braun s.n.* (B20 0016036, B20 0016037 syn.); 'Bei

Johann-Albrechts-Höhe an Uferfelen des Sees und Baumstämmen, 2 Febr. 1895', *A. Staudt 586* (B20 0016038, syn.); 'An Felsen und Urwaldbaumstämmen bei Jaunde in 800 m Höhe ü. M., November 1893', *G.A. Zenker & A. Staudt 50* (B20 0056655, syn.); 'An Baumstämmen am Nordufer des Elefanten-Sees bei Barombi, 18 Mai 1890', *P.R. Preuss 292* (B20 0056656, B20 0016040, syn.); 'Und an Felsen im selben See, 29 August 1890', *P.R. Preuss 443* (B20 0016041, syn.); "bei Nu-Tegel. 7.04", *H. Winkler 257a* (B20 0016042, syn.); "Kamerun: a. Nlonako, Ndonge, 17 Nov. 1909", *C. Ledermann 6167* (B20 0016032, B20 0016034, syn.); "Victoria, Bot. Garten, 5. 1904", *H. Winkler 5* (B20 0016035, syn.).

*A. christensenii* Tardieu in Notulae Systematicae (Paris) 13,4: 372, pl. 1, fig. 4 (1948c).
Type: 'Côte d'Ivoire: Massif des Dans, mai 1942', *R.A.A. Schnell 1325* (P00482933!, holo.; P00483473!, iso.).

Chromosome number: n = 144 (Manton 1959: 80).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone.

**Asplenium herpetopteris** *Baker* in Journal of the Linnean Society, Botany 16: 200 (1877a), var. **herpetopteris**.
Type: Madagascar, *H. Gilpin s.n.* (K?, holo.).

Distribution: Madagascar.

**Asplenium herpetopteris** *Baker* var. **acutipinnata** *(Bonap.) Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 50 (1956i).

*A. acutipinnatum* Bonap. in Notes Ptéridologiques 4: 69, 70 (19 May 1917b), as '*acutipinnata*'.
Type: 'Régions floristiques de l'Est et du Centre. Forêt d'Analamazoatra, 800 mètres d'altitude. Sur les vieux troncs. Janvier', *H. Perrier de la Bâthie 7509* (P00482954, holo.; P00482953, iso.).

*A. nigropaleaceum* Bonap. in Notes Ptéridologiques 4: 72 (19 May 1917b), non (Kunze) A.Braun (1862: 2).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Parmi les troncs et les mousses. Avril 1909', *H. Perrier de la Bâthie 7818* (P00482955!, holo.; BM!, P00482956!, iso.).

*A. nigropilosum* Bonap. ex C.Chr. in Dansk Botanisk Arkiv 7: 96, pl. 36, figs 11–15 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo', *H. Perrier de la Bâthie 7818* (P00482955!, holo.; BM!, P00482956!, iso.).

Distribution: Madagascar.

**Asplenium herpetopteris** *Baker* var. **masoulae** *(Bonap.) Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 50, pl. VI (1956i).

*A. herpetopteris* Baker f. *dareoidea* C.Chr. in Dansk Botanisk Arkiv 7: 101, 102 (Oct. 1932b).
Type: 'Tananarive', *H. Gilpin s.n.*, *W. Pool s.n.* (K?, holo.); 'Tanala', *L. Kitching s.n.* (not located); 'Ivohimanitra forest', *C.I. Forsyth-Major 157a* (not located); 'Ambohimitombo forest', *C.I. Forsyth-Major 170, 179* (not located); 'Massif de Manongarivo', *H. Perrier de la Bâthie 7789* (not located); 'Mont Papanga', *H. Humbert 6897* (not located).

*A. masoulae* Bonap. in Notes Ptéridologiques 10: 182, 183 (18 Mar. 1920e).
Type: Madagascar. 'Région floristique de l'Est. Côte Est. asoula. 500 mètres d'altitude. Rocailles. Octobre 1912', *H. Perrier de la Bâthie 7931* (P00482958!, holo.; BM!, P00482957!, P00482959!, iso.).

Distribution: Madagascar.

**Asplenium herpetopteris** *Baker* var. **villosum** *(Bonap.) Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 50 (1956i).

*A. affine* Sw. var. *herpetopteris* (Baker) Bonap. in Notes Ptéridologiques 5: 88 (10 Dec. 1917e).

Distribution: Madagascar.

**Asplenium hispanicum** *(Coss.) Greuter & Burdet* in Willdenowia 10,1: 17 (12 Aug. 1980).

*Grammitis hispanica* Coss. in Notes sur quelues plantes critiques, rares ou nouvelles 1,2: 48 (15 Dec. 1849).
Type: 'In sissuri umbrosis rupium abruptarum regionis mantanae Granatensis, ad fauces montis Sierra de Ronda dictas Puerto del Viento, 29a di Junii 1849', *E. Bourgeau pl. Esp. 515* (P, holo.).

*Pleurosorus hispanicus* (Coss.) C.V.Morton in Bulletin de la Société Botanique de France 106,5/6: 233 (1959b).

*A. subglandulosum* (Hook. & Grev.) Salvo, Prada & Díaz subsp. *hispanicum* (Coss.) Salvo, Prada & T.E.Díaz in Candollea 37,2: 481 (23 Dec. 1982).

Chromosome number: diploid, n = 36 (Lovis 1973: 215).

Distribution: Algeria, Morocco.

**Asplenium holstii** *Hieron*. in Botanische Jahrbücher 46,3: 348, 349 (1911).
Type: 'Deutsch-Ostafrika: an Baumstämmen des Urwaldes bei Bumbu-Fustii unweit Mashëua, 28 Juli 1893', *C.H.E.W. Holst 8726* (B20 0019104, lecto.), notula R. Viane; (P00483450, isolecto.); 'Im Waldgebirge Shagaia bei Mbaramu, Juli 1829', *C.H.E.W. Holst 3701* (B20 0016103, syn.).

*A. africanum* Desv. var. *holstii* (Hieron.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 172 (1953d).

Distribution: Kenya, Malawi, Mozambique, Tanzania, Zimbabwe.

**Asplenium humblotii** *Hieron*. in Hedwigia 60,5/6: 263, 264 (1919).
Type: 'Comoren-Inseln: An nicht angegebenem Fundorte', *L. Humblot 1546* (B20 0016161!, holo.; BM!, iso.).

Distribution: Comoro Isl.

**Asplenium hypomelas** *Kuhn*, Filices africanae: 104 (Oct. 1868), nom. nov. for *Davallia nigrescens* Hook. [1860] (1861: pl. 93).

*Davallia nigrescens* Hook., A second century of ferns: pl. 93 [1860] (1861), non *Asplenium nigrescens* Blume (1828: 180), nec *Asplenium nigrescens* Hook.f. (1847b: 170).
Type: "Fernando Po. 3000 ft above the sea. April 1860", *G. Mann 448* (K000423923 (6 sheets), holo.; B, iso.).

*Loxoscaphe nigrescens* (Hook.) T.Moore, Index filicum 2,25: 297 (Sep. 1861d).

*D. hollandii* Sim in Transactions of the South African Philosophical Society 16: 274 (1906).
Type: 'Rhodesia: prope Umtali', *J.H. Holland s.n.* (PRE0592057, holo.; NBG0081129-1, NBG0081129-2!, iso.).

*A. floccigerum* Rosenst. in Feddes Repertorium 4: 3, 4 (1907).
Type: 'Hab. - Africa orient. germ., Kilimanjaro 3 000–4 000 m in sylva primaeva', *P. Daubenberger s.n.* (S, holo; P00483560!, P00483561, iso.).

*A. hollandii* (Sim) C.Chr., Index filicum. Supplementum 1906–1912: 11 (20 Dec. 1913a).

*A. spathulatum* Peter in Feddes Repertorium, Beiheft 40,1: 81, Anhang: 8, 9 (1929), non Baker (1894: 124).
Type: "Deutsch-Os-Afrika, Landschaft Uluguru Gbge: Urwald südürlik der Mission Schlsien über Morogoro, ± 1 600 m. ü. M., XI 1914", *A. Peter 6858* (GOET, holo.; B20 0022977!, iso.).
Note: Pichi Sermolli (1977c: 77) considers the GOET specimen as the holotype while a red label of unknown origin on the Berlin specimen indicates it as being a lectotype.

*L. spathulata* (Peter) Pic.Serm. in Webbia 32,1: 77 (1977c), nom. nov. for *Asplenium spathulatum* Peter, non Baker (1894: 124).

*A. morogorense* Viane in Biologische Jaarboek, Dodonaea 59: 161 (25 Jun. 1992), nom. nov. for *Asplenium spathulatum* Peter, non Baker (1894: 124).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Ethiopia, Guinea, Kenya, Liberia, Malawi, Mozambique, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Asplenium inaequilaterale** *Bory ex Willd*., Species plantarum, edn 4, 5,1: 322 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19896!, holo.; P00483023!, iso.).

*A. brachyotus* Kunze in Linnaea 10: 512 (1836).
Type: "Ad catarractum magnam in praeruptis umbrosis inter Omsamcaba", *J.F. Drège s.n.* (LZ†; B!, lecto.), designated by Roux (1986: 359); (BM!, K000423971!, K000423972!, iso.).

*A. erectum* Bory ex Willd. var. *brachyotus* (Kunze) Sim, The ferns of South Africa: 138, pl. LXVI (1892).

*A. laetum* Sw. var. *brachyotus* (Kunze) Bonap. in Notes Ptéridologiques 16: 60 (14 Apr. 1925a).

*A. suppositum* Hieron. in Botanische Jahrbücher 46,3: 353, 354 (1911).
Type: 'Angola: an feuchten Felsen bei Pungo Andongo, 14 April 1875', *H. Soyaux 234* (B20 0023252, holo.; B20 0023250, K000424000!, iso.).

*A. laetum* Sw. var. *falciformis* Bonap. in Notes Ptéridologiques 4: 22 (19 May 1917a).
Type: 'Madagascar. Ambatolaona. Bois, forêts. Août 1906', *Ch. d'Alleizette 129* (P00483052!, holo.).

*A. laetum* sensu Sim, The ferns of South Africa, edn 2: 150, pl. 50, fig. 1 (1915), non Sw. (1806b: 79, 271).

Chromosome number: n = ± 72 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl. (Anjouan), DRC, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Réunion, São Tomé, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Asplenium insulare** *Carmich*. in Transactions of the Linnean Society of London 12: 512 (1818).
Type: Tristan da Cunha. 'In the wood', *L.-M.A. du Petit-Thouars s.n.* (P, lecto.), designated by Roux (1993c: 85).

*A. marinum* sensu Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 34 (Oct. 1808), non L. (1753: 1081).

*A. lunulatum* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 166 [1884] (Mar.–Jun. 1885b), non *A. lunulatum* Bory ex Willd. (1810: 328).

*A. erectum* sensu E.W.Groves in Bulletin of the British Museum (Natural History), Botany 8,4: 405 (30 Jul. 1981), non Bory ex Willd. (1810: 328).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

**Asplenium irregulare** *Baker* in Synopsis filicum 6: 222 (8 Jul. 1867d).
Type: 'Sierra del Crystal, Guinea Coast', *G. Mann 1636* (K000423910, holo.).

*A. productum* Mett. ex Kuhn, Filices africanae: 112 (Oct. 1868).
Type: 'Africa occidentalis tropica. Sierra de Crystal', *G. Mann 1636* (K000423910, iso.).

Distribution: Guinea.

**Asplenium isabelense** *Brause* in Botanische Jahrbücher 53: 382, 383 (1915).
Type: 'Westafrika: Fernando Poo, Nordseite des Pics v. Sta. Isabel oberhalb Basilé. 16 Aug. 1911', *G.W.J. Mildbraed 6413* (B20 0016431!, holo.; HBG, P00482967!, iso.).

Distribution: Bioko.

**Asplenium jaundeense** *Hieron*. in Botanische Jahrbücher 46,3: 369, 370 (1911).
Type: 'Kamerun: an Felsen und Baumstämmen des Urwaldes bei Jaunde in 800–1 000 m Höhe ü. M., 1890–1892', *G.A. Zenker 214* (B, Z000002040, syn.); 'in lichten Waldungen an steinigen Abhängen der lagoo-Berge in 300 m Höhe ü. M., 25 Juni 1909', *C.L. Ledermann 4396* (not located).

*A. dimidiatum* Sw. var. *zenkeri* Hieron. in Die Vegetation der Erde 9,2: 28, fig. 24D (Feb. 1908).
Type: 'Kamerun: an Felsen und Baumstämmen des Urwaldes bei Jaunde in 800–1 000 m Höhe ü. M., 1890–1892', *G.A. Zenker 214* (B, lecto.), designated by Tardieu-Blot (1964a: 209).

Distribution: Cameroon, Equatorial Guinea, Gabon, Guinea.

**Asplenium lademannianum** *Rosenst*. in Feddes Repertorium 6: 177 (1909).
Type: 'Africa orientalis germanica: Kondoa-Irangi, in silva primaeva montis Ufiome, 1 800 m alt., IX. 1905', *I. Lademann s.n.* (P00483584, iso.).

Distribution: Tanzania.

**Asplenium lambinonii** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 55,1/2: 140, 142, fig. 1 (1985a).
Type: 'Zaire, Prov. Kivu, Réserve de l'IRS, sur la rive droite de la rivière Luhoho, env. 850 m, forêt équatoriale, épiphyte sur tronc, 24.IV.1978', *J. Lambinon 78/282* (LG, holo.; BR, FI-PS, iso.).

Distribution: DRC.

**Asplenium lastii** *C.Chr*., Index filicum: 117 (1 Jul. 1905), nom. nov. for *Asplenium longisorum* Baker (1891a: 301), non *A. longisorum* Blume (1828: 178).

*A. longisorum* Baker in Journal of Botany, British and Foreign 1891: 4 (1891b).
Type: Madagascar, Bé Kilus Mountains, *J.T. Last s.n.* (K000423993!, holo.).

Distribution: Madagascar.

**Asplenium laurentii** *J.Bommer ex H.Christ* in Bulletin de l'Herbier Boissier 4,10: 663 (Oct. 1896).
Type: 'Vungu, Bas Congo, Novembre 1893', *É. Laurent s.n.* (not located).

*A. ginkgo* Hieron. ex De Wild., Mission Émile Laurent 1: 2, pl. iv (Aug. 1905), nom. nud.
Type: 'Eala, 29 décembre 1903', *É. Launert s.n.* (not located).

Distribution: Cameroon, Congo, DRC, Equatorial Guinea, Gabon, Liberia, Uganda.

**Asplenium leandrianum** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 51, 52 (1956i).
Type: Madagascar. 'Massif du Tsaratanana, flanc Sud de l'Antsianongatalata, 2 600 m', *H. Humbert 18463* (P00482970!, P00482971!, holo; P00482972!, P00482973!, iso.).

Distribution: Madagascar.

**Asplenium ×liberiense** *G.Kunkel* in Nova Hedwigia 17,1/4: 145, t. 24 (1969a).
Type: 'Liberia, Loma Forest, epiphytisch an moosigen Baumstamm in 400 m. ü. M., 16.12.1961', *G. Kunkel 682* (PTER, holo.).

Distribution: Liberia.

**Asplenium linckii** *Kuhn*, Filices africanae: 22, 23 (Oct. 1868).
Type: 'Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga, 5500–7800 ped., 1864', *K. von der Decken & O. Kersten 40* (B20 0017193, holo.).

*A. daubenbergeri* Rosenst. in Feddes Repertorium 4: 2, 3 (1907).
Type: 'Hab. Africa orient. germ., in mte. Kilimanjaro, prope Kibosho in cultis subumbrosis, 1907', *P. Daubenberger 43* (B, holo.; BM!, P00483514!, iso.).

*A. albersii* Hieron. var. *eickii* Hieron. in Botanische Jahrbücher 46,3: 381 (1911).
Type: 'Deutsch-Ostafrika: bei Kwai (Kwei), 1900–1901', *E. Eick 119* (B20 0011250!, holo.).

*A. decompositum* Peter in Feddes Repertorium, Beiheft 40,1: 79, Anhang: 7, t. II, figs 5, 6 (1929).
Type: "Kilimandsharo: Urwald über Moshi, 2 700 m", *A. Peter 1305* (B20 0013434!, lecto.), notula in herb. B; Sine loc. *A. Peter 1341* (not located).

Distribution: Burundi, DRC, Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda, Zimbabwe.

**Asplenium lividum** *Mett. ex Kuhn* in Linnaea 36: 100 (1869b).
Type: Venezuela, Aragua, Colonia Tovar, *A. Fendler 156* (B, holo.; F, MO, US, iso.).

*A. bernieri* Cordem., Flore de l'Ile de la Réunion: 66 (1895).
Type: "Ile Réunion", *H.J. de Cordemoy 7* (P00483024!, iso.).

*A. laciniatum* D.Don var. *planicaule* (Wall.) Bonap. in Notes Ptéridologiques 16: 60 (14 Apr. 1925a), nom. nud. [McNeill *et al.* (2006) 32.1(d) & Art. 41.3].

*A. planicaule* Wall., A numerical list of dried specimens: no. 189 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Nepalia, 1820', *N. Wallich s.n.* (not located).

Distribution: Angola, Cameroon, Kenya, Madagascar, Malawi, Mozambique, Réunion, São Tomé, Sierra Leone, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium lobatum** *Pappe & Rawson*, Synopsis filicum Africae australis: 22 (Jan.–Jul. 1858).
Type: 'In woods of British Kaffraria', *J.W. Espinasse s.n.* (BM, syn.); 'Albany', *W.G. Atherstone s.n.* (BM, syn.); 'In the Tzitsikamma', *R.N. Rubidge s.n.* (BM, syn.).

*A. erectum* Bory ex Willd. var. *lobatum* (Pappe & Rawson) Sim, The ferns of South Africa: 139, pl. LXVII (1892).

*A. gracile* Pappe & Rawson, Synopsis filicum Africae australis: 22 (Jan.–Jul. 1858), non D.Don (1825: 8), nec Fée (1852: 198), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], nec (Fournier) Hemsl. (1885c: 634).
Type: 'In the primaeval forests of Natal', *W. Gueinzius s.n.* (S, holo.).

*A. pappei* T.Moore, Index filicum 2,12: 135, 152 (Jul. 1859c), nom. nov. for *Asplenium gracile* Pappe & Rawson (1858: 22), non D.Don (1825: 8), nec Fée (1852: 198).

*A. lunulatum* Sw. var. *gracile* (Pappe & Rawson) Sim, The ferns of South Africa, edn 2: 146, pl. 49, t. a, b (1915).

*A. erectum* Bory ex Willd. var. *gracile* (Pappe & Rawson) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 222, fig. XXX, t. 4, 5 (May 1958b).

*A. lobatum* Pappe & Rawson var. *pseudo-abyssinicum* N.C.Anthony & Schelpe in Contributions from the Bolus Herbarium 10: 149 (2 Apr. 1982).
Type: "Mozambique, Manica & Sofala, Gorongosa Mountain, southwest sector, 4000 ft, 07/07/1955", *E.A.C.L.E. Schelpe 5597* (BOL128065!, holo.; B, BM, M, MO, P, PR, PRE, iso.).

Distribution: Madagascar, Malawi, Mozambique, South Africa, Swaziland, Zimbabwe.

**Asplenium lokohoense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 52 (1956i).
Type: Madagascar. 'Massif du Marojejy, 700–800 m, près du col de Doanianala', *H. Humbert 23017* (P00482974!, holo.).

Distribution: Madagascar.

**Asplenium longicauda** *Hook.*, A second century of ferns: pl. 69 [1860] (1861).
Type: 'Western tropical Africa, S. of the line', *A.B. Curror s.n.* (?K, syn.); 'Prince's Island', *C. Barter s.n.,* in Baikie's Niger Exped. n. 1900 (K000423940, K000423944, syn.); 'Fernando Po, on trees, Peak Mountain, at an elevation above the sea of 3000 feet', *G. Mann 341* (K000423941, syn.).

*A. pachysorum* Baker in Journal of Botany, British and Foreign 1891: 4 (1891b).
Type: Madagascar, Bé Kilus Mountains, *J.T. Last s.n.* (K000423991!, holo.).

Distribution: Bioko, Cameroon, Liberia, Madagascar, Príncipe.

**Asplenium longissimum** *Blume*, Enumeratio plantarum Javae 2: 178 (15 Dec. 1828).
Type: Java, *C.L. Blume s.n.* (L0051013).

Distribution: Diego Garcia.

**Asplenium loxoscapoides** *Baker* in Transactions of the Linnean Society of London, Botany, ser. 2, 2,15: 354 (1887b).
Type: 'Kilima-njaro, 8000 ft, 1884', *H.H. Johnston 43* (K000424002!, holo.).

*A. loxoscapoides* Baker var. *compacta* Bonap. in Notes Ptéridologiques 14: 224 (23 Nov. 1923a).
Type: 'Afrique orientale allemande. Kilimandjaro. Région du Sud-Est. Zône supérieure des forêts. 2760 mètres d'altitude. Octobre 1908', *Ch. Alluaud 40* (P?, holo.).

Distribution: Kenya, Malawi, Tanzania, Uganda.

**Asplenium lunulatum** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 52 (1801).

*A. erectum* Bory ex Willd. var. *lunulatum* (Sw.) Sim, Handbook of the ferns of Kaffraria: 40 (Oct. 1891).

*Chamaefilix lunulata* (Sw.) Farw. in The American Midland Naturalist 12,8: 270 (Mar. 1931).

*A. falcatum* Thunb., Prodromus plantarum capensium: 172 (1800), nom. superfl. [McNeill *et al.* (2006) Art. 53.1], non Lam. (1786: 306), nec Retz. (1791: 37).
Type: 'e Cap b. Spei', *C.P. Thunberg s.n.* (UPS-Thunb 24818!, holo.).

*A. tenellum* Roxb. in Tracts relative to the island of St Helena: 299 (Jan. 1816).
Type: St Helena, *J. Roxburgh s.n.* (?BM, holo.).

*A. radicans* S.Pritch., An alphabetical list of indigenous and exotic plants on the island of St Helena: 6 (1836), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*A. pulchrum* Thouars ex C.Presl, Tentamen pteridographiae: 108 (Oct. 1836).
Type: Based on Wallich, A numerical list of dried specimens: no. 2211 (1830).

*A. reclinatum* Houlston & T.Moore in The Gardeners' Magazine of Botany, Horticulture, Floriculture, and Natural Science 3: 260 (1851).
Type: unknown to current author.

*A. erectum* Bory ex Willd. var. *minor* Sim, Handbook of the ferns of Kaffraria: 40, pl. 31, t. 2 (Oct. 1891).
Type: 'Dohne Hill, Kaffraria', *T.R. Sim s.n*. (PRE, holo.).

*A. lunulatum* Sw. var. *minor* (Sim) Sim, The ferns of South Africa, edn 2 144, pl. 45, fig. 2 (1915).

*A. alatum* sensu A.Rich. in Voyage de découverts de l'Astrolabe 2, Sertum Astrolabianum: 52 (1834).

Distribution: Angola, Ascension Isl., Bioko, Kenya, Madagascar, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Asplenium macrophlebium** *Baker* in Synopsis filicum, edn 2: 485 (Oct. 1874a).
Type: 'Fernando Po, 2000 ft.', *G. Mann 338* (K000423939!, holo.).

Distribution: Bioko, Burundi, Cameroon, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Guinea, Kenya, Liberia, Sudan, Tanzania, Uganda.

**Asplenium macrophyllum** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 52 (1801).
Type: Mauritius, *C.F. Gröndahl s.n.* (S, holo.).

*A. capuronii* Tardieu in Naturaliste Malgache 9,1: 33, 34, figs 7–9 (1957c).
Type: "Pentes occidentals du Massif de Morojejy (nord-est) Bassin de la Lokoho, a l'est d'Ambalamanasy, district d'Andopa. Forêt ambrophile sur latérite de gneiss, 450–800 m. 28 Nov.–6 Déc. 1948", *H. Humbert & R. Capuron 22178* (P00482975!, holo.).

Distribution: Comoro Isl., Diego Garcia, Madagascar.

**Asplenium mangindranense** *Tardieu* in Naturaliste Malgache 7,1: 91, fig. 1, t. 6–9 (1955e).
Type: Madagascar. 'Montagnes au Nord du Mangindrano (haute Maevararo) jusqu'au sommet d'Ambohimirahavavy, forêt ombrophile, sur latérite de gneiss, 1 200–1 400 m', *H. Humbert et R. Capuron 25364* (P00482976!, holo.; P00482977!, P00482978!, iso.).

Distribution: Madagascar.

**Asplenium mannii** *Hook*., A second century of ferns: pl. 60 [1860] (1861).
Type: 'Peak of Fernando Po, elev. 3 000 ft above the level of the sea, epiphytal', *G. Mann 372* (BM, holo.; K000423925!, iso.).

*Lindsaea mannii* (Hook.) Hillebr., Flora of the Hawaiian Islands: 624 (Mar. 1888).

*Loxoscaphe mannii* sensu Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 37 (Aug.–Sep. 1879).

Distribution: Angola, Bioko, Burundi, Cameroon, DRC, Ethiopia, Guinea, Kenya, Madagascar, Malawi, Mozambique, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium marinum** *L*., Species plantarum 2: 1081 (1 May 1753).
Provenance: 'Habitat in Anglia, insulis Stoechabum. Burs.', Lectotype not yet designated.
Note: Reichstein (1981: 105) has variously treated material in LINN (evidently sheet 1250.14) and (1982: 41) Herb. Clifford: 474, *Asplenium* 3 (BM) as the lectotype. Linnaeus explicitly cited a Burser collection (Herb. Burser XX: 39) in the protologue. As a syntype it must take precedence over the original material in the designation of a lectotype [McNeill *et al.* (2006), Art. 9.10].

Chromosome number: diploid, 2n = 72 (Manton 1950: 304).

Distribution: Algeria, Morocco, Tunisia.

**Asplenium marojejyense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 238, fig. 7, t. 1–4 (1955f).
Type: Madagascar. 'Contreforts occidentaux du massif du Marojejy, aux abords du village d'Ambalava, 500–600 m, forêt ombrophile, sur latérite de gneiss', *H. Humbert 23234* (P00482980!, holo.; P00482981, P00482982!, iso.).

Distribution: Madagascar.

**Asplenium mauritiensis** *Lorence* in Fern Gazette 11,6: 369, fig. 1 (1978b).
Type: 'Mauritius. Piton du Fouge, crest near summit', *D.H. Lorence 1602* (MO, holo.; K, MAU, P, iso.).

Distribution: Mauritius.

**Asplenium megalura** *Hieron*. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 17, 18 (Dec. 1910).

Type: Tanzania, Kwai, *Albers 288* (B, syn.); *Buchwald 236* (B, K, syn.); Usambara, *Busse 380* (B, syn.), Kwai, *Eick 413* (B, syn.); Amani, *Engler 573* (B, syn.); 'Usambara: am Stamme von Urwalbäumen herabhängend, ohne genaueren Standort, (Okt. 1891)', *C.H.E.W. Holst 83* (B20 0018034, lecto.), designated by Tardieu-Blot (1964b: 138), *Holst 4255a* (B, syn.); Uluguru, *Stuhlmann 8902* (B, syn.); Wuga to Manka, *Uhlig 1504* (B, syn.); *Volkens 61* (B, syn.); Congo, Lake Kivu, *Mildbraed 1235* (B, syn.); 'An schattigen Ufern bei Munso, 1300 m ü. M., Dez. 1895', *J. Buchwald 136* (B, K!, syn.).

*A. molleri* Hieron. in Botanische Jahrbücher 46,3: 371, 372 (1911).
Type: 'Insel S. Thomé: bei Bom Succeso in einer Höhe von 1 075 m, 1885', *A. Moller 29* (B20 0018133, holo.; B20 0018134, BM!, K000423916!, P00477782!, P00477783!, P00477784!, P00477785!, iso.).

*A. dimidiatum* Sw. var. *longicaudatum* Hieron. in Die Vegetation der Erde 9,2: 28, fig. 24c (Feb. 1908).
Type: Tanzania, Uluguru near Kibango, *Stuhlmann 8902* (B, holo.).

*A. megalura* Hieron. ex Brause var. *molleri* (Hieron.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 190 (1953d).

*A. megalura* Hieron. ex Brause var. *exhaustoides* G.Kunkel in Nova Hedwigia 17,1/4: 141 (1969a).
Type: 'Liberia. Gola Forest', *G. Kunkel 6889* (PTER, holo.).

Distribution: Bioko, Burundi, Cameroon, Côte d'Ivoire, DRC, Gabon, Ghana, Guinea, Kenya, Liberia, Malawi, Mozambique, Rwanda, São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia.

**Asplenium mildbraedii** *Hieron.* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 21, 22 (Dec. 1910).
Type: 'Vulkan-Gebiet: Ninagongo, Region der subalpinen Sträucher, ± 3 000 m ü. M. Okt. 1907', *G.W.J. Mildbraed 1369* (B, syn.); 'Randberge bei Kahama, lichtere Stellen im Bambusmischwald unter *Hypericum*-Gebüsch, 2 300–2 400 m ü. M. Nov. 1907', *G.W.J. Mildbraed 1779* (B, syn.); 'Usambara, Bergwald bei magamba oberhalb Kwai, 2 400–2 600 m ü. M. Okt. 1902', *A. Engler 1288* (B, syn.).

Distribution: Burundi, DRC, Madagascar, Rwanda, Tanzania, Uganda.

**Asplenium monanthes** *L.*, Mantissa plantarum 1: 130 (15–31 Oct. 1767b).
Provenance: 'Habitat ad Cap. b. spei'. Lectotype: Herb. Linn. No. 1250.17!, (LINN), designated by Morton & Lellinger (1966: 34).

*A. monanthemum* L., Systema naturae, edn 12, 2: 690 (15–31 Oct. 1767a), hom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Asplenium monanthes* L.

*Chamaefilix monanthes* (L.) Farw. in The American Midland Naturalist 12,8: 269 (Mar. 1931).

*A. repente* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 271 (Jul. 1827).
Type: 'Crescit in insula Madagascariae', *sine coll s.n.* (P00222774!, holo.).

*A. monanthes* L. var. *triangularipinnatum* Bonap. in Notes ptéridologiques 16: 63 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique du Centre. Mont Tsiafojavona. Flanc Est. 2 000 mètres d'altitude. Sur les troncs. Mars 1921', *H. Perrier de la Bâthie 13540* (P00222707!, holo.; P00222708!, iso.).

Chromosome number: triploid, 2n = 108 (Manton & Vida 1968: 364), generally triploid and apogamous, 2n = 108 (Manton 1950: 304).

Distribution: Bioko, Cameroon, Ethiopia, Gough Isl., Inaccessible Isl., Kenya, Lesotho, Madagascar, Malawi, Réunion, Rwanda, Somalia, South Africa, Sudan, Tanzania, Tristan da Cunha, Uganda, Zimbabwe.

**Asplenium mossambicense** *Schelpe* in Journal of South African Botany 34,4: 235, pl. 1 (1968b).
Type: 'Mozambique, Manica e Sofala, Gorongosa Mtn, 7.vii.1955', *E.A.C.L.E. Schelpe 5593* (BOL128064!, holo., 2 sheets; BM, iso.).

Distribution: Kenya, Mozambique, Zimbabwe.

**Asplenium multiforme** *Krasser* in Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums, Wien 15: 4 (1900).
Type: 'Griqualand East, Newmarket, 1.II.1895', *P. Krook s.n.* in Pl. Penther 31 (W!, holo.).

Distribution: Lesotho, South Africa, Swaziland.

**Asplenium nidus** *L.*, Species plantarum 2: 1079 (1 May 1753).
Provenance: 'Habitat in Javae summis arboribus. Osbeck'. Lectotype: P. Osbeck 49 Herb. Linn. 1250.6 (LINN), designated by Holttum (1974a: 147).

*Neottopteris nidus* (L.) J.Sm. in Genera filicum: pl. 113B (1842c).

*Thamnopteris nidus* (L.) C.Presl, Epimeliae botanicae: 68 (1851).

*T. mauritiana* C.Presl, Epimeliae botanicae: 68 (1851).
Type: 'Habitat in sylvis ad truncos arborum vetustarum vulgaris insulae Mauritii', *F.W. Sieber*, Fl. Maurit. 46 (K, holo.).

*N. mauritiana* (C.Presl) Fée, Cinquième mémoires sur la famille des fougères 5: 203 (1852).

Distribution: Comoro Isl. (Anjouan, Grande Comore), Diego Garcia, Kenya, Madagascar, Pemba, Réunion, Rodrigues Isl., Tanzania, Zanzibar.

**Asplenium nigritianum** *Hook.*, A second century of ferns: pl. 44 [1860] (1861).
Type: 'Prince's Island, Fernando Po', *C. Barter* in Baikie's 2nd Niger Exped. 1898 (B20 0018905, iso.).

Distribution: Annobon, São Tomé.

**Asplenium nitens** *Sw.*, Synopsis filicum: 264, 421 (Mar.–Apr. 1806b).
Type: 'Habitat in Ins. Borboniae', *sine coll. s.n.* (not located).

*A. nitens* Sw. var. *angustifolia* Kuhn, Filices africanae: 21, 22 (Oct. 1868).
Type: 'Ins. Comorae. In monte ignivomo insulae Angasiliae 3600–6000 ped. Majo 1864', *O. Kersten 34* (not located).

Distribution: Mauritius, Réunion.

**Asplenium normale** *D.Don*, Prodromus florae nepalensis: 7 (26 Jan.–1 Feb. 1825), var. **normale**.
Type: 'Hab. ad Narainhetty Nepalensium', *F. Buchanan-Hamilton s.n.* (BM, holo.).

Distribution: Kenya, Madagascar, Malawi, Mauritius, Mozambique, Rwanda, Tanzania, Uganda.

**Asplenium normale** *D.Don* var. **angustatum** *C.Chr.* in Dansk Botanisk Arkiv 7: 97, pl. 34, figs 4, 5 (Oct. 1932b).
Type: 'Mt. Tsaratanana', *H. Perrier de la Bâthie 15635* (P?, holo.; BM!, iso.).

*A. normale* D.Don var. *grandidentatum* Bonap. in Notes Ptéridologiques 16: 66 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 1 000 mètres d'altitude. Bois. Avril 1909', *H. Perrier de la Bâthie 7815* (P00482991!, holo.; P00222709!, iso.).

*A. rectangulare* Bonap. in Notes Ptéridologiques 16: 189, 190 (14 Apr. 1925b), non *Asplenium rectangulare* Maxon (1908: 478).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarico, vers 1 000 métres d'altitude. Gneiss, rocailles. Mai 1909', *H. Perrier de la Bâthie 7681* (P00222768, holo.; BM!, iso.).

*A. multijugum* Wall., A numerical list of dried specimens: no. 207 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Nepalia, 1821', *N. Wallich s.n.* (not located).

*A. opacum* Kunze in Linnaea 24: 261, 262 (1851a).
Type: Nilgerries Kurr. 30, *Weigle-Schaeffer 21* (not located).

*A. multijugum* Wall. ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 179 (1859b).

*A. induratum* Hook., A second century of ferns: pl. 68 [1860] (1861).
Type: 'Interior of Naviti Levu, Fiji Islands', *W.G. Milne 131* (not located).

Distribution: Madagascar.

**Asplenium obovatum** *Viv.*, Flora Libycae specimen: 68 (1824), subsp. **obovatum**.
Type: "Corsica", *sine coll. s.n.* (GE†, holo.); "*Asplenium obovatum* Viv., Corsica. Bert. Fl. Ital. Crypt. p. 76. n. 10. Dedit Viviani 1825" (BOLO, lecto.), designated by Pichi Sermolli (1976: 38, 39, fig. 1).

*A. obovatum* Viv. var. *typicum* (Luerss.) Maire in Encyclopédie Biologique 33: 50 (1952).

Chromosome number: diploid, n = 36, 2n = 72 (Manton & Reichstein 1962: 84–86).

Distribution: Algeria, Morocco, Tunisia.

**Asplenium obscurum** *Blume*, Enumeratio plantarum Javae 2: 181, 182 (15 Dec. 1828).
Type: 'Crescit in umbrosis montis Burangrang Javae', *C.L. von Blume s.n.* (L51025, holo.).

*Hymenasplenium obscurum* (Blume) Tagawa in Acta Phytotaxonomica et Geobotanica 7,2: 83 (1938a).

*A. serriforme* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 163 (1859b), as '*serraeforme*'.
Type: unknown.

Distribution: Madagascar, Malawi, Mozambique, South Africa, Tanzania, Zimbabwe.

**Asplenium obtusatum** *G.Forst.*, Florulae insularum australium prodromus: 80 (Oct.–Nov. 1786b), subsp. **obtusatum**.
Type: New Zealand, *G. & J.R. Forster s.n.* (BM, lecto.), designated by Brownsey (1977: 47).

*A. crassum* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 33, 34 (Oct. 1808).
Type: Tristan da Cunha, *L.-M.A. du Petit-Thouars s.n.* (P00482992!, holo.).

*A. obtusatum* G.Forst. var. *crassum* (Thouars) C.Chr. in Scientific Results of the Norwegian Antarctic Expedition 1927–1928 16: 12 (1937b).

*A. obliquum* sensu Carmich. in Transactions of the Linnean Society of London, Botany 12: 512 (1818).

Chromosome number: tetraploid, n = 72, 2n = 144 (Manton & Vida 1968: 364).

Distribution: Crozet Isl., Gough Isl., Inaccessible Isl., Middle Isl., Nightingale Isl., Stoltenhoff Isl., Tristan da Cunha.

**Asplenium onopteris** *L.*, Species plantarum 2: 1081 (1 May 1753).
Provenance: 'Habitat in Italia, Gallia'. Lectotype: Herb. Burser XX: 12 (UPS), designated by Fernandes (1983: 66).

*A. adiantum-nigrum* L. subsp. *onopteris* (L.) Heufl. in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 6: 310 (1856).

Chromosome number: diploid, n = 36 (Shivas 1969: 68; Meyer 1960: 138).

Distribution: Algeria, Libya, Morocco, Tunisia.

**Asplenium parvisorum** *Bonap.* in Notes Ptéridologiques 10: 184, 185 (18 Mar. 1920e).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 1 000 mètres d'altitude. Bois. Avril 1909', *H. Perrier de la Bâthie 7786* (P00482993!, P00482994!, syn.); Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Versant du Sambirano. Vers 1 000 mètres d'altitude. Bois. Terrestre. Avril 1909', *H. Perrier de la Bâthie 7812* (P00482995!, P00482996!, syn.).

Distribution: Madagascar.

**Asplenium paucifolium** *Bonap.* in Notes Ptéridologiques 4: 26, 27 (19 May 1917a), as '*paucifolia*'.
Type: 'Afrique équatorilae française. Région de Brazzaville. 1910', *Cervoni s.n.* (P00483053!, holo.; P00483054!, P00483055!, iso.).

Distribution: Congo.

**Asplenium pellucidum** *Lam.*, Encyclopédie méthodique. Botanique 2,1: 305, 306 (16 Oct. 1786), subsp. **pellucidum**.
Type: 'l'Isle de France', *P. Commerson s.n.* (not located).

*A. plumosum* Bory ex Willd., Species plantarum, edn 4, 5,1: 323 (25–27 Jun. 1810).
Type: 'Habitat in insulae Mauritii arboribus magnis', *J.B.G.M. Bory de Saint-Vincent s.n.* (B-W19898-01 0, holo.; P00483012!, iso.).

*A. setosum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 322 (1811).
Type: 'Habitat in Madagascaria', *sine coll. s.n.* (?P, holo.).

*A. lunulatum* Sw. var. *setosum* (Desv.) Kuhn, Filices africanae: 106 (Oct. 1868), as '*setosa*'.

*A. hirtum* Kaulf., Enumeratio filicum: 169 (Oct. 1824).
Type: 'Habitat in Guahan', *Chamisso s.n.* (not located).

*A. fissidens* Bory in Voyage aux Indes Orientales. Botanique 2,1: 39 (25 May 1833).
Type: "l'île de France" & "de Mascaregne", *C.P. Bélanger s.n.* (P00483013, P00483014!, P00483037!, syn.).

Distribution: Comoro Isl. (Anjouan, Grande Comore), Madagascar, Mauritius, Réunion, Rodrigues Isl., Seychelles.

**Asplenium pellucidum** *Lam.* subsp. **dareifolium** *(Bory ex Willd.) J.P.Roux*, comb. et stat. nov.

*A. dareifolium* Bory ex Willd., Species plantarum, edn 4, 5,1: 335, 336 (25–27 Jun. 1810), as '*dareaefolium*'.
Type: "Ile Bourbon", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W19917-01 0, holo.; P00483016!, iso.).

*A. pellucidum* Lam. var. *dareifolium* (Bory ex Willd.) Tardieu in Notulae Systematicae (Paris) 16,1/2: 174 (Oct. 1960b), nom. nud., [McNeill *et al.* (2006), Art. 33.4], as '*dareaefolium*'.

*A. caenopteroides* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 276 (Jul. 1827), nom. nov. for *Asplenium dareifolium* Bory ex Willd. (1810: 335), nom. superfl.
Type: "Habitat in insula Borboniae sylvis", *sine coll. s.n.* (P00483015, holo.).

*A. boivinii* Mett. ex Kuhn, Filices africanae: 98 (Oct. 1868), as '*boivini*'.
Type: 'Ins. Borboniae', *L.H. Boivin s.n.* (P00483017!, ?iso.).

*A. pseudopellucidum* Bonap. var. *nana* Bonap. in Notes Ptéridologiques 4: 28 (19 May 1917a).
Type: 'Iles Comores. Environs de Nioumbadjou. 400 à 500 mètres d'altitude, Avril 1911', *L. Humblot s.n.* (P00216959!, holo.).

Distribution: Réunion.

**Asplenium pellucidum** *Lam.* subsp. **pseudohorridum** *(Hieron.) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 208 (1967).

*A. protensum* Schrad. var. *pseudohorrida* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 82 (Jun. 1895).
Type: "Usambara, Gonja, 1 030 m, 1.9.93", *C.H.E.W. Holst 4236* (B20 0020449, syn.), *C.H.E.W. Holst 4269a* (B, syn.); 'Deutsch-Ostafrika: von dem Bäumen herabhängend im Urwalde bei Kwa Kibniassi unweit Nderema, 23/02/1893', *C.H.E.W. Holst 2253* (B20 0020446, K, syn.).

*A. pseudohorridum* (Hieron.) Hieron. in Botanische Jahrbücher 46,3: 362, 363 (1911).

Distribution: Mozambique, Tanzania, Zimbabwe.

**Asplenium peteri** *Bech.* in Bericht der Schweizerischen Botanischen Gesellschaft 38: 180 (1929).
Type: Type: 'DOAfr., MlingaGbge: Magila—Magrotto', *A. Peter 39946* (B20 0016869!, holo.; GOET, iso.).

*A. lanceolatum* Peter in Feddes Repertorium, Beiheft 40,1: 72, Anhang: 5, t. V, fig. 3 (1929), non Huds. (1778: 454, 455), nec Forssk. (1775: 185).
Type: 'DOAfr., MlingaGbge: Magila—Magrotto', *A. Peter 39946* (B20 0016869!, holo.; GOET, iso.).

Distribution: Kenya, Tanzania.

**Asplenium petiolulatum** *Mett. ex Kuhn* in Filices africanae: 110 (Oct. 1868).
Type: 'Ins. Borboniae', *L.H. Boivin s.n.* (?P, holo.).

*A. avicula* Cordem., Flore de l'Ile de la Réunion: 63 (1895).
Type: Réunion. 'Rempart d'Orère et de la rivière Saint-Denis. Cilaos.' *J.D. de Cordemoy 145* (P00483020!, syn.).

*A. longicaudatum* Bonap. in Notes Ptéridologiques 4: 71, 72 (19 May 1917b), as '*longicaudata*'.
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Epiphyte dans la forêt d'Analamazoatra, vers 800 mètres d'altitude. Décembre', *H. Perrier de la Bâthie 6119* (P?, syn.; BM!, iso.).

Distribution: Comoro Isl. (Anjouan, Grande Comore), Madagascar, Réunion.

**Asplenium petrarchae** *(Guérin) DC.* in Flore françoise, edn 3, 4,1: 238 (1815a), subsp. **petrarchae**.

*Polypodium petrarchae* Guérin, Description de la fontaine de Vaucluse, edn 2, 1: 124 (1804).
Type: unknown to current author.

*A. glandulosum* Loisel., Notice sur les plantes à ajouter à la flore de France: 145 (Oct. 1810).
Type: unknown to current author.

Chromosome number: tetraploid, 2n = 144 (Manton 1950: 304).

Distribution: Algeria, Morocco, Tunisia.

**Asplenium phillipsianum** *(Kümmerle) Bir, Fraser-Jenk. & Lovis* in Fern Gazette 13,1: 62 (1985).

*Ceterach phillipsianum* Kümmerle in Botanikai Közlemények 8: 287 (1909).
Type: 'Ferns from deep shade Wagga Mountain, anno 1897', *E.L. Phillips s.n.* (BM, holo.; K, iso.).

Chromosome number: the species is a sexual tetraploid based on n = 72 (Bir *et al.* 1985: 62).

Distribution: Socotra.

**Asplenium platybasis** *Kunze ex Mett.* in Abhandlungen Herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 121, 199 (1859b), var. **platybasis**.
Type: St Helena, *Mertens s.n.* (LZ†).

*A. firmum* Fée, Cinquième mémoires sur la famille des fougères 5: 197 (1852), non *A. firmum* Kunze (1845b: 283).
Type: 'Habitat in insulâ Sanctâ Helenâ', *R.K. Greville s.n.* (Herb. Clar. Mougeot).

*A. falcatum* Lam. var. *firmum* (Fée) T.Moore, Index filicum 2,11: 129 (1859b).

*A. falcatum* sensu Roxb. in Tracts relative to the island of St Helena: 299 (Jan. 1816).

Distribution: St Helena.

**Asplenium platybasis** *Kunze ex Mett.* var. **subnudum** *C.Chr.* in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 15, fig. 1a (1940).
Type: 'Inaccessible: plateau near east end, alt. 300 m, in *Phylica* forest', *E. Christophersen 2501* (O!, holo.).

*A. polyodon* sensu J.P.Roux in Journal of South African Botany 47,2: 143 (1981), non G.Forst. (1786b: 80).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

**Asplenium platyneuron** *(L.) Britton, Sterns & Poggenb.*, Preliminary catalogue of Anthophyta and Pteridophyta reported as growing spontaneously within one hundred miles of New York City: 73 (25 Apr. 1888).

*Acrostichum platyneuron* L., Species plantarum 2: 1069, 1070 (1 May 1753).
Provenance: 'Habitat in Virginia'. Lectotype: *Clayton 14* (BM000062962), designated by Fernald (1935: 383).

*Chamaefilix platyneuron* (L.) Farw. in The American Midland Naturalist 12,8: 269, 270 (Mar. 1931).

*Tarachia platyneuron* (L.) Momose in Journal of Japanese Botany 35,11: 324 (Nov. 1960).

*Asplenium ebeneum* sensu Sim, The ferns of South Africa: 134, pl. LXII (1892).

Distribution: Lesotho, South Africa.

**Asplenium pocsii** *Pic.Serm*. in Webbia 27,2: 432, 434, fig. 16 [1972] (28 Feb. 1973a).
Type: 'Tanzania, T6, Morogoro Region: Uluguru Mts., Eastern slope of Bondwa, alt. 1 650–2 000 m. High altitude wet evergreen forest. Terrestrial or epiphytic; leaves always simple, fleshy. Common. 26.IX.1970', *R.B. Faden 70/631* (FI-PS 26151, holo.; EA, K, iso.).

Distribution: Tanzania.

**Asplenium polyodon** *G.Forst*., Florulae insularum australium prodromus: 80 (Oct.–Nov. 1786b).
Type: none designated.

*Trichomanes adiantoides* L., Species plantarum 2: 1098 (1 May 1753).
Provenance: 'Habitat in India, Africa', *sine coll. s.n.* Type: None designated.

*A. adiantoides* (L.) C.Chr., Index filicum: 99 (1 Jul. 1905).

*A. falcatum* Lam., Encyclopédie méthodique. Botanique 2,1: 306 (16 Oct. 1786).
Type: 'l'Isle de France', *P. Commerson s.n.* (not located).

*A. intermedium* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 84 (Jan. 1827).
Type: "Il Maurit.", *F.W. Sieber*, Syn. fil. exc. 68 (B20 0016410, holo.).

*A. falcatum* sensu Balf.f. in Philosophical Transactions of the Royal Society of London 168: 387 (1879).

Distribution: Comoro Isl. (Anjouan, Grande Comore, Mayotte), Madagascar, Mauritius, Réunion Rodrigues Isl.

**Asplenium poolii** *Baker* in Journal of the Linnean Society, Botany 15: 416 (1876b).
Type: "Antananarivo, Madagascar", *W. Pool s.n.* (K000423990!, holo.).

*A. linearipinnatum* Bonap. in Notes Ptéridologiques 5: 90 (10 Dec. 1917e), as '*linearipinnata*'.
Type: Madagascar. 'Province d'Andovoranto. District de Moramanga. Forêt d'Analamazaotra. Sans date', *R. Viguier & H. Humbert 861* (P?, holo.; P00482997!, P00482998, iso.).

*A. poolii* Baker var. *linearipinnatum* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 41 (Feb. 1932a).

*A. pachysorum* Baker f. *simplex* C.Chr. in Archives de Botanique, Bulletin Mensuel 2,12: 211 (1928).
Type: Madagascar. 'Chaîne du Vohibory, à l'Ouest d'Ivohibe', *H. Humbert 3093* (P?, holo.; BM!, iso.).

*A. poolii* Baker f. *simplex* (C.Chr.) C.Chr. in Dansk Botanisk Arkiv 7: 91, pl. 32, fig. 1 (Oct. 1932b).
Type: as for A. *pachysorum* Baker f. *simplex* C.Chr.

*A. flaccidum* sensu Bonap. in Notes ptéridologiques 16: 60 (14 Apr. 1925a), non G.Forst. (1786b: 80).

Distribution: Madagascar, Réunion.

**Asplenium praegracile** *Rosenst*. in Feddes Repertorium 6: 177, 178 (1909).
Type: 'Africa orientalis germanica: in monte Kilimanjaro, 3 000 m alt., 1906', *P. Daubenberger s.n.* (S, holo.; P00477820!, P00483583!, iso.).

Distribution: Kenya, Madagascar, Tanzania, Uganda.

**Asplenium preussii** *Hieron. ex Brause* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 9, 10, t. 10D (Dec. 1910).
Type: 'Großer Kamerun-Berg, an Baumstämmen und feuchten Felsen an schattigen Stellen bei Buea, 800–1 600 m ü. M. (Jan. 1891)', *P.R. Preuss 584* (B20 0020294!, lecto.), designated by Tardieu (1964a: 222); (B20 00202293, isolecto.); "Gr. Kamerun Berge, Musake über Buëa, 1600 m an mossischen Stämmen", *G.W.J. Mildbraed 3463* (P000477888!, syn.).

*A. pseudoauriculatum* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 206, 207 (1967).
Type: 'Mozambique, Manica & Sofala, Garuso, Jaegersberg, 3600 ft, 11.vii.1955', *E.A.C.L.E. Schelpe 5626* (BOL128063!, holo.; BM, iso.).

*A. preussii* Hieron. subsp. *austroafricana* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 208 (1967).
Type: 'Natal, nKandhla forest, 19.vi.1946', *E.A.C.L.E. Schelpe 1688* (BOL, holo.).

*A. thunbergii* sensu Sim, The ferns of South Africa: 157, pl. LXXXII (1892), non *A. thunbergii* Kunze (1836: 517).

*A. auriculatum* sensu Sim, The ferns of South Africa, edn 2: 167, 168, pl. 68 (1915), non *A. auriculatum* (Thunb.) Kuhn (1868: 97).

Distribution: Bioko, Burundi, Cameroon, Congo, DRC, Ethiopia, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Asplenium prionitis** *Kunze* in Linnaea 10: 511 (1836).
Type: "Inter Omtendo et Omsamculo, in nervose umbroso, sub 400 p., 1838", *J.F. Drège s.n.* (LZ†; BM!, lecto.), designated by Schelpe & Anthony (1986: 175); (B!, HBG, K000423974!, K000423975!, isolecto.).

*A. dufourii* Fée, Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 26, t. 35, fig. 1 (1866a).
Type: 'Habitat in insula Borbonica', *J.B.G.M. Bory de St.-Vincent s.n.* (?P, holo.).

*A. pachysorum* C.Chr. in Dansk Botanisk Arkiv 7: 92, pl. 33, fig. 6 (Oct. 1932b), non Baker (1891b: 4).
Type: 'Be Kilus Mts.', *J.T. Last s.n.* (K?, holo.); 'Massif de Beampingaratra', *H. Humbert 6421* (not located); 'Environs de Fort Dauphin', *H. Humbert 5809* (not located).

Distribution: Comoro Isl. (Anjouan), Madagascar, Mauritius, Réunion, South Africa.

**Asplenium protensum** *Schrad*. in Göttingische Gelehrte Anzeigen 1818: 916 (1818).
Type: Cape, *C.H.F. Hesse s.n.* (LE?, holo.).

*A. protensum* Schrad. var. *pseudohorridum* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 82 (Jun. 1895).
Type: "Nderema; Kwa Kiniassi, Ostafrika. 23.II.1893", *C.H.E.W. Holst 2253* (B20 0020446, K000423894!, syn.); Sine loc., *C.H.E.W. Holst 4236* (not located); "Sonja. Bulua-Wald, 1000 m. ü. M. Urwald, 3/IX/93", *C.H.E.W. Holst 4269a* (B20 0020445, K!, LE, P00483586!, P00483597!, syn.).

Chromosome number: n = ± 144 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore), DRC, Eritrea, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Nigeria,

Réunion, Rwanda, São Tomé, Somalia, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium pseudopellucidum** *Bonap*. in Notes Ptéridologiques 4: 27, 28 (19 May 1917a).
Type: 'Iles Comores. Environs de Nioumbadjou. 400 à 500 mètres d'altitude. Première quinzaine d'Avril 1911', *L. Humblot s.n.* (P00216956!, holo.; K000423984!, K000423985!, P00216957!, P00216958!, iso.).

*A. crinulosum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 272 (Jul. 1827).
Type: 'Crescit in fruticetis Madagascariae', *sine coll. s.n.* (?P, holo.).

*Darea pteridis* Bory in Voyage aux Indes Orientales. Botanique 2,1: 52 (25 May 1833).
Type: 'a découvert cette belle espéce a l'ile Maurice', *C.P. Bélanger s.n*. (not located).

*A. decipiens* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 71 (Aug.–Sep. 1879), non Mett. (1859b: 195).
Type: 'Johanna im Schatten der Wälder an Baumstämmen', *J.M. Hildebrandt 1773* (B?, holo.; BM!, iso.).

*A. pellucidum* Lam. var. *bidentata* Bonap. in Notes Ptéridologiques 5: 60 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique du Sambirano. Massif du Manongarivo. Forêts des environs de Bekalony. Sur les troncs. Vers 2 000 mètres. Mars 1909', *H. Perrier de la Bâthie 7816*, p.p. (P00483059!, P00483060!, syn.); Madagascar. 'Région floristique du Sambirano. Massif de Manongarivo. Versant du Sambirano. Vers 200 mètres d'altitude. Avril 1909', *H. Perrier de la Bâthie 7816*, p.p. (P00483056!, P00483057!, P00483058!, syn.).

Distribution: Madagascar, Comores (Johanna Isl.).

**Asplenium pumilum** *Sw*., Nova genera & species plantarum. Prodromus: 129 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n.* (S!, holo.).

*A. pumilum* Sw. var. *hymenophylloides* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 54, t. 15, fig. 4 (1857a).
Type: 'Habitat in Abyssinia. Ambasea, ad altitud. 2000 mtr.', *A.F.W. Schimper s.n*. (W, iso., not found by me).

*A. pumilum* Sw. subsp. *hymenophylloides* (Fée) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 210 (1967).

*A. eylesii* Sim, The ferns of South Africa, edn 2: 147, pl. 61, fig. 2 (1915).
Type: 'Rhodesia, in monte Ironmask, Mazoe, 4500 ped. Jan. 1909', *E. Eyles 564* (Herb. Eyles 90564) (PRE0752426-0!, holo.; SRGH!, iso.).

Distribution: Burundi, Ethiopia, Madagascar, Malawi, Sudan, Tanzania, Zambia, Zimbabwe.

**Asplenium reekmansii** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 55,1/2: 148, fig. 2 (1985a).
Type: 'Burundi, Prov. Bururi, pont Mulembwe Burambi (3°50'S-29°40'E), 1 900 m, galarie forestière dégradée, rochers humides, 14.V.1976', *M. Reekmans 5122* (GENT, holo.; BR, FI-PS, LG, iso.).

Distribution: Burundi.

**Asplenium rukararense** *Brause* in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 12, 13, t. II, figs D, E (Dec. 1910).
Type: 'Rugege-Wald: Quellgebiet des Rukarara, im Bergwald ± 1 900 m ü. M. Aug. 1907', *G.W.J. Mildbraed 922* (B20 0020851!, holo.; P00483004!, iso.).

Distribution: Burundi, Rwanda.

**Asplenium ruta-muraria** *L*., Species plantarum 2: 1081 (1 May 1753).
Provenance: 'Habitat in Europa ex rupium fissuris'. Lectotype: Herb Linn. 1250.18 (LINN), designated by Reichstein (1981: 105).

*Scolopendrium alternifolium* Roth *β brevifolium* Roth, Tentamen florae germanicae 3,1,1: 54 (Jun.–Sep. 1799).
Type: unknown to current author.

*A. ruta-muraria* L. var. *brevifolium* (Roth) Heufl. in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 6: 335 (1856).

*A. ruta-muraria* L. var. *angustifolium* Haller ex H.Christ in Hedwigia 42: 159 (1903a).
Type: Sine loc., *sine coll. s.n.* (G?, holo.).

*A. ruta-muraria* L. var. *subcuneifolium* H.Christ in Hedwigia 42: 167 (1903a).
Type: unknown to current author.

Chromosome number: tetraploid, 2n = 144 (Manton 1950: 144; Lovis & Reichstein 1964: 143).

Distribution: Algeria, Morocco.

**Asplenium rutifolium** *(P.J.Bergius) Kunze* in Linnaea 10: 521 (1836), as '*rutaefolium*'.

*Caenopteris rutifolia* P.J.Bergius in Acta Academiae Scientiarum Imperialis Petropolitanae 6,2: 249 (1786), as '*rutaefolia*'.
Type: "e Cap b. Spei", *C.P. Thunberg s.n.* (SBT1.2.1.53!, holo.).

*Lonchitis bipinnata* Forssk., Flora aegyptico-arabica CXXIV, 184 (1 Oct. 1775).
Type: Yemen: inter Bolghose et Mokhaja, 03/1763, *P. Forsskål 810* (C!, holo.).

*Asplenium bipinnatum* (Forssk.) C.Chr. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 11 (Dec. 1910).

*Asplenium rutifolium* (P.J.Bergius) Kunze var. *bipinnatum* (Forssk.) Schelpe in Journal of South African Botany 30,4: 194 (1964).

*C. furcata* P.J.Bergius in Acta Academiae Scientiarum Imperialis Petropolitanae 6,2: 249, t. 7, fig. 1 (1786).
Type: "ex Isle de Bourbone", *P. Sonnerat per A. Thouin s.n.* (SBT1.2.1.52!, holo.).

*Adiantum achilleifolium* Lam. in Encyclopédie méthodique. Botanique 1,1: 43 (2 Dec. 1783), as '*achillaeafolium*'.
Type: 'Cap de Bonne-Espérance', *sine coll. s.n*. (not located).

*Asplenium achilleifolium* (Lam.) C.Chr., Index filicum: 99 (1 Jul. 1905), non Liebm. (1849: 97, 98).

*Adiantum borbonicum* Jacq., Collectanea 3: 286, pl. 21, fig. 1 [1789] (1791).
Type: 'Crescit in insula Borboniae', *sine coll. s.n.* (P?, holo.).

*Asplenium borbonicum* (Jacq.) Hook., Species filicum 3,10/12: 207 (Nov. 1859–Apr. 1860).

*Darea disticha* Kaulf., Enumeratio filicum: 180 (1824), nom. illeg.
Type: as for *Lonchitis bipinnata* Forssk.

*C. disticha* Spreng., Systema vegetabilium, edn 16, 4,1: 91 (1827).

*Asplenium distichum* (Kaulf.) Mett. ex Salomon, Nomenclator der Gefässkryptogamen: 84 (1883).

*D. stans* Bory in Voyage aux Indes Orientales. Botanique 2,1: 53 (25 May 1833).
Type: 'L'ile Maurice et Java, a terre, par touffes', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483546!, holo.).

*Asplenium bipinnatum* C.Chr. var. *stans* (Kunze) Bonap. in Notes Ptéridologiques 16: 59 (14 Apr. 1925a).

*Asplenium stans* (Bory) Kunze in Linnaea 10: 521 (1836).

*Asplenium subdigitatum* Mett. ex Kuhn, Filices africanae: 117 (Oct. 1868), nom. nov. for *Darea palmata* Kaulf. (1824: 181), non *Asplenium palmatum* Lam. (1786: 302).

*D. palmata* Kaulf., Enumeratio filicum: 181 (Oct. 1824).
Type: 'Habitat in insula Mauritii', *sine coll. s.n.* (not located).
Note: the position of this name is uncertain.

*Asplenium linearilobum* Peter in Feddes Repertorium, Beiheft 40,1: 80, Anhang: 8, t. II, figs 7, 8 (1929), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'DOAfr., Wusambara: Manolo—Mtai 1760' *A. Peter 4196c* (B, syn.); 'SPareGbge: Makania—Wudee unter Felsen 750–1345', *A. Peter 41361* (not located).

*Asplenium achilleifolium* C.Chr. var. *rutifolium* sensu Bonap. in Notes Ptéridologiques 14: 223 (23 Nov. 1923a), as '*rutaefolium*'.

*Asplenium strangeanum* Pic.Serm. in Webbia 32,1: 83, fig. 4 (1977c).
Type: 'Kenya k 4: Rather 'weeping' light green tufted fern to 25 cms tall. Short erect rootstock. Only one frond. Pocket of red soil on a rock about 15 m. above the river. Soil dry. Little shade. Rai: ± 10 250 mm [sic!] p.a. Chania River, Kiambu, nr. Nairobi 1 650 meters. Sept. 1964', *M. Strange 59* (FI-PS 22648, holo.).

Distribution: Comoro Isl. (Grande Comore), DRC, Kenya, Madagascar, Malawi, Mozambique, Rwanda, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Asplenium rutshuruense** *Taton ex Pic.Serm.* in Webbia 32,1: 81, fig. 3 (1977c).
Type: 'Zaïre: Rutschru, galerie forest, bords Rutshuru. Sol ombragé. 23.X.1914', *J.C.C. Bequaert 6077* (BR, holo.; BR, iso.).

Distribution: DRC.

**Asplenium ruwenzoriense** *Baker* in Bulletin of miscellaneous information, Royal Gardens, Kew 1900: 137 (1901).
Type: 'British East Africa. Uganda; Ruwenzori, common in forest, Huata, alt. 6000–8000 ft.', *G.F. Schott-Elliot 7706* (K000423901!, holo.).

Distribution: Sudan, Uganda.

**Asplenium sandersonii** *Hook.*, Species filicum 3,10/12: 147, pl. 179 (Nov. 1859–Apr. 1860), as '*sandersoni*'.
Type: 'Ravine in Fields Hill, Natal', *J. Sanderson s.n.* (K, holo.).

*A. debile* Mett. ex Kuhn, Filices africanae: 101 (Oct. 1868), non Fée (1866a: 28).
Type: 'Ins. Comorae', *L.H. Boivin s.n.* (W?, holo.).

*A. comorense* C.Chr., Index filicum: 105 (1 Jul. 1905), nom. nov. for *Asplenium debile* Mett. ex Kuhn (1868: 101), non Fée (1866a: 28).

*A. melleri* Mett. ex Kuhn, Filices africanae: 106, 107 (Oct. 1868).
Type: 'Madagascaria', *C.J. Meller s.n.* (K, holo.).

*A. punctatum* Mett. ex Kuhn, Filices africanae: 114 (Oct. 1868).
Type: 'Africa occidentalis tropica; ins. St Thomae', *G. Mann s.n.* (K, holo.).

*A. vagans* Baker in Synopsis filicum 5: 195 (8 Jul. 1867c), p.p.
Type: 'Island of St Thomas, West Tropical Africa', *G. Mann s.n.* (?K, syn.); 'Madagascar', *C.J. Meller s.n.* (K, syn.).

*A. sandersonii* Hook. var. *vagans* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 93, pl. 32, figs 4, 5 (Oct. 1932b).

*A. sandersonii* Hook. var. *subcoriacea* Luerss. in Adhandlungen herausgegeben vom Naturwissenschaftlichen Vereine zu Bremen 7: 47 (1882).
Type: 'Auf Baumstämmen häufig bei Antsampandrava, 14 Novbr. 1877', *D.C. Rutenburg s.n.* (not located).

*A. hanningtonii* Baker in Journal of Botany, British and Foreign 1883: 245 (1883b).
Type: Tanzania, Usafwa Mountains, *Hannington s.n.* comm. 1/83 *Mitten* (K, holo.).

Chromosome number: n = 72 (Manton 1959: 80).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan, Grande Comore), DRC, Equatorial Guinea, Ethiopia, Gabon, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Asplenium schelpei** *A.F.Braithw.* in Journal of South African Botany 38,1: 2 (Jan. 1972a).
Type: 'South Africa, Transvaal, Pilgrims Rest Division, New Chum falls nr. Pilgrims Rest. In rock crevices above the falls, 27/12/60', *A.F. Braithwaite 140* (BM128062!, holo.; BOL!, iso.).

Distribution: South Africa, Zimbabwe.

**Asplenium schnellii** *Tardieu* in Notulae Systematicae (Paris) 13,4: 370, pl. 1, figs 5, 6 (1948c).
Type: 'Monts Nimba, crête orientale vers 1 500 m. fév. 1942', *R.A.A. Schnell 450* (P00483000!, holo.; P00483556!, P00483557!, P00483558!, iso.).

Distribution: Liberia.

**Asplenium schweinfurthii** *Baker* in Transactions of the Royal Society of Edinburgh 31: 328, t. 100 (1888a).
Type: 'Socotra', *G. Schweinfurth 663* (K000423907!, holo.).

Distribution: Socotra, Sudan.

**Asplenium scolopendrium** *L.*, Species plantarum 2: 1079 (1 May 1753).
Provenance: 'Habitat in Europae umbrosis, nemorosis, saxosis'. Lectotype: *Loefling s.n.* Herb. Linn. 1250.3 (LINN), designated by Reichstein (1981: 106).

*Phyllitis scolopendrium* (L.) Newman, A history of British ferns, edn 2: 10 (Oct. 1844).

*Scolopendrium vulgare* Sm. in Mémoires de l'Académie Royale des Sciences de Turin 5: 421, fig. 2 (1793).
Type: unknown to current author.

Chromosome number: diploid, 2n = 72 (Manton 1950: 303).

Distribution: Algeria, Libya, Morocco, Tunisia.

**Asplenium sebungweense** *J.E.Burrows* in Bothalia 19: 173 (1989).
Type: 'Zimbabwe, tributry of Busi River, 12 km NE of Lusulu, Grid Ref. NL. 976095', *Craig, Mahlangu & J.E. Burrows 8* (PRE0726449-0, holo.; Sengwa Herb., iso.).

Distribution: Zambia, Zimbabwe.

**Asplenium seelosii** *Leyb*. subsp. **glabrum** *(Litard. & Maire) Rothm.* in Flora de Catalunya 6: 339 [1936] (1937).

*A. seelosii* Leyb. var. *glabrum* Litard. & Maire in Bulletin de la Société des Sciences Naturelles du Maroc 8: 143 (1929).
Type: 'In fissuris rupium calcarearum cacuminis Lalla-Oum-el-Bent montis Tichchoukt Atlantis Medii, ad alt. 2 800–2 850 m, 1927', *Emberger & R. Maire s.n.* (not located).

*A. celtibericum* Rivas Mart. in Bulletin du Jardin Botanique National de Belgique 37,3: 329–334 (1967).
Type: Guadalajara, Pinar de Campisábalos, alt. 1 340 m, *M. Rivas Martínez, J. Mayor, Izco & M. Ladero s.n.* (BCF4997, holo.; BM!, MAF124918, MAF120000, MA202115, iso.).

*A. seelosii* Leyb. subsp. *glabrum* (Litard. & Maire) Maire var. *celtibericum* (Rivas Mart.) Bolòs & Vigo in Memoires de l'Institució Catalana d'Historia Natural 1: 64 (1974).

*A. seelosii* Leyb. subsp. *celtibericum* (Rivas Mart.) Montserrat in Anales del Instituto Botánico A.J. Cavanilles 32,2: 397 (1975).

Chromosome number: diploid, 2n = 72 (Meyer 1967).

Distribution: Morocco.

**Asplenium septentrionale** *(L.) Hoffm*., Deutschland Flora 2: 12 (1795).

*Acrostichum septentrionale* L., Species plantarum 2: 1068 (1 May 1753).
Provenance: 'Habitat in Europae fissuris rupium'. Lectotype: Herb. Burser XX: 37 (UPS) designated by Jonsell & Jarvis (1994: 150).

Distribution: Morocco.

**Asplenium setularioides** *Baker* in Transactions of the Linnean Society of London, Botany, ser. 2, 2,15: 354 (1887b).
Type: 'Kilima-njaro, in locis aquosis. 9000 ad 13000 pedes, frequens', *H.H. Johnston 26* (K, holo.).

Distribution: Rwanda, Tanzania, Uganda.

**Asplenium simii** *A.F.Braithw. & Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 209 (1967).
Type: "Rhodesia, Vumba Mtns., Umtali District, Elephants Forest, epiphytic on tree bole 12 ft from forest floor, 5300 ft, 28/12/1954", *N.C. Chase 6274* (BOL128061!, holo.; SRGH!, iso.).

*A. cuneatum* Lam. var. *angustatum* Sim, The ferns of South Africa: 152, pl. LXXVIII, fig. 2 (1892).
Type: Knysna Forest, *H. Barkly s.n.* (SAM0050586-0!, holo.).

*A. splendens* Kunze var. *angustatum* (Sim) C.Chr. in Dansk Botanisk Arkiv 7: 100 (Oct. 1932b).

Distribution: Malawi, Mozambique, South Africa, Zimbabwe.

**Asplenium smedsii** *Pic.Serm*. in Webbia 32,1: 60, figs 2, 3 (1977b).
Type: 'Ethiopia, Shashamane Distr., ± 1 550 m. Road to Adabba. High, epiphytic on tree overhanging small watercourse. Nov. 1971', *G.J. de Joncheere ETS 50* (FI-PS 26870, holo.).

Distribution: Burundi, DRC, Ethiopia, Kenya, Malawi, Rwanda, Sudan, Tanzania, Uganda.

**Asplenium splendens** *Kunze* in Linnaea 10: 516 (1836), subsp. **splendens**.
Type: Karakakama and Katrivier, *C.F. Ecklon, & C.L.P. Zeyher s.n.* (LZ†, holo.; S, lecto.), designated by Schelpe & Anthony (1986: 201); 'Omsamwubo', *J.F. Drège s.n*. (B20 0023074, B20 0023075, syn.).

*Tarachia splendens* (Kunze) C.Presl, Epimeliae botanicae: 83 (1851).

*A. cuneatum* Lam. var. *splendens* (Kunze) Sim, The ferns of South Africa, edn 2: 161, 162, pl. 64, fig. 2 (1915).

Distribution: South Africa, Swaziland.

**Asplenium splendens** *Kunze* subsp. **drakensbergense** *A.F.Braithw*. in Journal of South African Botany 38,1: 14, t. 1, figs g–i; t. 2, fig. c (1972b).
Type: 'Impendhle, Natal, South Africa. Nr. waterfall ± 5000'. June 1961', *D. Edwards s.n.* (BM, holo.; BOL128060!, iso.).

Distribution: Lesotho, South Africa.

**Asplenium staudtii** *Hieron*. in Botanische Jahrbücher 46,3: 356, 357 (1911).
Type: 'Kamerun: an feuchten schattigen Stellen am Erdboden und an Baumstämmen bei Lolodorf im Bezirk Kribi, 24 März 1895', *A. Staudt 180* (B20 0023149, holo.; K000423917!, P00483001, P00483002!, iso.).

Distribution: Cameroon, DRC.

**Asplenium stipicellatum** *Pic.Serm*. in Webbia 32,1: 63, fig. 4 (1977b).
Type: 'Ethiopia, Nord Sidamo: Ciabiccià a sud-est di Shasha-manne. Zona di Wando. Foresta umida sempreverde montana nella velle di Ano. Terrestre sui massi coperti di muschi, ne luoghi molto ombrosi ed umidi. 1 900–2 000 m. 11.Ott.1966', *R.E.G. Pichi Sermolli 6742* (FI-PS 23133, holo.).

Distribution: Ethiopia.

**Asplenium stoloniferum** *Bory*, Voyage dans les quatre principales îles des mers d'Afrique 1: 329 (Sep. 1804a).
Type: Réunion. Plaine de Chicots, *J.B.G.M. Bory de St.-Vincent s.n.* (P00483022!, holo.; BM, iso.).

*A. dentatum* Krauss ex Pappe & Rawson, Synopsis filicum Africae australis: 17 (Jan.–Jul. 1858), non L. (1759: 1323).
Type: 'Among rocks on the mountains of the Bosjesmansrand, Natal', *C.F.F. Krauss s.n.* (not located).

*A. kraussii* T.Moore ex Hook. in Synopsis filicum 4: 147, pl. CLXXX. A (22 Jan. 1867b).
Type: 'Boschman's Rand, Natal', *C.F.F. Krauss 25* (K000423977!, K000423980!, holo.; BM, iso.).

*A. delislei* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 301, 302 (Aug. 1891a).
Type: 'Bourbon', *M.G. de l'Isle 592* (K!, holo.; BM!, P00483021!, iso.).

Distribution: Lesotho, Réunion, South Africa.

**Asplenium stuhlmannii** *Hieron*. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 83 (Jun. 1895).
Type: 'Kassesse, Towalio im Westen des Vict.-Njansa, Bu.', *F. Stuhlmann 953* (B, lecto.; P00483003!, iso.), designated by Tardieu-Blot (1964b: 213).

*A. stuhlmannii* Hieron. var. *laciniata* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 83 (Jun. 1895).
Type: 'Gumango im Nyamnyamland', *G.A. Schweinfurth 3915* (B?, holo.; K000423906!, iso.).

*A. ramlowii* Hieron. in Botanische Jahrbücher 46,3: 372–374 (1911).
Type: 'Deutsch-Ostafrika: bei Tanga, vermutlich an Felsen, 1905', *Ramlow 16* (B20 0020701, holo.; P00482999!, iso.).

*A. subhemitomum* Brause in Botanische Jahrbücher 53: 383, 384 (1915).
Type: 'Westafrika: Fernando Poo, Nordseite des Pics von Sta. Isabel, oberhalb Basilé. Übergang zwischen oberen Tropenwald und Bergwald, Epiphyt, 800–1 000 m ü. M. August 1911', *G.W.J. Mildbraed 6441* (B20 0023230!, holo.; P00477796, iso.).

Chromosome number: n = 144 (Manton 1959: 80).

Distribution: Bioko, Burundi, Cote d'Ivoire, Guinea, Kenya, Liberia, Madagascar, Mozambique, Nigeria, Rwanda, Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium subintegrum** *C.Chr.*, Index filicum: 134 (20 Aug. 1905), nom. nov. for *Asplenium coriaceum* Baker (1867c: 192), non Bory (1833: 46).
Type: Cameroon Mountains, *G. Mann 1387* (BM, holo.).

*A. coriaceum* Baker in Synopsis filicum 5: 192 (8 Jul. 1867c), non Bory (1833: 46), nec Roxb. (1844: 497), nec Fée (1852: 193).
Type: 'Cameroon Mountains', *G. Mann s.n.* (not located).

*A. africanum* Desv. var. *linearifolium* G.Kunkel in Bericht der Schweizerischen Botanischen Gesellschaft 73: 188 (Dec. 1963d).
Type: 'Liberia: Epiphytisch auf einigen Bäumen am Ostufer des Cestos River (Eastern Province), 180 m', *G. Kunkel F-118* (Herb. Kunkel).

Distribution: Angola, Cameroon, Congo, Liberia.

**Asplenium sulcatum** *Lam.*, Encyclopédie méthodique. Botanique 2,1: 308 (16 Oct. 1786).
Type: 'l'Isle de Bourbon', *P. Commerson s.n.* (P, holo.; B20 0023245, fragm., iso.).

*Asplenium auritum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 52 (1801).
Type: Jamaica, *O. Swartz s.n.* (S, holo.).

*Adiantum martinii* Pirotta in Annali di Botanica. Rome. 8: 15, t. 12A (1903).

*Asplenium auritum* Sw. f. *nana* Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 228 (May 1958b), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar. 'Centr/Est: bords de torrents, entre Sandrangato et Anosibe', *R. Capuron et J.D. Léandri 1705 et 1708* (P?, syn.); 'foret d'Analamazaotra', *H. Perrier de la Bâthie 7536* (P?, syn.).

Distribution: DRC, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Tanzania, Uganda, Zimbabwe.

**Asplenium tenerum** *G.Forst.*, Florulae insularum australium prodromus: 80 (Oct.–Nov. 1786b).
Type: none designated.

*Asplenium complanatum* C.Chr. in Transactions of the Linnean Society of London, Botany 7,19: 416, 417, pl. 45, figs 1–3 (Nov. 1912).
Type: 'Silhouette', *J.S. Gardiner s.n.* (BM!, holo.; K000423987!, K000423988!, iso.).

Distribution: Seychelles (Silhouette).

**Asplenium tenuicaudatum** *Pic.Serm.* in Webbia 32,1: 85, fig. 5 (1977c).
Type: 'Zaïre (Congo): Dorsale ad ovest del lago Kivu. Montagne di Shamulamba: nella foresta della valletta aperta a sud-est nel versante orientale della cima a nord del rifugio del Groupe de Montagne du Kivu. Epifita a 4 metri dal suolo. 2 500 m. ca. 24.X.1953', *R.E.G. Pichi Sermolli 4468* (FI-PS 19468, holo.).

Distribution: DRC, Rwanda.

**Asplenium theciferum** *(Humb., Bonpl. & Kunth) Mett.* in Annales des Sciences Naturalles. Botanique. Paris, sér. 5, 2: 227 (1864a).

*Davallia thecifera* Kunth in Nova genera et species plantarum 1,1/2: 23 (29 Jan. 1816).
Type: "Venezuela, in monte Saraguen", *L. Humblot, & A.J.A. Bonpland s.n.* (P00220134, iso.).

*Loxoscaphe theciferum* (Humb., Bonpl. & Kunth) T.Moore, Index filicum 2,26: 302 (1861e).

*D. concinna* Schrad. in Göttingische Gelehrte Anzeigen 1818: 918 (1818).
Type: 'Capplant', *C.H.F. Hesse s.n.* (GOET!, holo.).

*L. concinna* (Schrad.) T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 227 (1853a).

*A. concinnum* (Schrad.) Kuhn, Filices africanae: 99 (Oct. 1868).

*L. theciferum* (Humb., Bonpl. & Kunth) T.Moore var. *concinnum* (Schrad.) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 36 (Aug.–Sep. 1879), as '*concinna*'.

*L. theciferum* (Humb., Bonpl. & Kunth) T.Moore subsp. *concinnum* (Schrad.) Pic.Serm. in Nuovo Giornale Botanico Italiano, ser. 2, 47,3: 622 (1940b).

*A. theciferum* (Humb., Bonpl. & Kunth) Mett. subsp. *concinnum* (Schrad.) Bonap. in Notes Ptéridologiques 15: 30 (25 Feb. 1924).

*A. theciferum* (Humb., Bonpl. & Kunth) Mett. var. *concinnum* (Schrad.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 210 (1967).

*D. campyloptera* Kunze in Linnaea 10: 544 (1836).
Type: 'In sylva ad Plettenbergsbaai sec. fl. Klein Boschrivier', *J.F. Drège s.n.* (LZ†, holo.).

*D. schimperi* Hook., Species filicum 1,4: 193, t. 50A (1 Jan. 1846).
Type: Ethiopia. "In truncis arborum prope Adesulam, 4 Sept. 1838", *A.F.W. Schimper 1184* (K000423903!, holo.).

*A. theciferum* (Humb., Bonpl. & Kunth) Mett. var. *schimperi* (Hook.) Pic.Serm. in Nuovo giornale botanica Italiano, ser. 2, 47,3: 622 (1940b).

*A. concinnum* (Schrad.) Kuhn var. *schimperi* (Hook.) Kuhn, Filices africanae: 100 (Oct. 1868).

*A. theciferum* sensu Sim, The ferns of South Africa, edn 2: 171, 172, pl. 72 (1915), non *A. theciferum* (Humb., Bonpl. & Kunth) Mett. (1864a: 227).

Chromosome number: n = ± 70 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl., DRC, Equatorial Guinea, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Asplenium thunbergii** *Kunze* in Linnaea 10: 517 (1836), nom. nov. for *Caenopteris auriculata* Thunb.
Type: "In Prom. b. Sp.", [in error, Schelpe 1963: 92], *C.P. Thunberg s.n.* (UPS-Thunb 24761!, holo.).

*Caenopteris auriculata* Thunb. in Acta Academiae Scientiarum Imperialis Petropolitanae 9: 159, t. E, fig. 2 (1795).
Type: "Ceylona", *C.P. Thunberg s.n.* (SBT1.2.1.54, iso.).

*Darea auriculata* (Thunb.) Willd., Species plantarum, edn 4, 5,1: 296 (25–27 Jun. 1810).

*A. auriculatum* (Thunb.) Kuhn, Filices africanae: 97 (Oct. 1868).
Notes: Schelpe (1963: 92) considers the Thunberg material conspecific with the SE Asian *Asplenium belangeri* (Bory) Kunze [= *Darea belangeri* Bory (1833: 51)]. This, however, is a later homonym of *A. belangeri* Bory (1833: 47). Moore (1857c: xlix; 1860a: 176) pointed this out and substituted the epithet with *veitchianum*, but Kunze (1848c: 176) had already described *Asplenium decorum*. This name was adopted by Sledge (1965: 277). *Asplenium thunbergii* Kunze predates *A. decorum* and should therefore be considered as the correct name. The species is close to, if not conspecific with *A. preussii* Hieron. ex Brause.

Distribution: Madagascar.

**Asplenium trichomanes** *L.*, Species plantarum: 1080 (1 May 1753), subsp. **trichomanes**.
Provenance: 'Habitat in Europae fissuris rupium', Lectotype: Herb. Burser XX: 14 (UPS), designated by Viane (1994: 150).

Chromosome number: diploid, 2n = 72 (Manton 1950: 304; Lovis 1964: 152).

Distribution: Algeria, Morocco, Somalia, Tunisia.

**Asplenium trichomanes** *L.* var. **pachyrachis** *(H.Christ) Lovis & Reichst.* in Willdenowia 10,1: 18 (1980).

*A. trichomanes* L. lusus *harovii* Milde sublusus *pachyrachis* H.Christ, Die Farnkräuter der Schweiz: 92 (Oct. 1900).
Type: "Hab. St Maurice, Erémitage Wallis 1891 Kneucker. Viotallo Tassino bei Lugano Wirtgen", *sine coll. s.n.* (P, holo.) (Lovis & Reichstein 1985: 188).

*A. csikii* Kümmerle & András. in Kümmerle, in Magyar Botanikai Lapok 21: 3 (1922).

Chromosome number: 2n = 144 (Sáez 2000: 41).

Distribution: Morocco.

**Asplenium trichomanes** *L.* subsp. **quadrivalens** *D.E.Mey. emend. Lovis* in Fern Gazette 9,5: 152 (1964).
Type: 'Germany, Bavaria: Kienberg by Ruhpolding', *D.E. Meyer s.n.* Living in culture (Hort. Berol.), as sporophytes nr. 42, 43, 47 and 82 (B?, not located).

*Chamaefilix trichomanes* (L.) Farw. in The American Midland Naturalist 12,8: 270 (Mar. 1931).

*A. anceps* Sol. ex Lowe in Transactions of the Cambridge Philosophical Society 4,1: 8 (1831).
Type: 'Hab. in Maderâ, vulgaris', *sine coll. s.n.* (not located).

*A. trichomanes* L. var. *genuinum* Willk. in Prodromus florae hispanicae 1,1: 6 (1861).
Type: 'Hispaniam, copiose in Cantabria', *H.M. Willkomm s.n.* (not located).

*A. germanicum* J.Cardoso in Brotéria 13: 99 (1915).

*A. trichomanes* L. f. *atlantidis* Bolle.
Note: Chevalier [1935: 324 (seors 1056)] ascribed this name to Bolle, but in spite of an extensive search, I was unable to locate the place of publication of this name.

Chromosome number: tetraploid, 2n = 144 (Manton 1950: 304; Lovis 1964: 152, 1977: 363).

Distribution: Algeria, Cape Verde Isl. (Sto. Antão), Ethiopia, Kenya, Lesotho, Morocco, Socotra, Somalia, South Africa, Tanzania, Tunisia, Uganda, Zimbabwe.

**Asplenium viride** *Huds.*, Flora anglica: 385 (Jan.–Jun. 1762).
Type: unknown to current author.

*A. trichomanes-ramosum* L., Species plantarum 2: 1082 (1 May 1753), nom. rej. (Zimmer & Greuter 1994: 303, 304; Zimmer 1999: 133).
Type: Herb. Burser, vol. XX: 16 (UPS, lecto.), designated by Jermy & Jarvis (1992: 321).

Distribution: Morocco.

**Asplenium tsaratananense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 53 (1956i).
Type: 'Massif du Tsaratanana et Haute vallée du Sambirano (Réserve Naturelle no. 4)', *H. Humbert 18177* (P00483005!, holo.; P00483006!, P00483007, iso.).

Distribution: Madagascar.

**Asplenium udzungwense** *Beentje*, Flora of tropical East Africa, Aspleniaceae: 41 (2008).
Type: 'Tanzania. Iringa District: Udzungwa Mts, above Sanje waterfalls, Nov. 1995', *de Boer, Bosch, Johns & Schippers 754* (K, holo.).

Distribution: Tanzania.

**Asplenium uhligii** *Hieron.* in Botanische Jahrbücher 46,3: 374, 375 (1911).
Type: 'Deutsch-Ostafrika: von Baumstämmen herabhängend oberhalb Moshi am Kilimandjaro, in einer Höhe von 2 100 m ü. M., (8. Okt. 1901)', *C. Uhlig 116* (B, missing, photo!, syn.; P, isosyn.); 'von der Decke einer niedrigen feuchten Höhle oberhalb des Urwaldes über Kiboscho am Kilimandjaro herabhängend, in 3 200 m Höhe ü. M., (24 Okt. 1901)', *C. Uhlig 194* (B20 0024534!, P00483008, syn.).

*A. kassneri* Hieron. in Botanische Jahrbücher 46,3: 376, 377 (1911).
Type: 'Oberer Congostaat: Stokes am Ruvenzori, im Oktober 1908', *T. Kässner 3114* (B, holo.; BM!, fragm., K000423913!, iso.).

*A. nigrocoloratum* Bonap. in Notes Ptéridologiques 16: 188, 189 (14 Apr. 1925b).
Type: Madagascar. 'Région floristique du Centre. Mont Tsaratanana. Vers 2 700 mètres d'altitude. Rocailles. Parmi les bruyères. Décembre 1912', *H. Perrier de la Bâthie 7966* (P00482964!, holo.; BM!, P00482965!, P00482966!, iso.).

Distribution: Cameroon, DRC, Kenya, Madagascar, Malawi, Nigeria, Réunion, Rwanda, Tanzania, Togo, Uganda, Zimbabwe.

**Asplenium unilaterale** *Lam.*, Encyclopédie méthodique. Botanique 2,1: 305 (16 Oct. 1786).
Type: 'l'Isle de France', *P. Commerson s.n.* (P, holo.).

*Hymenasplenium unilaterale* (Lam.) Hayata in The Botanical Magazine (Tokyo) 41: 712 (1927).

*Chamaefilix unilateralis* (Lam.) Farw. in The American Midland Naturalist 12,8: 271 (Mar. 1931).

*A. resectum* Sm., Plantarum icones hactenus ineditae 3: pl. 72 (May–Oct. 1791).
Type: unknown to current author.

*A. excisum* C.Presl, Epimeliae botanicae: 74 (1851).
Type: 'Habitat in insula Luzon', *H. Cuming*, pl. phil. no. 110 (Z000002036, iso.).

*A. unilaterale* Lam. f. *majus* C.Chr. in Bulletin of the Bernice P. Bishop Museum 177: 67 (1943), as forma '*major*'.
Type: 'Savaii: Salailua, 275 m', *E.H. Bryan 165* (syn., not located); 'Upolu: Tiavi', *K. Rechinger 1330* (syn., not located); 'Vaisingano Canyon, 500 m', *Christophersen 85* (syn., not located).

*A. unilaterale* Lam. var. *majus* (C.Chr.) Sledge in Bulletin of the British Museum (Natural History), Botany 3,6: 246 (1965).

*A. unilaterale* Lam. subsp. *africanum* G.Kunkel in Nova Hedwigia 17,1/4: 147 (1969a), nom. nud. [McNeill *et al.* (2006) Art. 37.1].

Chromosome number: n = 36–40 (Manton 1959: 80).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Comoro Isl. (Anjouan), Congo, Côte d'Ivoire, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Niger, Nigeria, Príncipe, Réunion, São Tomé, Seychelles, Sierra Leone, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

**Asplenium variabile** *Hook*., Species filicum 3,10/12: 93, pl. 185 (Nov. 1859–Apr. 1860).
Type: 'On trees in gloomy forests, Fernando Po', *C. Barter s.n*., in Baikie's Second Niger Expedition (K000423945!, holo.).

*A. gautieri* Hook., Species filicum 3,10/12: 88, pl. 184 (Nov. 1859–Apr. 1860).
Type: 'Island of Nissobé, between Madagascar and the eastern coast of Africa', *Gautier s.n.* (K000423996!, holo.).

*A. repandum* Mett. ex Kuhn, Filices africanae: 114 (Oct. 1868).
Type: 'Ins. Principis', *C. Barter 1910, G. Mann s.n*. (K?, syn.); 'Ad flumen Niger', *C. Barter s.n*., ex herb. Kew 505 (K?, syn.; BM!, syn.).

*A. efulense* Baker in Bulletin of Miscellaneous Information, Royal Botanic Gardens, Kew 1900: 137 [1900] (1901).
Type: 'Cameroons. Efulen', *G.L. Bates 217* (K000351100!, K000351101!, holo.).

*A. paucijugum* F.Ballard in Hooker's Icones Plantarum, ser. 5 3,4: pl. 3287 (1935).
Type: 'Gonja, virgin forest, Sept. 1893', *C.H.E.W. Holst 4246* (K000423902!, holo.).

*A. variabile* Hook. var. *paucijugum* (F.Ballard) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 7 (1956a).

*A. paucijugum* F.Ballard var. *simplex* G.Kunkel in Bericht der Schweizerischen Botanischen Gesellschaft 72: 43 (1962).
Type: 'Liberia: Häufig. Im Hochwald an Felsen nahe Bächen sowie an moosigen Baumstämmen an Bachrändern. Gefunden in den Totota Hils (170 m), im Gbi Forest (200 m), Loma Forest (350 m), Ostufer des Cestos River (210 m), Mt. Nimba (1 000 m)', *G. Kunkel F-115* (not located).

*A. paucijugum* F.Ballard var. *longistipitatum* G.Kunkel in Nova Hedwigia 17,1/4: 137 (1969a).
Type: 'Liberia. Grebo Forest', *G. Kunkel 10* (PTER, holo.).

*A. dusenii* Luerss. ex Bonap. in Notes Ptéridologiques 14: 276 (23 Nov. 1923b), nom. nud.
Type: 'Jambata. Intele. A terre. Le 1er mars 1914', *F.M.C. Vermoesen 62* (not located); 'Mayombe. Mont Madia Koko, près de Kisali. Altitue de 750 mètres. Forêt vierge. Août 1919', *V. Goossens 1458* (not located).

*A. gemmiferum* sensu Tardieu in Tardieu-Blot *et al*. in Études Camerounaises 2,25/26: 84 (1950), non Hook. (1867b: 207).

*A. repandum* sensu Tardieu in Tardieu-Blot *et al.* in Études Camerounaises 2,25/26: 86 (1950), p.p., non Mett. ex Kuhn (1868: 114).

Chromosome number: n = 144 (Manton 1959: 79).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Príncipe, São Tomé, Sierra Leone, Sudan, Tanzania, Uganda.

**Asplenium varians** *Wall. ex Hook. & Grev*. subsp. **fimbriatum** *(Kunze) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 211 (1967).

*A. fimbriatum* Kunze in Linnaea 18: 117 (1844b).
Type: 'Unico loco inter Omfondi et Tagela portus natalensis in sylva umbrosa lateralis montis ad saxa umbrosa, Febr.–Apr. 1842', *W. Gueinzius s.n*. (W!, holo.; HBG, K000423960, iso.).

*A. semivarians* Viane & Reichstein in Subh.Chandra & M.Srivastava (eds), Pteridology in the new millennium: 78–80, fig. 3 (2003).
Type: 'India: Tamil Nadu: Shevaroy Hills, NW of Yercaud, NE of Salem, ca. 1550 m, 13 Dec. 1978', *C.R. Fraser-Jenkins 9063* (=TR-5021) (GENT, holo.; Herb. Viane, iso.).

*A. varians* sensu Sim, The ferns of South Africa: 140, pl. LXVI, fig. 2 (1892).

Chromosome number: the species is a sexual diploid based on 2n = 72 (Viane & Reichstein 2003: 80).

Distribution: DRC, Kenya, Lesotho, Mozambique, South Africa, Tanzania, Uganda, Zimbabwe.

**Asplenium villosum** *Bonap.* in Notes Ptéridologiques 4: 72, 73 (19 May 1917b).
Type: Madagascar. 'Région floristique de l'Est. Côté Est dans les environs de la Baie d'Antongil. Vers 100 mètres d'altitude. Octobre 1912', *H. Perrier de la Bâthie 7979* (P00482960!, holo.; P00482961!, iso.).

Distribution: Madagascar.

**Asplenium virchowii** *Kuhn ex Baker*, Annals of Botany (C. König, J. Sims, eds) 5: 311 (1891a).
Type: Plantae Madagascarica exsiccatae, *Hildebrandt 4168* (not located).

*Antigramma virchowii* (Kuhn) Tardieu in Naturaliste Malgache 9,1: 29, figs 1–4 (1957b).

*Diplazium virchowii* (Kuhn) Diels in Die natürlichen Pflanzenfamilien 1,4: 228 (Oct. 1899b).

*Phyllitis virchowii* (Kuhn ex Baker) H.Christ, Die Geographie der Farne: 160, fig. 123 (1910).

Distribution: Madagascar.

**Asplenium viviparioides** *Mett*. in Hedwigia 60,5/6: 216, 217 (1918).
Type: 'Zentral-Madagascar: im Wald von Ankafina in Süd-Betsiléo, März 1881', *J.M. Hildebrandt, 4148* (?B, syn.; BM!, P00483009!, P00483001!, P00483010!, (plus 2 unnumbered sheets), syn.); Sine loc. *J. Buchanan 5* (?B, syn.).

Distribution: Madagascar, Réunion.

**Asplenium viviparum** *(L.) C.Presl*, Tentamen pteridographiae: 109, pl. 3, fig. 20 (Oct. 1836).

*Acrostichum viviparum* L.f., Supplementum plantarum: 444 (Apr. 1782).
Type: 'Habitat in Isle de France & Bourbon', *P. Sonnerat, per A. Thouin s.n.* (SBT1.2.1.55, iso.).

*Caenopteris vivipara* P.J.Bergius in Acta Academiae Scientiarum Imperialis Petropolitanae 6,2: 250, t. 7, fig. 3 (1786).
Type: "ex insula Mauritii", *A. Thouin s.n*. (SBT1.2.1.55, holo.).

*Asplenium daucifolium* Lam., Encyclopédie méthodique. Botanique 2,1: 310 (16 Oct. 1786).
Type: 'l'Isle de France', *P. Commerson s.n.* (Herb. Thouin).

*C. daucifolia* (Lam.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 268 (Jul. 1827).

*Asplenium viviparum* (L.) C.Presl var. *daucifolium* (Lam.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 47 (1956i).

*Asplenium lineatum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 51 (1801).

*Asplenium viviparum* (L.) C.Presl var. *lineatum* (Sw.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 47, pl. II (1956i).

*Darea inaequalis* Bory ex Willd., Species plantarum, edn 4, 5,1: 298, 299 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19862!, holo.).

*Asplenium viviparum* (L.) C.Presl var. *inaequale* (Willd.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 48 (1956i).

*Asplenium nodulosum* Kaulf. ex Spreng., Systema vegetabilium edn 16, 4,1: 83 (Jan. 1827).

*Asplenium mascarenhense* Fée, Cinquième mémoire sur la famille des fougères 5: 194 (1852).
Type: 'Habitat in insulâ Borboniâ [ins. Mascarenhensi]', *De Montbrison s.n*. (P00483551, holo.).

*Asplenium montbrisonis* Fée, Cinquième mémoire sur la famille des fougères 5: 198, t. 6A, fig. 3 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n*. (not located).

*Asplenium boryanum* T.Moore, Index filicum 2,10: 117 (May 1859a).

*Asplenium nodulosum* Kaulf. var. *bipinnatisectum* Mett. ex Kuhn, Filices africanae: 109 (Oct. 1868).
Type: 'Ins. Mauritii', *F.W. Sieber 56* (P00483552, P00483553, P00483554, P00483555, syn.).

*Asplenium balfourii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 303, 304 (Aug. 1891a).
Type: 'Bourbon', *I.B. Balfour s.n.* (K, 2 sheets!, holo.).

Distribution: Madagascar, Mauritius, Réunion.

**Asplenium volkensii** *Hieron*. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 83 (Jun. 1895).
Type: "Fuss des Kifinika, 2 700 m, November 1893", *O.H. Volk 1328* (B, holo.; BM!, iso.).

Distribution: Burundi, DRC, Rwanda, Tanzania.

**Asplenium warneckei** *Hieron*. in Botanische Jahrbücher 46,3: 367, 368 (1911).
Type: 'Deutsch-Ostafrika: im lichteren und schattigeren Urwalde bei Amani in Usambara in Höhe von 900 ü. M., März 1903', *O. Warnecke 338* (B20 0056664, holo.; K, P00477794!, P00477795!, iso.).

*A. warneckei* Hieron. var. *prolifera* Hieron. in Botanische Jahrbücher 46,3: 369 (1911).
Type: 'Deutsch-Ostafrika: bei Lutindi in Usambara, 1900', *G. Libusch s.n*. (B, holo.).

Distribution: Cameroon, Ghana, Liberia, Madagascar, Sudan, Tanzania, Uganda.

## BLECHNACEAE

**Blechnaceae** *Newman*, A history of British ferns, edn 2: 8 (1844). Type: *Blechnum* L.

*Filicaceae* L. tr. *Asplenieae* Gaudich. sect. *Blechnum* C.Presl, Tentamen pteridographiae: 97 (Oct. 1836), as '*Blechnaceae*'. Type: *Blechnum* L.

*Polypodiaceae* Bercht. & J.Presl subfam. *Blechnoideae* (C.Presl) C.Chr. in Manual of pteridology: 540 (3 Apr. 1938).

*Stenochlaenaceae* Ching in Acta Phytotaxonomica Sinica 16,4: 18, 19 (Nov. 1978b). Type: *Stenochlaena* J.Sm.

*Blechnaceae* (C.Presl) Copel. subfam. *Stenochlaenoideae* (Ching) J.P.Roux in Conspectus of southern African Pteridophyta: 156 (Nov. 2001a).

### BLECHNUM

**Blechnum** *L*., Species plantarum 2: 1077 (1 May 1753). Lectotype: *Blechnum occidentale* L., as *B. 'orientale'*, designated by Smith (1875: 300).

*Struthiopteris* Scop., Flora carniolica: 168 (15 Jun.–21 Jul. 1760). Type: *Struthiopteris spicant* (L.) Scop.; *Osmunda spicant* L. (now *Blechnum spicant* (L.) Roth).

*Lomaria* Willd. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 3: 160 (1809a). Type: *Lomaria nuda* (Labill.) Willd.; *Onoclea nuda* Labill. (now *Blechnum nudum* (Labill.) Luerss.).

*Mesothema* C.Presl, Epimeliae botanicae: 111 (1851). Type: *Mesothema australe* (L.) C.Presl; *Blechnum australe* L.; *Blechnum* L. sect. *Mesothema* (C.Presl) J.Sm. (1875: 301).

*Lomaria* Willd. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 3: 160 (1809a). Type: *Lomaria punctulata* (Sw.) J.Sm.; *Blechnum punctulatum* Sw.

*Lonchitis-aspera* Hill ex Farw. in The American Midland Naturalist 12,8: 276 (Mar. 1931). Type: *Lonchitis-aspera spicant* (L.) Hill. ex Farw.; *Osmunda spicant* L.

**Blechnum attenuatum** *(Sw.) Mett*., Filices horti botanici lipsiensis: 64, pl. 3, figs 1–6 (May–Jun. 1856a).

*Onoclea attenuata* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 73 (1801).
Type: 'Ex insula Mauritii', *C.F. Gröndahl s.n.* (S!, holo.).

*Lomaria attenuata* (Sw.) Willd., Species plantarum, edn 4, 5,1: 290 (25–27 Jun. 1810).

*Spicanta attenuata* (Sw.) Kuntze in Revisio generum plantarum 2: 821 (5 Nov. 1891).

*L. heterophylla* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 330 (1811).
Type: 'Habitat ad C. B. Spei', *P. Sonnerat s.n.* (P-JU 1278, holo.).

*B. heterophylla* (Desv.) Schltdl., Adumbrationes plantarum 4: 37 (Oct.–Dec. 1827).

*L. gigantea* Kaulf., Enumeratio filicum: 150, 151 (Oct. 1824).
Type: "Prom. bon. spei: Ad montem tabularem, versus Kerstenbosch, 02/1815–17", *C.H. Bergius s.n*. (B20 0031351!, B20 0031352!, B20 0031354!, B20 0031355!, holo.; HAL81850, ?iso.).

*B. giganteum* (Kaulf.) Schltdl., Adumbrationes plantarum 4: 36 (Oct.–Dec. 1827).

*B. attenuatum* (Sw.) Mett. var. *giganteum* (Kaulf.) Bonap. in Notes Ptéridologiques 1: 57 (14 Jul. 1915a).

*L. hamata* Kaulf., Enumeratio filicum: 150 (Oct. 1824).
Type: 'Habitat in Promentorio bonae spei', *sine coll. s.n.* (not located).

*L. punctata* Blume, Enumeratio plantarum Javae 2: 201 (15 Dec. 1828).
Type: "Java", *C.L. von Blume 767* (L0051096, syn.); "Java", *sine coll. s.n*. (L0051097, syn.).

*L. circinata* Bojer, Hortus mauritianus: 406 (1837).
Type: unknown to current author.

*L. decipiens* Pappe & Rawson, Synopsis filicum Africae australis: 29 (Jan.–Jul. 1858).
Type: 'Near Grahamstown', *W.G. Atherstone s.n.* (K000435907!, lecto.), designated by Schelpe & Anthony (1986: 29); 'between rock crevices on rocks near the mouth of the Klein River, Caledon', *C.L.P. Zeyher s.n.* (syn., not located).

*B. polypodioides* (Sw.) Kuhn var. *holstii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 81 (Jun. 1895).
Type: 'Usb., Mbaramu', *C.H.E.W. Holst 2479* (B20 0031479!, lecto.), notula by Parris on sheet dated 25 Oct. 2000.

*B. attenuatum* (Sw.) Mett. var. *holstii* (Hieron.) Schelpe in Journal of the Linnean Society, Botany 53,355: 493 (1952a).

*L. confine* Cordem., Flore de l'Ile de la Réunion: 58 (1895), as '*confinis*'.
Type: "Bourbon", *H.J. de Cordemoy s.n.* (K000432459!, K000432460!, iso.).

*B. confine* (Cordem.) C.Chr., Index filicum: 152 (20 Aug. 1905).

*B. polypodioides* sensu Kuhn, Filices africanae: 92 (Oct. 1868), non Raddi (1819: 294).

Chromosome number: n = 64 (Manton 1959: 81).

Distribution: Annobon, Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan, Grande Comore); Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe.

**Blechnum australe** *L.*, Systema naturae, edn 12, 2: 688 (15–31 Oct. 1767a).
Provenance: 'Habitat ad Cap. b. spei'. Lectotype: Herb. Linn. No. 1247.3 (LINN), designated by Schelpe (1952a: 508).

*Lomaria australis* (L.) Link, Filicum species: 75 (Oct. 1841).

*Blechnopsis australe* (L.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 2: 166 (1851).

*Mesothema australe* (L.) C.Presl, Epimeliae botanicae: 112 (1851).

*Struthiopteris australis* (L.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 3 14: 572 (1869).

*Spicanta australis* (L.) Kuntze in Revisio generum plantarum 2: 821 (5 Nov. 1891).

*L. pumila* Kaulf., Enumeratio filicum: 151, 152 (Oct. 1824).
Type: "Prom. bon. spei, 03. VII. 1829–38", *C.F. Ecklon et C.L.P. Zeyher s.n.* (HAL076913, holo.), (Braun 1998: 17).

*Blechnum australe* L. f. *glanduliferum* Schelpe in Journal of the Linnean Society, Botany 53,355: 509 (1952a).
Type: 'Cape Peninsula, Table Mountain, Barrier Ravine', *E.A.C.L.E. Schelpe 1870* (BM, holo.).

*Blechnum australe* L. var. *aberrans* N.C.Anthony & Schelpe in Bothalia 15: 555 (1985).
Type: 'Cape Province, Stutterheim, Amabele', *W.N.B. Hardcastle 297* (NBG0095336-0!, holo.).

Chromosome number: tetraploid, n = 62 (Manton & Vida 1968: 364).

Distribution: Ascension Isl., Gough Isl., Inaccessible Isl., Kenya, Lesotho, Madagascar, Malawi, Namibia, Réunion, South Africa, Swaziland, Tanzania, Tristan da Cunha, Zimbabwe.

**Blechnum bakeri** *C.Chr.*, Index filicum: 151 (20 Aug. 1905), nom. nov. for *Lomaria pubescens* Baker (1876b: 415), nec Kunze (1843: 122), nec *Blechnum pubescens* Desv. (1827: 284), nec Hooker (1837a: pl. 97).
Type: as for *Lomaria pubescens* Baker.

*Lomaria pubescens* Baker in Journal of the Linnean Society, Botany 15: 415 (1876b), non Kunze (1843: 122), nec *Blechnum pubescens* Desv. (1827, 284), nec Hooker (1837a: pl. 97).
Type: Madagascar, Antananarivo, *W. Pool s.n.* (K000424011, K000424012!, lecto.).

*B. ivohibense* C.Chr. var. *hirsutum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 44 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*B. ivohibense* C.Chr. var. *hirsutum* C.Chr. in Dansk Botanisk Arkiv 7: 106 (Oct. 1932b).
Type: Forêt de Analamaitso, *H. Perrier de la Bâthie 7625* (BM, syn.); Pic d'Ivohibe (Bara), *L. Humbert 3299* (BM, syn.).

Distribution: Madagascar.

**Blechnum biforme** *(Baker) H.Christ*, Die Farnkräuter der Erde: 180 (Oct. 1897a).

*Lomaria biformis* Baker in Journal of the Linnean Society, Botany 15: 415, 416 (1876b).
Type: Madagascar, Antananarivo, *W. Pool s.n.* (K000424008!, K000424009!, holo.).

*B. microbasis* (Baker) C.Chr. var. *biforme* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 14 (Apr. 1960a).

*L. microbasis* Baker in Journal of Botany, British and Foreign 1880: 328 (1880b).
Type: Madagascar. 'Between Tamatave and Antananarivo', *L. Kitching s.n.* (K000424010, holo.).

*B. microbasis* (Baker) C.Chr., Index filicum: 156 (20 Aug. 1905).

Distribution: Madagascar.

**Blechnum capense** *Burm.f.*, Prodromus flora capensis: 28 (1 Mar.–6 Apr. 1768b).
Type: Cape, *sine coll. s.n.* (G!, lecto.), designated by Roux (1982a: 452).

*Osmunda capensis* L., Mantissa plantarum, altera: 306 (Oct. 1771).
Provenance: 'Habitat inter montes Cap. b. spei, inter montem tabularem et Diaboli, ad rivulum. Koenig'. Lectotype: Herb. Linn. No. 1244.11 (LINN), designated by Schelpe (1952a: 487).

*Onoclea capensis* (L.) Sw., Synopsis filicum: 111 (Mar.–Apr. 1806b).

*Lomaria capensis* (L.) Willd., Species plantarum, edn 4, 5,1: 291 (25–27 Jun. 1810).

*B. capense* (L.) Schltdl., Adumbrationes plantarum 4: 34 (Oct.–Dec. 1827).

*Spicanta capensis* (L.) Kuntze, Revisio generum plantarum 2: 821 (5 Nov. 1891).

*Lonchitis-aspera capensis* (L.) Farw. in The American Midland Naturalist 12,8: 276 (Mar. 1931).

*B. sylvaticum* Schelpe in Journal of South African Botany 45,2: 221 (1979), nom. nov. for *B. capense* (L.) Schltdl. (1827: 34), non Burm.f. (1768b: 28).
Type: As for *Blechnum capense* (L.) Schltdl.

*Lomaria capensis* (L.) Willd. f. *luxurians* Kunze in Linnaea 10: 505 (1836).
Type: "Prope Leewenhof haud procul a Monte Tafelberg secus rivulam", *J.F. Drège s.n.* (BM!, lecto.), designated by Roux (1986: 356).

*Lomaria procera* sensu Sim, The ferns of South Africa: 122, 123, pl. LVII (1892).

Distribution: Malawi, Mozambique, South Africa, Swaziland, Zimbabwe.

**Blechnum humbertii** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, biologie végétale 6: 232, pl. 5, figs 1–4 (1955f).

Type: Madagascar. 'Vallée de la Lokoho, mont Beondroka, au Nord de Maroambihy, sylve à Lichens, sur gneiss et quartzite', *H. Humbert 23554* (P, holo.; P00483200, iso.).

Distribution: Madagascar.

**Blechnum inflexum** *(Kunze) Kuhn*, Filices africanae: 92 (Oct. 1868).

*Lomaria inflexa* Kunze in Linnaea 18: 117 (1844b).
Type: 'Vorgebirge der gunten Hoffnung .... ohne Angabe des Standorts eingesandt', *W. Gueinzius s.n.* (W!, lecto.), designated here; Cape Province, Ceres, Hansiesberg, *E. Esterhuysen 25747* (BOL!, neo.), designated by Schelpe & Anthony (1986: 267); (B, C, K, M, MO, P, PR, PRE0549430-0, S, isoneo.).
Notes: Schelpe & Anthony (1986: 267) designated an Esterhuysen collection as neotype. However, original material when discovered, supersedes a neotypification [McNeill *et al.* (2006) Art. 9.17(a)].

*Struthiopteris inflexa* (Kunze) Ching in Sunyatsenia 5,4: 243 (30 Oct. 1940a).

*L. discolor* Willd. var. *natalensis* Baker in Synopsis filicum, edn 2: 481 (Oct. 1874a).
Type: Natal, *M.J. McKen & J. Buchanan s.n.* (K, holo.).

Distribution: South Africa, Swaziland, Zimbabwe.

**Blechnum ivohibense** *C.Chr*. in Archives de Botanique, Bulletin Mensuel 2,12: 211 (Dec. 1928).
Type: Madagascar. 'Pic d'Ivohibe, Bara, restes de forêts', alt. 1 500–2 000 m, 05–11/11/1924, *H. Humbert 3300* (BM, holo.; B20 0031506!, iso.).

*B. bakeri* C.Chr. var. *glabra* Bonap. in Notes Ptéridologiques 16: 72 (14 Apr. 1925a).
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analamazaotra. 800 mètres d'altitude. Dans l'humus. Janvier', *H. Perrier de la Bâthie 7550* (P?, syn.); Madagascar. 'Régions floristiques du Centre. Haut Bemarivo. Forêt d'Analamazaotra. 800 mètres d'altitude. Bois humide. A terre. Avril 1902', *H. Perrier de la Bâthie 7625* (P?, syn.); Madagascar. 'Régions floristiques du Centre. Massif de Manongarivo. Vers 1 700 mètres d'altitude. Bois humides. Parmi les rocs de basalte. Mai 1909', *H. Perrier de la Bâthie 7623* (P?, syn.); Madagascar. 'Régions floristiques du Centre. Mont Tsaratanana. 2 000 mètres d'altitude. Bois, rocailles. Dècembre 1912', *H. Perrier de la Bâthie 7961* (P?, syn.).

*B. bakeri* C.Chr. var. *glabrum* Bonap. in Notes Ptéridologiques 16: 72 (14 Apr. 1925a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Madagascar, Mandraka, forêts, le 15 août 1906', *Ch. d'Alleizette 82* (?P, holo.).

*B. bakeri* C.Chr. var. *glabrum* Bonap. ex Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 8, t. 2, figs 1–3 (Apr. 1960a), as '*glabra*'.
Type: 'Madagascar, Mandraka, forêts, le 15 août 1906', *Herb. Ch. d'Alleizette 82* (P?, holo.).

*B. umbrosum* Peter in Feddes Repertorium, Beiheft 40,1: 82, Anhang: 9, t. 3, figs 5–8 (1929).
Type: 'DOAfr., WUsambara: am Bergzug Kisimba üb. Mazumbai 1880', *A. Peter 16489* (B20 0034334!), lecto., notula by Parris on sheet dated 25 Oct. 2000, (GOET, holo.; BM, K, iso.).

Distribution: Kenya, Madagascar, Malawi, Mozambique, Tanzania, Zimbabwe.

**Blechnum longepetiolatum** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 230, 232, fig. 4, t. 1–5 (1955f).
Type: Madagascar. 'Vallée de la Lokoho, mont Beondroka, au Nrd du Maroambihy, sylve à Lichens, sur gneiss et quartzite', *H. Humbert 23465* (P00518458, holo.; P00518457, iso.).

Distribution: Madagascar.

**Blechnum madagascariense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 230, fig. 3, t. 1–4 (1955f).
Type: Madagascar. 'Vallée de la Lokoho, mont Beondroka, au Nord de Maroambihy, 1000–1400 m', *H. Humbert 23466* (P, holo.; P00483203, P00518459, iso.).

*Lomaria marginata* Fée, Cinquième mémoires sur la famille des fougères: 71 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n.* (not located).

Distribution: Madagascar.

**Blechnum montbrisonis** *C.Chr*., Index filicum: 157 (20 Aug. 1905), nom. nov. for *Lomaria marginata* Fée (1852: 71), non Schrad. (1824: 871).

*Lomaria marginata* Fée, Cinquième mémoire sur la famille des fougères 5: 71 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n.* (not located), non Schrad. (1824: 871).

*B. marginatum* (Fée) Kuhn, Filices africanae: 92 (Oct. 1868), nom. superfl.

Distribution: Réunion.

**Blechnum palmiforme** *(Thouars) C.Chr*. in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 10 (4–30 Dec. 1940).

*Pteris palmiformis* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 30, 31 (Oct. 1808), as '*palmaeformis*'.
Type: Tristan da Cunha, erroneously given as 'Isle Bourbon, Isle de-France', *L.-M.A. du Petit-Thouars s.n.* (P, holo.).

*Lomaria palmiforme* (Thouars) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 290 (Jul. 1827), as '*palmaeformis*'.

*L. robusta* Carmich. in Transactions of the Linnean Society of London, Botany 12: 512 (1818).
Type: Tristan da Cunha, *D. Carmichael s.n.* (BM?, holo.).

*L. magellanica* sensu Hook.f., Flora antarctica 2,22: 393 (1 Jan. 1847a), non *L. magellanica* Desv. (1811: 330).

*L. boryana* sensu Hook. in Synopsis filicum 5: 180 (8 Jul. 1867c).

Chromosome number: tetraploid, 2n = 66 (Manton & Vida 1968: 364).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

See Plate 4F.

**Blechnum penna-marina** *(Poir.) Kuhn*, Filices africanae: 92 (Oct. 1868).

*Polypodium penna-marina* Poir. in Encyclopedie méthodique, Botanique 5: 520 (9 Jan. 1804).
Type: Straits of Magellan, *P. Commerson s.n.* (P-Desf, holo.; BM, FI, iso.).

*Lomaria penna-marina* (Poir.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 3 14: 570 (1869).

*Lonchitis-aspera penna-marina* (Poir.) Farw. in The American Midland Naturalist 12,8: 277 (Mar. 1931).

*Struthiopteris penna-marina* (Poir.) Maxon & C.V.Morton in Bulletin of the Torrey Botanical Club 66: 44 (Jan. 1939).

*Acrostichum polytrichoides* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 32 (1808).
Type: "Tristan d'Acugna", *L.-M.A. du Petit-Thouars s.n.* (P00483202, holo.).

*Stegania alpina* R.Br., Prodromus florae Novae Hollandiae: 152 (1–7 Apr. 1810).
Type: 'lat Mont Tabul., Derwent, Tasmania, 1802–1805', *R. Brown 44* (BM, lecto.), designated by Chambers & Farrant (1996: 96); (BM, isolecto.).

*Lomaria alpina* (R.Br.) Spreng., Systema vegetabilium, edn 16, 4,1: 62 (Jan. 1827).

*B. penna-marina* (Poir.) Kuhn subsp. *alpina* (R.Br.) T.C.Chambers & P.A.Farrant in Fern Gazette 15,3: 96 (1996).

*Lomaria antarctica* Carmich. in Transactions of the Linnean Society of London, Botany 12: 513 (1818).
Type: Tristan d'Acunha. 'On the most barren parts of the plain', *D. Carmichael s.n.* (BM, holo.; K, iso.).

Chromosome number: tetraploid, 2n = 66 (Manton & Vida 1968: 364).

Distribution: Amsterdam Isl., Crozet Isl., Gough Isl, Inaccessible Isl., Kerguelen Isl., Marion Isl., Nightingale Isl., Prince Edward Isl., Tristan da Cunha.

**Blechnum punctulatum** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 74, 75 (1801), var. **punctulatum**.
Type: ex Cap. b. Spei, *C.P. Thunberg s.n.* (S!, holo.).

*Lomaria punctulata* (Sw.) Kunze in Linnaea 10: 507 (1836).

*Blechnopsis punctulata* (Sw.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 2, 2: 166 (1851).

*Mesothema punctulatum* (Sw.) C.Presl, Epimeliae botanicae: 113 (1851).

*Struthiopteris punctulata* (Sw.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 3, 14: 573 (1869).

*Spicanta punctulata* (Sw.) Kuntze, Revisio generum plantarum 2: 822 (5 Nov. 1891).

*Blechnum rigidum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 75 (1801).

*L. rigida* (Sw.) Fée, Cinquième mémoires sur la famille des fougères: 68 (1852).

*M. rigidum* (Sw.) C.Presl, Epimeliae botanicae: 113 (1851).

*Struthiopteris rigida* (Sw.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 3, 14: 572 (1869).

*L. auriculata* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 330 (1811).
Type: 'Habitat ad C. B. Spei', *Descrez s.n.* (P-JU 1370).

*L. densa* Kaulf., Enumeratio filicum: 151 (Oct. 1824).
Type: 'Habitat in Promontoria bonae spei', *F.W. Sieber s.n.* (HBG, holo.).

*Blechnum punctulatum* Sw. f. *glanduliferum* Schelpe in Journal of the Linnean Society, Botany 53,355: 503 (1952a).
Type: 'Cape Province, Uniondale Div., Kouga Peak', *E. Esterhuysen 16252* (BOL, holo.).

*L. dregeana* Fée in Mémoires de la Sociéte des Sciences Naturelles de Strasbourg 6,1: 9, 10 (1866a).
Type: 'habitat in promontorio Bonae spei', *J.F. Drége s.n.* (missing).

*Struthiopteris dregeana* (Fée) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 3, 14: 572 (1869).

Distribution: Lesotho, Madagascar, Malawi, South Africa, Swaziland, Tanzania, Zimbabwe.

**Blechnum punctulatum** *Sw*. var. **atherstonei** *(Pappe & Rawson) Sim*, The ferns of South Africa, edn 2: 183, pl. 79 (1915).

*B. atherstonei* Pappe & Rawson, Synopsis filicum Africae australis: 16, 17 (Jan.–Jul. 1858), as '*Atherstoni*'.
Type: 'on the southwest of Graham's Town, near the blockhouse, 1856', *W.G. Atherstone s.n.* (not located).

*Lomaria punctulata* (Sw.) Kunze var. *atherstonei* (Pappe & Rawson) Sim, The ferns of South Africa: 120, pl. LIV (1892), as '*atherstoni*'.

Distribution: Malawi, South Africa, Swaziland.

**Blechnum punctulatum** *Sw.* var. **intermedium** *(Sim) Sim*, The ferns of South Africa, edn 2: 184, pl. 80 (1915).

*Lomaria punctulata* (Sw.) Kunze var. *intermedia* Sim, The ferns of South Africa: 121, pl. LV (1892).
Type: "Grahamstown, 12.1891", *T.R. Sim s.n.* (PRE0010984, syn.); "Natal", *J. Buchanan s.n.* (PRE0101983, syn.).

Distribution: South Africa.

**Blechnum punctulatum** *Sw*. var. **krebsii** *(Kunze) Sim*, The ferns of South Africa, edn 2: 185, pl. 81 (1915).

*Onychium krebsii* Kunze in Linnaea 10: 504 (1836).
Type: "Cap. b. Sp.", *L. Krebs s.n.* (B20 0033087!, lecto.), here designated.

*Scolopendrium krebsii* (Kunze) Kunze in Linnaea 18: 118, 119 (1844b).

*Lomaria punctulata* (Sw.) Kunze var. *krebsii* (Kunze) Sim, The ferns of South Africa: 121, 122, pl. LVI, t. b. (1892).

*B. punctulatum* Sw. var. *scolopendrioides* Mett. ex Kuhn, Filices africanae: 93 (Oct. 1868).
Type: As for *Onychium krebsii* Kunze.

Distribution: South Africa.

**Blechnum simillimum** *(Baker) Diels* in Die natürlichen Pflanzenfamilien 1,4: 248 (Oct. 1899b), var. **simillimum**.

*Lomaria simillima* Baker in Journal of Botany, British and Foreign 1884: 141, 142 (1884c).
Type: 'North-east Madagascar', *L. Humblot 307* (K000435912!, holo.).

Distribution: Madagascar, Réunion.

**Blechnum simillimum** *(Baker) Diels* var. **xiphophyllum** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 11 (Apr. 1960a).

*Lomaria xiphophylla* Baker in Journal of Botany, British and Foreign 1884: 142 (1884c).
Type: 'Madagascar', *L. Humblot 442* (K000435909!, holo.).

*B. xiphophyllum* (Baker) C.Chr., Index filicum: 161 (20 Aug. 1905).

*Polypodium binerve* Hook., Species filicum 4,15/16: 175, 176, pl. 273B (1863).
Type: 'Madagascar' *R. Lyall s.n.* (not located).

*B. binerve* (Hook.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 44 (Feb. 1932a).

*B. simillimum* (Baker) Diels var. *xiphophyllum* (Baker) Tardieu f. *binerve* (Hook.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 11 (Apr. 1960a).

*L. stenophylla* Baker in Journal of Botany, British and Foreign 1884: 142 (1884c).

Type: Madagascar, *L. Humblot 305* (K000432461!, holo.).

*B. humblotii* C.Chr., Index filicum: 155 (20 Aug. 1905).

Distribution: Madagascar.

**Blechnum spicant** *(L.) Roth* in Annalen der Botanik (P. Usteri, ed.) 10: 56 (1794).

*Osmunda spicant* L., Species plantarum 2: 1066, 1067 (1 May 1753).
Provenance: 'Habitat in Europa'. Lectotype: Herb. Linn. No. LINN 1244.14 (LINN), designated by Jonsell & Jarvis (1994: 150).

*Lonchitis-aspera spicant* (L.) Hill. ex Farw. in The American Midland Naturalist 12,8: 277 (Mar. 1931).

Distribution: Algeria, Morocco, Tunisia.

**Blechnum tabulare** *(Thunb.) Kuhn*, Filices africanae: 94 (Oct. 1868).

*Pteris tabularis* Thunb., Prodromus plantarum capensium: 171 (1800).
Type: 'e Cap b. Spei, in lateribus (aquo)sis summi Taffelberg', *C.P. Thunberg s.n.* (UPS-Thunb 24965!, holo; S, iso.).

*Lomaria tabularis* (Thunb.) Mett. ex Baker in Flora brasiliensis 1,2: 418 (1 May 1870).

*Lonchitis-aspera tabularis* (Thunb.) Farw. in The American Midland Naturalist 12,8: 277 (Mar. 1931).

*P. osmundoides* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 194, pl. 32 (Sep. 1804b).
Type: Sine loc., *J.B.G.M. Bory de St.-Vincent s.n*. (P?, holo.).

*Spicanta osmundoides* (Bory) Kuntze, Revisio generum plantarum 2: 821 (5 Nov. 1891), as '*osmundodes*'.

*Onoclea boryana* Sw., Synopsis filicum: 111, 112 (Mar.–Apr. 1806b).
Type: 'Insula Borboniae, supra Scorias Vulcani', *J.B.G.M. Bory de St.-Vincent s.n*. (not located).

*Lomaria boryana* (Sw.) Willd., Species plantarum, edn 4, 5,1: 292 (25–27 Jun. 1810).

*B. boryanum* (Sw.) Schltdl., Adumbrationes plantarum 4: 35, pl. 19 (Oct.–Dec. 1827).

*Lomaria coriacea* Schrad. in Göttingische Gelehrte Anzeigen 1818: 916 (1818).
Type: Cape, *C.H.F. Hesse s.n.* (LE?, holo.).

*Lomaria gueinzii* Moug. ex Fée, Cinquième mémoires sur la famille des fougères: 69 (1852).
Type: 'Habitat ad Promontorium Bonae Spei', *W. Gueinzius s.n.* (Herb. Moug., missing).

*Lomaria dalgairnsiae* Pappe & Rawson, Synopsis filicum Africae australis: 27 (Jan.–Jul. 1858).
Type: 'In the dense forests of the Knysna, 1856', *Dalgairns, s.n*. (BM, holo.).

*B. dalgairnsiae* (Pappe & Rawson) Kuhn, Filices africanae: 92 (Oct. 1868).

*Lomaria cycadioides* Pappe & Rawson, Synopsis filicum Africae australis: 28 (Jan.–Jul. 1858).
Type: 'in the woods of Natal', *R.W. Plant 335* (missing).

*B. cycadioides* (Pappe & Rawson) Kuhn, Filices africanae: 91 (Oct. 1868).

*B. wolamense* Cufod. in Senckenbergiana Biologica 50,3/4: 255, t. 10, fig. 10 (15 Aug. 1969).
Type: 'Grenze Koisa-Kindo in W-Wolamo, 2 300–2 500 m, 22.5.55, steril', *Kuls 527* (FR, holo.).

Distribution: Angola, Burundi, Cameroon, DRC, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Réunion, Rwanda, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

## DOODIA

**Doodia** *R.Br*., Prodromus florae Novae-Hollandiae: 151 (1–7 Apr. 1810). Lectotype: *Doodia aspera* R.Br., designated by Smith (1875: 308).

**Doodia squarrosa** *Colenso* in Transactions and Proceedings of the New Zealand Institute 13: 382–384 (1881).
Type: Sine loc. *W. Colenso 9/83*, frond second from right (K, lecto.), designated by Parris (1972: 601).

*D. caudata* (Cav.) R.Br. var. *squarrosa* (Col.) C.Chr., Index filicum: 243 (2 Oct. 1905).

*D. caudata* sensu Burrows, South African ferns and fern allies: 338 (1990), non (Cav.) R.Br. (1810: 151).

Distribution: South Africa (naturalised).

## STENOCHLAENA

**Stenochlaena** *J.Sm*. in Journal of Botany (W.J. Hooker, ed.) 4: 149 (1842a). Lectotype: *Stenochlaena scandens* (Sw.) J.Sm., nom. illeg. *Onoclea scandens* Sw., nom. illeg. (now *Stenochlaena palustris* Burm. f.), designated by Pfeiffer (1874).

**Stenochlaena madagascarica** *Bonap*. in Notes Ptéridologiques 4: 74, 75 (19 May 1917b).
Type: Madagascar. 'Région floristique de l'Est et du Centre. Forêt d'Analamazoatra. 800 mètres d'altitude. Epiphyte. Décembre', *H. Perrier de la Bâthie 6161* (P00483293, holo.; P00483294, P00483295, P00483296, iso.).

*Lomariopsis madagascarica* (Bonap.) Alston in Journal of Botany, British and Foreign 72,861, Supplement: 6 (1934a).

Distribution: Madagascar.

**Stenochlaena tenuifolia** *(Desv.) T.Moore* in The Gardeners' Chronicle and Agricultural Gazette 1856: 193 (22 Mar. 1856).

*Lomaria tenuifolia* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 326 (1811).
Type: 'Habitat in Madagascaria', *P. Commerson s.n.* (P-JU 1380, holo.).

*Lomariobotrys tenuifolia* (Desv.) Fée, Cinquième mémoires sur la famille des fougères: 46 (1852).

*Acrostichum tenuifolium* (Desv.) Baker in Synopsis filicum 10: 412, 413 (Apr. 1868b).

*Polybotrya tenuifolia* (Desv.) Kuhn, Filices africanae: 52 (Oct. 1868).

*Lomariopsis tenuifolia* (Desv.) H.Christ, Die Farnkräuter der Erde: 42 (Oct. 1897a).

*Lomaria meyeriana* Kunze in Linnaea 10: 509 (1836).
Type: "In palude sylvatica inter a Omtendo et Omsamculo, 70 m", *J.F. Drège s.n*. (B!, lecto.), designated by Roux (1986: 357); (BM!, isolecto.).

*Lomariobotrys meyeriana* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 46 (1852).

*S. meyeriana* (Kunze) C.Presl, Epimeliae botanicae: 166 (1851).

*P. meyeriana* (Kunze) Mett., Filices horti botanici lipsiensis: 24 (May–Jun. 1856a).

*A. meyerianum* (Kunze) Hook., Species filicum 5,18/20: 250, t. 16 (Jun. 1864b) as '*meyeranum*'.

*S. madagascarica* Bonap. var. *cuneata* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 45 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*S. mildbraedii* Brause in Botanische Jahrbücher 53: 384, 385 (1915).
Type: 'Westafrika: Fernando Poo, Musola oberhalb San Carlos (Westküste), Kulturregion der Bubis, Wurzelkletterer an *Raphia*-Stämmen, ca. 500 m ü. M., November 1911', *G.W.J. Mildbraed 6995* (B20 0121855!, lecto.), designated by Tardieu-Blot (1953c: 354) sensu Verdcourt (1992: 128); 'Südkameruner Wald: Bez. Molundu am Dscha (Ngoko) 15°12' ö L., 2° n. Br., Nginda 21 km nördlich Molundu, Januar 1911', *G.W.J. Mildbraed 4192* (B20 0121826!, B20 0121853, B20 0121854, syn.); 'Südkameruner Waldgebiet: Bez. Ebolowa, zwischen Posten Sangmelima und Ebolowa, An *Raphia*-Stämmen kletternd, 1911', *G.W.J. Mildbraed 5554* (B20 0121856, B20 0121857, B20 0121858, B20 0121859!, syn.).

*A. sorbifolium* sensu Baker, Flora of Mauritius and the Seychelles: 513 (2 Aug. 1877b), non L. (1753: 1069).

Distribution: Angola, Bioko, Cameron, Kenya, Madagascar, Mozambique, Pemba, South Africa, Tanzania, Uganda, Zanzibar, Zimbabwe.

See Plate 5A.

### WOODWARDIA

**Woodwardia** *Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 411 (1793). Type: *Woodwardia radicans* (L.) Sm.; *Blechnum radicans* L.

**Woodwardia radicans** *(L.) Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 412 (1793).

*Blechnum radicans* L., Mantissa plantarum, altera: 307 (1771).
Provenance: 'Habitat in Virginiae et Maderae rimis rupium profundis argillaceis. *König*', Type: Not designated.

Distribution: Algeria (naturalised).

## CRYPTOGRAMMACEAE

**Cryptogrammaceae** *Pic.Serm*. in Webbia 17,2: 299 (20 Apr. 1963). Type: *Cryptogramma* R.Br.

### CONIOGRAMME

**Coniogramme** *Fée*, Cinquième mémoires sur la famille des fougères: 167, fig. 14, t. 1, 2 (1852), nom. cons.

**Coniogramme africana** *Hieron*. in Hedwigia 57: 293–295 (1916).
Type: 'Kamerun: in faucibus humidis ad occasum solis spectantibus prope Buea alt. s. m. c. 1 250 m, 21. m. Januarii 1891', *P.R. Preuss 606a* (B20 0038928!, B20 0038929!, syn.); 'In montibus prope Buea, Januario 1900', *Deistel 441* (B20 0038927, B20 0038930, syn.); Cameroon. 'In silvis raris fruticosis prope Mfongu, 31. M. Octobris 1909', *C.L. Ledermann 5890* (B20 0038926!, syn.); 'Africa orientalis germanica: ad ripas umbrosas fluvium in monte Kibosho, alt. s. m. 2 000 m montibus Kilimandscharo', 1907, *Daubenberger* in Rosenstock Fil.-Exsic. 51 (B20 0038933!, B20 0038934!, K 000435450!, syn.); 'In silva pluviali Rungwe alt. S. m. 2 000 m prope Kyimbila haud procul a Langenburg in regione septentrionali lacus Nyassa, nomine 'lukeke', Septembris 1911', *Deistel 441* (B20 0038927!, B20 0038930!, syn.); *Stolz 905* (B20 0038935!, B20 0038936!, K000435449!, syn.).

*Asplenium mary-annae* G.Kunkel in Nova Hedwigia 6,1/2: 207, t. 49 (1963b).
Type: 'Liberia, Mt Nimba, 900–1 100 m Höhe, am Boden im Bergwald', *G. Kunkel F-114* (Herb. Kunkel, holo.).

*Diplazium fraxineum* D.Don, Prodromus florae nepalensis: 12, 13 (26 Jan.–1 Feb. 1825).
Type: 'Hab. in Nepaliâ', *Hamilton s.n*. (not located).

*C. fraxinea* (D.Don) Diels in Die natürlichen Pflanzenfamilien 1,4: 262 (Oct. 1899b).

*Gymnogramma serrulata* sensu Kuhn, Filices africanae: 61 (Oct. 1868), non Blume (1828: 113).

Chromosome number: n = ± 60 (Manton 1959: 78).

Distribution: Bioko, Burundi, Cameroon, DRC, Ethiopia, Ghana, Kenya, Liberia, Malawi, Nigeria, Rwanda, São Tomé, Tanzania, Uganda.

**Coniogramme madagascariensis** *C.Chr*. in Dansk Botanisk Arkiv 7: 109, 110 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo, de 1 000 à 1 700 m d'alt. Mai 1909', *H. Perrier de la Bâthie 7715* (BM!, holo.; P00483355!, P00483373!, plus 3 more sheets, iso.).

*Gymnogramma serrulata* Blume, Enumeratio plantarum Javae 2: 113 (15 Dec. 1828).
Type: 'Crescit in umbrosis Javae interioris ad ripas fluviorum', *sine coll. s.n.* (not located).

*C. fraxinea* Diels var. *serrulata* (Blume) Alderw., Malayan ferns: 527 (1909).

*C. fraxinea* Diels var. *serrulata* (Blume) Bonap. f. *tripinnata* Bonap. in Notes Ptéridologiques 16: 79 (14 Apr. 1925a).
Type: Madagascar. 'Mont Tsaratanana. Vers 1 700 mètres d'altitude. Forêts à sous-bois herbacè. Endroits humides, Janvier 1923', *H. Perrier de la Bâthie 15624* (P00483357!, P00483358!, P00483359!, holo.).

*C. madagascariensis* C.Chr. var. *tripinnata* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 45 (Feb. 1932a).

Distribution: Madagascar, Réunion.

## DAVALLIACEAE

**Davalliaceae** *R.H.Schomb*., Reisen in British-Guiana 2: 883 (12–15 Jul. 1848). Type: Based on *Davallieae* Gaudich.

*Davallieae* Gaudich., Voyage autour du monde, entrepris par ordre du roi, …. Exécuté sur les corvettes de S.M. l'Uranie *et al.* Physicienne 9: 370 (18 Jul. 1829).

### DAVALLIA

**Davallia** *Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 414, t. 9, fig. 6 (1793). Lectotype: *Davallia canariensis* (L.) Sm.; *Trichomanes canariensis* L., designated by Nooteboom (1994: 155).

**Davallia canariensis** *(L.) Sm*. in Mémoires de l'Académie Royale des Sciences de Turin 5: 414, t. 9, fig. 6 (1793).

*Trichomanes canariensis* L., Species plantarum 2: 1099 (1 May 1753).
Provenance: 'Habitat in Canariis, Lusitania, ad latera montium'. Type: None designated.
Note: Nooteboom (1994: 176) indicated Loefling material in herb. LINN as the type. He did not indicate whether it is sheet 1253.10 or 1253.12, neither of which are from Loefling, and they are evidently not from a single gathering. Art. 9.15 [McNeill *et al.* (2006)] does not apply.

Distribution: Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo, Brava), Morocco.

**Davallia chaerophylloides** *(Poir.) Steud*., Nomenclator botanicus 2: 146 (Sep.–Oct. 1824).

*Trichomanes chaerophylloides* Poir. in Encyclopedie méthodique, Botanique 8: 80 (22 Aug. 1808).
Type: 'Cette plante croît à l'île de Madagascar', *sine coll. s.n*. (G-DC, syn.; P!, syn.).

*Humata chaerophylloides* (Poir.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 325 (Jul. 1827).

*D. nitidula* Kunze in Linnaea 10: 545 (1836).
Type: "Omsamculo, ad rupes", *J.F. Drége s.n.* (LZ†, syn.); (BM!, lecto.), designated by Roux (1986: 374).

*D. vogelii* Hook., Species filicum 1,3: 168, pl. 59B (Jan.–Sep. 1845).
Type: 'Fernando Po', *T. Vogel s.n.* (K, holo.).

*D. denticulata* (Burm.f.) Mett. ex Kuhn var. *intermedia* Mett. ex Kuhn, Filices africanae: 158 (Oct. 1868).
Type: 'Insulae Sechellae. In collinis, Aug. 1863', *O. Kersten 70* (not located).

*D. denticulata* (Burm.f.) Mett. ex Kuhn var. *vogelii* (Hook.) Bonap. f. *camerounensis* Bonap. in Notes Ptéridologiques 7: 224 (14 Oct. 1918b).
Type: 'Bassin du Mungo: entre le vilage de Ndo, sur le Mungo et la gare de Mujuka, au kilomètre 59 du Chemin de fer du Nord; dans le forêt au bord des Marigots et dand les lieux frias, Juin 1917', *F. Fleury 18* (P?, holo.).

*D. denticulata* (Burm.f.) Mett. ex Kuhn var. *vogelii* (Hook.) Bonap. f. *latisora* Bonap. in Notes Ptéridologiques 14: 267, 268 (23 Nov. 1923b).
Type: 'Mboga. Savane herbeuse. Dans les fentes des rochers. Le 14 juillet 1914', *J.C.C. Bequaert 5017* (P?, syn.); 'Congo belge. Mobwasa. Le 18 avril 1914', *F.M.C. Vermoesen 281* (P?, syn.).

*D. denticulata* (Burm.f.) Mett. ex Kuhn var. *bicornis* C.Chr. in Dansk Botanisk Arkiv 7: 76, pl. 25, figs 4, 5 (Oct. 1932b).

*D. chaerophylloides* (Poir.) Steud. var. *bicornis* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,2: 178 (Apr. 1956d).

*D. denticulata* Mett. var. *stenochlamys* C.Chr. in Dansk Botanisk Arkiv 7: 76, pl. 25, figs 6, 7 (Oct. 1932b).
Type: Madagascar. 'Near Fort Dauphin, Manantantely, 60–300 m', *H. Humbert 5738* (BM?, holo.).

*D. schnellii* Tardieu in Notulae Systematicae (Paris) 13,4: 372, t. 1 (1948c).
Type: 'Guinée: massif du Ziama, mai 1945', *R.A.A. Schnell 2734* (P00483318!, holo.; P00483319!, P00483320!, iso.).

*D. chaerophylloides* (Poir.) Steud. var. *stenochlamys* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,2: 178 (Apr. 1956d).

*D. mauritiana* Hook., Species filicum 1,3: 164, pl. 55B (Jan.–Sep. 1845).
Type: 'Mauritius', *W. Bojer s.n.* (K000435780, syn.); Mauritius, *D. Carmichael s.n.* (K000435779, syn.).

*Stenolobus mauritianus* (Hook.) C.Presl, Epimeliae botanicae: 99 (1851).

*D. chaerophylloides* (Poir.) Steud. var. *mauritiana* (Hook.) Tardieu in Notulae Systematicae (Paris) 15,2: 178 (Apr. 1956d), nom. nud. (McNeill *et al.* (2006) Art. 33.4).

Chromosome number: n = 120 (Manton 1959: 79).

Note: Nooteboom (1994: 178, 179) placed the African *D. chaerophylloides* as a synonym of *D. denticulata* (Burm.f.) Mett. ex Kuhn. Molecular studies by Chie *et al.* (2008: 44–48), however, concluded that the African *D. chaerophylloides* is distinct from, but allied to *D. denticulata*.

Distribution: Angola, Benin, Bioko, Burundi, Cameroon, Central African Republic, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Mauritius, Mozambique, Nigeria, Rodrigues Isl., São Tomé, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

See Plate 5B.

### HUMATA

**Humata** *Cav.*, Descripción de las plantas 1: 272 (1801a). Type: *Humata ophioglossa* Cav., now *Davallia heterophylla* J.Sm.

**Humata repens** *(L.f.) Diels* in Die natürlichen Pflanzenfamilien 1,4: 209 (Oct. 1899b).

*Adiantum repens* L.f., Supplementum plantarum: 446 (Apr. 1782).
Type: 'Habitat in Isle de France', *P. Sonnerat per A. Thouin s.n.* (P00301526!, iso.).

*Davallia repens* (L.f.) Kuhn, Filices africanae: 27, 158 (Oct. 1868).

*D. pedata* Sm. in Mémoires de l'Academie Royale des Sciences de Turin 5: 415 (1793).
Type: 'Habitat in Insula Mauritii', *sine coll. s.n.* (not located).

*H. pedata* (Sm.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 416 (1841).

*D. pellucida* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 316 (Jul. 1827).
Type: 'Habitat in insula Mascareigne', *sine coll. s.n.* (?P, holo.).

*D. pinnatifida* Baker in Journal of the Linnean Society, Botany 24: 257 (1888b).
Type: 'Niah, Sarawak', *C. Hose s.n*. (K?, holo.).

*H. pinnatifida* (Baker) Bedd., A supplement to the ferns of British India: 12 (1892).

Distribution: Cameroon, Comoro Isl., Equatorial Guinea, Gabon, Madagascar, Mauritius, Príncipe, Réunion, São Tomé, Seychelles.

## DENNSTAEDTIACEAE

**Dennstaedtiaceae** *Lotsy*, Vortrage über botanische Stammesgeschichte gehalten an der Reichsuniversitat zu Leiden 2: 655 (9 Aug. 1909), as '*Dennstaedtineaceae*'. Type: *Dennstaedtia* Bernh.

*Polypodiaceae* Bercht. & J.Presl subfam. *Dennstaedtioideae* C.Chr. in Manual of pteridology: 534 (3 Apr. 1938). Type: *Dennstaedtia* T.Moore, nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Dennstaedtiaceae* Pic.Serm. subfam. *Dennstaedtioideae* tr. *Dennstaedtiae* W.C.Shieh in Journal of Science and Engineering, National Chung-Hsing University 10: 193, 194 (1973). Type: *Dennstaedtia* T.Moore.

*Hypolepidaceae* Ching subfam. *Dennstaedtioideae* (C.Chr.) Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), nom. nud. [McNeill *et al.* (2006) Art. 41.1 (b)]. Type: *Polypodiaceae* Bercht. & J.Presl subfam. *Dennstaedtioideae* C.Chr., nom. nud. See below, same applies here

*Hypolepidaceae* Ching in Sunyatsenia 5: 205, 221 (1940), nom. nud. [McNeill *et al.* (2006) Art. 36.1].

*Hypolepidaceae* Pic.Serm. in Webbia 24,2: 705, 706 (28 Apr. 1970a). Type: *Hypolepis* Bernh.

*Hypolepidaceae* Ching subgen. *Hypolepidoideae* Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), nom. nud. [McNeill et al. (2006) Art. 41.1]. Type: *Hypolepis* Bernh.

*Dennstaedtiaceae* Pic.Serm. subfam. *Paesioideae* W.C.Shieh in Journal of Science and Engineering, National Chung-Hsing University 10: 202 (1973). Type: *Paesia* A.St.-Hil.

*Dennstaedtiaceae* Pic.Serm. subfam. *Paesioideae* W.C.Shieh tr. *Paesiaeae* W.C.Shieh subtrib. *Paesiaeae* W.C.Shieh in Journal of Science and Engineering, National Chung-Hsing University 10: 202, 203 (1973).

*Pteridaceae* Ching in Acta Phytotaxonomica et Geobotanica 13,1: 96 (1975). Type: *Pteridium* Gled. ex Scop.

## BLOTIELLA

**Blotiella** *R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 96 (1962b). Type: *Blotiella glabra* (Bory) R.M.Tryon; *Lonchitis glabra* Bory.

**Blotiella bouxiniana** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 262, 264, fig. 14 (30 Jun. 1983a).
Type: 'Rwanda, Pref. Cyangugu, monti a SE del lago Kivu, a 51 km da Bukavu lungo la strada per Butare, ± 2 500 m, terrestre, in luogo molto ombroso nella foresta umida montana, in una forra a valle della strada, 15.VIII.1956', *R.E.G. Pichi Sermolli 5307* (FI-PS 20778, holo.).

Distribution: Rwanda.

**Blotiella cadetii** *Tardieu* in Bulletin du Muséum d'Histoire Naturelle. Paris, sér. 4, 6,2: 196 (1984).
Type: 'La Réunion, Plateau de Bédour, 1500 m, 1.2.1973', *L.J.T. Cadet 4075* (P, holo.).

Distribution: Réunion.

**Blotiella coriacea** *Verdc*. in Flora of tropical East Africa, Dennstaedtiaceae: 21 (2000a).
Type: 'Tanzania, S Uluguru Mts, above Kibungo mission', *T. Pócs & N.G. Lundqvist 6477/c* (EA, holo.).

Distribution: Tanzania.

**Blotiella coursii** *(Tardieu) Rakotondr. ex J.P.Roux*, comb. nov.

*Lonchitis coursii* Tardieu in Bulletin du Muséum d'Histoire Naturelle. Paris, ser. 2, 29,3: 293, 294 (1957a).
Type: Madagascar. 'Centre: massif de l'Andrangovalo, réserve no 3, dite de Zakamena, 800–1 000 m', *H. Humbert & G. Cours 17723* (P00482709!, P00482710!, holo.; P00482711!, P00482712!, P00482713!, P00477899!, P00477900!, iso.).

*B. coursii* (Tardieu) Rakotondr. in The natural history of Madagascar: 299 (2003), nom. nud. [McNeill *et al.* (2006) Art. 33.4]

Distribution: Madagascar.

**Blotiella crenata** *(Alston) Schelpe* in Boletim da Sociedade Broteriana sér. 2, 41: 211 (1967).

*Lonchitis crenata* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 18 (1956a).
Type: 'B. Congo: Panzi', *P.H. Callens 2920* (BM, holo.).

Distribution: Angola, Burundi, DRC, Tanzania, Zambia.

**Blotiella currorii** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 99 (1962b).

*Pteris currorii* Hook., Species filicum 2,7/8: 232, 233, pl. 140, t. 1–4 (Jan.–Sep. 1858), as '*currori*'.
Type: 'Angola, near Elephants Bay', *A.B. Curror s.n*. (K000351003!, K000351004!, K000351005!, syn.).

*Lonchitis currorii* (Hook.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 10 (Aug.–Sep. 1879).

*P. mannii* Baker in Synopsis filicum 5: 168 (8 Jul. 1867c).
Type: 'Fernando Po', *G. Mann s.n*. (K000350998!, K000350999!, K000351000!, holo.; P00482705!, iso.).

*Litobrochia mannii* (Baker) J.Sm., Historia filicum: 291 (Oct.–Dec. 1875).

*Lonchitis mannii* (Baker) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 18 (1956a).

*B. mannii* (Baker) Pic.Serm. in Webbia 31,1: 250 (1977a).

*Lonchitis currorii* (Hook.) Mett. ex Kuhn var. *glabrata* (H.Christ) Kümmerle in Botanikai Közlemények 14: 173 (1915).
Type: 'Congo, between Lusambo and Lomami', *É. Laurent s.n.* (BR, holo.).

Chromosome number: n = 76 (Manton 1959: 78); n = 38 (as *Lonchitis mannii*) (Manton 1959: 78).

Distribution: Angola, Benin, Bioko, Burundi, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Mali, Nigeria, Pincipe, São Tomé, Sierra Leone, Sudan, Togo, Uganda, Zambia.

**Blotiella glabra** *(Bory) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 99 (1962b).

*Lonchitis glabra* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 321 (Sep. 1804a).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (P00482716!, holo.; B-W 20131!, P0482717!, iso.).

*Pteris glabra* (Bory) Mett., Filices horti botanici lipsiensis: 59 (May–Jun. 1856a).

*L. pubescens* Willd. var. *glabra* (Bory) Baker in Synopsis filicum 4: 128 (22 Jan. 1867b).

*L. gracilis* Alston, Supplement to the Catalogue of Vascaular Plants of S. Tomé (with Principe and Annobon): 7, 8 (1956b).
Type: 'Fernando Po. Terrestrial or in mist forest, near Moka, 1 520 m', *C.D. Adams 1100* (BM, holo.).

*L. stenochlamys* Fée, Cinquième mémoires sur la famille des fougères: 142 (1852).
Type: 'Habitat ad promontorium Bonae Spei', *J.F. Drége s.n*. (BM, K000351010!, K000351011!, iso.).

Distribution: Bioko, Burundi, Cameroon, DRC, Ethiopia, Gabon, Kenya, Madagascar, Malawi, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Blotiella hieronymii** *(Kümmerle) Pic.Serm*. in Webbia 37,1: 131 (1983b).

*Lonchitis hieronymii* Kümmerle in Botanikai Közlemények 14: 174, 175 (1915), as '*hieronymi*'.
Type: Tanzania. 'Usambara: Gonja-Urwald. IX.1893', *C. Holst 4253* (W!, holo.; B, BM, K000351002!, P00511817!, iso.).
Note: proposed as being a hybrid between *L. currori* and *L. natalensis*.

Distribution: Kenya, Tanzania.

**Blotiella isaloensis** *(Tardieu) J.P.Roux*, comb. nov.

*Lonchitis isaloensis* Tardieu in Bulletin du Muséum d'Histoire Naturelle. Paris, ser. 2, 29,3: 293 (1957a).
Type: Madagascar. 'Centre: plateaux et vallées de l'Isalo, à l'ouest de Ranohira', *H. Humbert 29781* P00482718!, holo.; P00482719!, P00477901!, P00483721!, iso.).

Distribution: Madagascar.

**Blotiella madagascariensis** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 99 (23 Nov. 1962b).

*Lonchitis madagascariensis* Hook., Species filicum 2,5: 58, pl. 137 (May 1851).
Type: 'Madagascar', *R. Lyall s.n.* (K000351009!, holo.).

*Pteris madagascariensis* (Hook.) Kuhn, Filices africanae: 84 (Oct. 1868).

Distribution: Madagascar.

**Blotiella marojejyensis** *J.P. Roux*, nom. nov.

*Lonchitis coriacea Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 228, 230, fig. 2, t. 1–5 (1955f).
Type: Madagascar. 'Massif du Marojejy à l'Ouest de la rivière Manantenina, 1 500–1 700 m. Sylve à Lichens', *H. Humbert 22606* (P00482706!, holo.; P00482707!, P00482708!, P00482714!, P00482715!, iso.).

*B. coriacea* (Tardieu) Rakotondr. in The natural history of Madagascar: 299 (2003), nom. nud. (McNeill *et al.* (2006) Art. 33.4), non Verdc. (2000a: 21).

Distribution: Madagascar.

**Blotiella natalensis** *(Hook.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 99 (1962b).

*Lonchitis natalensis* Hook., Species filicum 2,5: 57, pl. 89B (May 1851).
Type: 'In umbrosis humidis terrae Natalensis, 1845', *K.W.L. Pappe s.n.* (K000351012!, holo.).

*Pteris natalensis* (Hook.) Kuhn, Filices africanae: 85 (Oct. 1868).

*L. pubescens* Willd. ex Kaulf. var. *nudiuscula* Kunze, Die Farrnkräuter 1,7: 153, 154 (11–13 Jul. 1844a).
Type: 'Port Natal', *W. Gueinzius s.n.* (not located).

*L. pubescens* sensu Sim, The ferns of South Africa, edn 2: 261, 262, pls 131, 132 (1915), p.p. quoad pl. 132, non Willd. ex Kaulf. (1824: 195).

Distribution: Angola, Burundi, Comoro Isl. (Anjouan, Grande Comore, Mohéli), Cote d'Ivoire, DRC, Guinea, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Seychelles, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Blotiella pubescens** *(Willd. ex Kaulf.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 100 (23 Nov. 1962b).

*Lonchitis pubescens* Willd. ex Kaulf., Enumeratio filicum: 195 (Oct. 1824).
Type: Sine loc., *R. Desfontaines s.n.* (B-W 20132-01 0, holo.).

*Pteris pubescens* (Willd. ex Kaulf.) Kuhn, Filices africanae: 88 (Oct. 1868).

*Phegopteris pubescens* (Willd. ex Kaulf.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 51 (1873).

*L. tomentosa* Fée, Cinquième mémoires sur la famille des fougères: 143 (1852).
Type: 'Habitat in insula Nossé-Bé Madagascariensi', *A. Pervillié s.n.* (?P, holo.).

*L. hirsuta* sensu Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 321 (Sep. 1804a), non L. (1753: 1078).

Distribution: Madagascar, Mauritius, Réunion, Seychelles.

**Blotiella reducta** *(C.Chr.) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 191: 100 (1962b).

*Lonchitis reducta* C.Chr. in Feddes Repertorium 9: 370, 371 (1911a).
Type: Guinea, "Fouta Djallon, Pita et environs", *H. Probéguin 28* (BM, holo.; P00482720!, P00482722!, iso.).

Distribution: Bioko, Côte d'Ivoire, Guinea, Liberia, Madagascar, ?Tanzania.

**Blotiella sinuata** *(Alston) Pic.Serm.* in Webbia 37,1: 132 (1983b).

*Lonchitis sinuata* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 19 (1956a).
Type: 'B. Congo: Eala', *J. Lebrun 657* (BM, holo.; K000351001!, iso.); Zaire, Yatomela, *Carrington F/10* (BM, para.).

Distribution: DRC, Zambia.

**Blotiella stipitata** *(Alston) Faden*, Upland Kenya wild flowers: 30, fig. 31 (1974).

*Lonchitis stipitata* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 19 (1956a).
Type: 'Tanganyika: in forest Morningside, Morogoso, Ulugurus, 5000 ft.', *E.M. Bruce 16* (BM, holo.).

Distribution: Kenya, Tanzania.

**Blotiella tisserantii** *(Alston & Tardieu) Pic.Serm.* in Webbia 37,1: 132 (1983b).

*Lonchitis tisserantii* Alston & Tardieu in Tardieu, Mémoires de l'Institut Français d'Afrique Noire 28: 85, t. 13, figs 5, 6 (1953d).
Type: Central African Republic, 'Oubangui, Boukoko', *R.P. Tisserant s.n.* (P00511818!, holo.).

Distribution: Bioko, Cameroon, Central African Republic, Gabon, Nigeria, Tanzania, Uganda.

**Blotiella trichosora** *Pic.Serm.* in Bulletin du Jardin Botanique National de Belgique 53,1/2: 266, 268, fig. 15 (1983a).
Type: 'Burundi, Prov. Bururi, Kigwena, 800 m, forêt dense, bord d'un ruisseau, 1.II.1970', *J. Lewalle 4403* (FI-PS 25305, holo.; BR, iso.).

Distribution: Burundi, Tanzania, Uganda.

## DENNSTAEDTIA

**Dennstaedtia** *T.Moore*, Index filicum 1: xcvii (Apr. 1857f). Type: *Dennstaedtia cicutaria* (Sw.) T.Moore; *Dicksonia cicutaria* Sw.

**Dennstaedtia anthriscifolia** *(Bory) T.Moore*, Index filicum 2,26: 303 (1861e).

*Cheilanthes anthriscifolia* Bory ex Willd., Species plantarum, edn 4, 5,1: 461, 462 (25–27 Jun. 1810).
Type: 'Habitat in sylvis insulae Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20128-01 0, holo.; P00482696!, ?iso.).

*Dicksonia rubiginosa* Kaulf. var. *anthriscifolia* (Kaulf.) Hook. & Baker, Synopsis filicum 2: 53 (11 Dec. 1866).

*Adiantum fragile* Bojer, Hortus mauritianus: 405 (1837), non Sw. (1788: 135).
Type: 'Ile Maurice'. Croit dans les forêts épaisses et humides du Quartier-Militaire, dites Bois d'Arifat', *sine coll. s.n*. (not located).

*Dicksonia stenochlaena* Fée, Cinquième mémoires sur la famille des fougères: 335, 336 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n*. (not located).

*Dennstaedtia stenochlaena* (Fée) T.Moore, Index filicum 2,27: 315 (Dec. 1861f).

Distribution: Comoro Isl. (Grande Comore), Madagascar, Mauritius, Réunion.

## HISTIOPTERIS

**Histiopteris** *(J.Agardh) J.Sm.*, Historia filicum: 294 (Oct.–Dec. 1875). Type: *Pteris vespertilionis* Labill.

*Pteris* L. sect. *Histiopteris* J.Agardh, Recensio specierum generis Pteridis: 76 (Jul.–Oct. 1839). Type: *Histiopteris vespertilionis* (Labill.) J.Sm.; *Pteris vespertilionis* Labill. (now *Histiopteris incisa* (Thunb.) J.Sm.; *Pteris incisa* Thunb.).

**Histiopteris incisa** *(Thunb.) J.Sm*., Historia filicum: 295 (Oct.–Dec. 1875).

*Pteris incisa* Thunb., Prodromus plantarum capensium: 171 (1800).
Type: 'e Cap. b. Spei, Grootvadersbosch', *C.P. Thunberg s.n.* (UPS-Thunb 24932!, holo.; S!, iso.).

*Litobrochia incisa* (Thunb.) C.Presl, Tentamen pteridographiae: 149 (Oct. 1836).

*Phegopteris incisa* (Thunb.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani.: 51 (1873).

*Pteris vespertilionis* Labill., Novae Hollandiae plantarum specimen 2,15: 96 (Feb. 1806), pl. 245 (Aug. 1807).
Type: 'Habitat in capite Van-Diemen', *sine coll. s.n*. (not located).

*Pteris vespertilionis* Labill. var. *carmichaeliana* J.Agardh, Recensio specierum generis Pteridis: 80 (Jul.–Oct. 1839).
Type: 'Habit. in insula Tristan d'Acunha', *D. Carmichael s.n.* (K?, holo.).

*H. incisa* (Thunb.) J.Sm. var. *carmichaeliana* (J.Agardh) C.Chr. in Scientific Results of the Norwegian Antarctic Expedition 1927–1928 16: 15 (1937b).

*Pteris lessonii* Bory in Voyage autour du monde Cryptogamie 6: 276 (Nov. 1829).

Chromosome number: tetraploid, 2n = ± 200 (Manton & Vida 1968: 364).

Distribution: Angola, Ascension Isl., Bioko, Burundi, Cameroon, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Gough Isl., Guinea, Inaccessible Isl., Kenya, Liberia, Madagascar, Malawi, Nightingale Isl., Príncipe, Rwanda, São Tomé, Sierra Leone, South Africa, Tanzania, Tristan da Cunha, Uganda, Zambia, Zimbabwe.

## HYPOLEPIS

**Hypolepis** *Bernh*. in Neues Journal für die Botanik 1,2: 34 [1805] (1806). Type: *Hypolepis tenuifolia* (G.Forst.) Bernh. ex C.Presl; *Lonchitis tenuifolia* G.Forst.

**Hypolepis goetzei** *Hieron. ex Reimers* in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 12: 189, 190 (1934b).
Type: Madagascar, Ankafina (near Fianarantsoa), *J.M. Hildebrandt 4139* (B, syn.; BM, P00482697!, isosyn.); Between R. Mangoro and R. Matitana, Tanala, *L. Kitching s.n*. (K, syn.); Pic d'Ivohibe, *H. Humbert 3324* (BM, syn.).

*H. rugosula* (Labill.) J.Sm. var. *africana* C.Chr. in Dansk Botanisk Arkiv 7: 121 (Oct. 1932b).
Type: 'Ankafina' *J.M. Hildebrandt 4139* (P00482697!, P00482698!, isosyn.); 'Pic d'Ivohibe', *H. Humbert 3324* (P00482699!, P00482700!, P00482701!, isosyn.); 'Tanala', *L. Kitching s.n*. (not located).

*Dryopteris punctata* (Thunb.) C.Chr. subsp. *rugosula* sensu Bonap., Notes Ptéridologiques 14: 211 (23 Nov. 1923a), non *Polypodium rugosulum* Labill. (1806: 92).

*H. rugosula* sensu Faden, Upland Kenya wild flowers, edn 2: 29, fig. 31 (1974), non (Labill.) J.Sm. (1846: 8).

*H. tenuifolia* sensu Peter in Feddes Repertorium, Beiheft 40,1: 42 (1929), p.p., non (G.Forst.) Bernh. (1806: 34).

*H. villoso-viscida* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 6 fig. 1, t. 3–5 (May 1958b), p.p., non (Thouars) Tardieu (1958b: 6), s. str.

Distribution: Bioko, DRC, Ethiopia, Kenya, Madagascar, Rwanda, Tanzania, Uganda.

**Hypolepis sparsisora** *(Schrad.) Kuhn*, Filices africanae: 120 (Oct. 1868).

*Cheilanthes sparsisora* Schrad. in Göttingische Gelehrte Anzeigen 1818: 918 (1818).
Type: 'Capplant', *M. Hesse s.n*. (GOET!, holo.).

*Phegopteris sparsisora* (Schrad.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 51 (1873).

*C. aspera* Kaulf., Linnaea 6: 186, 187 (1831).
Type: 'In einer Kluft bei dem Wasserfall auf der östlichen Seite des Teufelsberges, 01/1820', *C.F. Ecklon s.n*. (LZ†, holo.; L, iso.).

*H. aspera* (Kaulf.) C.Presl, Tentamen pteridographiae: 162 (Oct. 1836).

*C. commutata* Kunze in Linnaea 10: 542, 543 (1836).
Type: "Inter Plettenbergsbaai et Langkloof prope Roodemuur, in valle sylvatica ad rivulum, 500 m", *J.F. Drége s.n*. (B20 0075115!, lecto.), designated by Roux (1986: 373); (K, isolecto.).

*Adiantum altissimum* Bojer, Hortus mauritianus: 405 (1837).
Type: 'Ile Maurice. Coit dans les forêts sombres et humides des gorges de la Riviére Noire', *sine coll. s.n*. (not located).

*C. anthriscifolia* sensu Schltdl., Adumbrationes plantarum 5: 52 (1832), qoad spec. *Mundt & Maire*, non Willd. (1810: 461).
Type: 'Inque Promontorio bonae spei', *J.L.L. Mund & L. Maire s.n*. (not located).

*H. anthriscifolia* (Schltdl.) C.Presl, Tentamen pteridographiae: 162 (Oct. 1836).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan), DRC, Ethiopia, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Hypolepis villoso-viscida** *(Thouars) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—10) Aspidiacées]: 6, fig. 1, t. 3–5 (May 1958b).

*Polypodium villoso-viscidum* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 33 (Oct. 1808).
Type: "Tristan d'Acunha", *L.-M.A. du Petit-Thouars s.n*. (P00522442, P00522443, holo.).

*H. rugosula* (Labill.) J.Sm. var. *villoso-viscida* (Thouars) C.Chr., Scientific Results of the Norwegian Antarctic Expedition to Tristan da Cunha 1937–1938 6: 15 (1940).

*Polypodium viscidum* Roxb. in Tracts relative to the island of St Helena: 319 (Jan. 1816).
Type: St Helena, *J. Roxburgh s.n*. (BM, holo.).

*Cheilanthes viscosa* Carmich. in Transactions of the Linnean Society of London 12: 511 (1818).
Type: Tristan da Cunha, 'In the wood', *D. Carmichael s.n*. (K, holo.; BM, iso.).

*H. helenensis* Fée, Cinquième mémoires sur la famille des fougères: 147 (1852).
Type: 'Habitat in insulâ Sanctae Helenae, *H. Cuming 433* (K000350990!, K000350991!, holo.; P00522513, P00522514, iso.).

*Gymnogramme helenensis* (Fée) Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 79, 80 (1857b).

*Phegopteris helenensis* (Fée) Kuhn, Filices africanae: 122 (Oct. 1868).

*H. punctata* (Thunb.) Mett. ex Kuhn, Filices africanae: 120 (Oct. 1868), p.p.

*H. punctata* sensu Hieron. in Botanische Jahrbücher 28: 345 (1900a), quad *Goetze 287*, non (Thunb.) Kuhn (1868: 120).

*Polypodium punctatum* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 168 [1884] (Mar.–Jun. 1885b).

*Polypodium punctatum* Thunb. var. *rugulosum* (Labill.) Hook. & Baker, Synopsis filicum 8: 312 (8 Nov. 1867d).

Chromosome number: tetraploid, 2n = 208 (Manton & Vida 1968: 364).

Distribution: Gough Isl. Inaccessible Isl., Nightingale Isl., South Africa, St Helena, Tristan da Cunha.

See Plate 5C.

## MICROLEPIA

**Microlepia** *C.Presl*, Tentamen pteridographiae: 124, 125, pl. 4, figs 21–23 (Oct. 1836). Type: *Microlepia polypodioides* (Sw.) C.Presl; *Dicksonia polypodioides* Sw. (now *Microlepia speluncae* (L.) T.Moore; *Polypodium speluncae* L.).

*Scyphofilix* Thouars, Genera nova madagascariensia, secundum methodum Jussiaeanum disposita: 1 (17 Nov. 1806).
Note: the name was published without an included species. Kunze (1837: 38) suggested that it might be *Dicksonia madagascariensis* Kunze (= *Dennstaedtia madagascariensis* (Kunze) Tardieu) while Pichi Sermolli (1977d: 499) suggested that the genus might be synonymous with *Microlepia*.

**Microlepia fadenii** *Pic.Serm*. in Webbia 27,2: 406, 407, fig. 6 [1972] (28 Feb. 1973a).
Type: 'Tanzania; T6, Morogoro Region: Uluguru Mts, Mwere Valley, Alt. 1 450–1 650 m. Wet intermediate evergreen forest with abundant ferns and epiphytes. Common. 26 Sept. 1970', *R.B. Faden, et al. 70/619* (FI-PS 25642, 26363, 26364, holo.; EA, K000350979!–K000350985!, iso.).

Distribution: Tanzania.

**Microlepia madagascariensis** *(Kunze) C.Presl* in Epimeliae Botanicae: 95 (1851).
Type: "Antananarivo, Madagascar, 3/77", *H. Gilpin s.n.* (K000350986!, K000350987!, holo.).

*Dicksonia madagascariensis* Kunze, Analecta pteridographica: 38 (27 Aug.–2 Sep. 1837).

*Dennstaedtia madagascariensis* (Kunze) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 11 (May 1958b).

*M. calobodon* Mett. ex Kuhn in Linnaea 36: 147, 148 (1869b).
Type: 'Madagascaria', *J. Goudot s.n.* (?B, holo.; ?K, iso.).

*Davallia calobodon* (Mett. ex Kuhn) Baker in Synopsis filicum, edn 2: 470 (Oct. 1874a).
Note: a specimen at Kew contains two fragments with a label in the hand of Kunze naming it "*Dicksonia* (*Selenodium*) *madagascariensis* mihi analecta pteridogr." The material originates from "Madagascar" and is a collection by Goudot. This material may be authentic.

*Dennstaedtia madagascariensis* (Kunze) Tardieu var. *humbertii* Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 14 (May 1958b).
Type: Madagascar. 'Massif de l'Anjanaharibe, à l'ouest d'Andapa', *H. Humbert, R. Capuron et G. Cours 24534* (P, holo.; K000350988!, iso.).

*Dennstaedtia madagascariensis* (Kunze) Tardieu var. *hirsuta* Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 12, 14, fig. 2, t. 8–10 (May 1958b).
Type: 'Fénérive', *R. Decary 3943* (P?, syn.); 'Province d'Andovoranto', *R. Viguier et H. Humbert 791, 958, H. Humbert 797* (P?, syn.); 'Bemainty', *G. Cours 4224* (P?, syn.); 'forêt d'Analamazaotra', *H. Perrier de la Bâthie 6063, 6096* (P?, syn.).

*Dicksonia hypolepidoides* Baker in Journal of the Linnean Society, Botany 16: 197 (1877a).
Type: 'Madagascar', *H. Gilpin s.n.* (K000350986, K000350987, holo.).

Distribution: Madagascar.

**Microlepia speluncae** *(L.) T.Moore*, Index filicum 2,9: 104 (Oct. 1858b).

*Polypodium speluncae* L., Species plantarum 2: 1093, 1094 (1 May 1753).
Provenance: 'Habitat in Indiis'. Lectotype: Herb. Hermann 3, fol. 41, no. 384 (BM000621951), designated by Sledge (1982: 25).

*Aspidium speluncae* (L.) Willd., Species plantarum, edn 4, 5,1: 269 (25–27 Jun. 1810).

*Davallia speluncae* (L.) Baker in Synopsis filicum 3: 100 (22 Jan. 1867a).

*Scyphofilix speluncae* (L.) Farw. in The American Midland Naturalist 12,8: 263 (1931).

*D. polypodioides* (Sw.) D.Don var. *pubescens* Hook., Species filicum 1,3: 182 (Jan.–Sep. 1845).
Type: 'Singapore, Penang, and Martaban', *N. Wallich s.n*. (?K, syn.); 'Assam', *F. Jenkins s.n*. (?K, syn.); 'Mergui', *W. Griffith s.n.* (?K, syn.); 'Java', *H. Zollinger 513* (?K, syn.).
Note: Sledge (1957 [1956]: 524–529) recognises several varieties in this species.

Chromosome number: n = 129 (Manton 1959: 78).

Distribution: Angola, Bioko, Botswana, Burundi, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Grande Comore), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Réunion, Rwanda, São Tomé, Seychelles, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Microlepia strigosa** *(Thunb. ex Murray) C.Presl* in Epimeliae botanicae: 95 (1851).

*Trichomanes strigosum* Thunb., Flora japonica: 339, 340 (Aug. 1784).
Type: 'Crescit in Kosido, Satsuma et Nagasaki', *C.P. Thunberg s.n*. (UPS-Thunb, holo.).

Distribution: Zimbabwe (naturalised).

## PTERIDIUM

**Pteridium** *Gled. ex Scop*., Flora carniolica: 169 (15 Jun.–21 Jul. 1760), nom. cons. Type: *Pteridium aquilinum* (L.) Kuhn; *Pteris aquilina* L.

*Cincinalis* Gled., Systema plantarum a straminum situ: 290 (1764). Type: *Cincinalis aquilina* (L.) Gled. ex Trevis.

*Eupteris* Newman in The Phytologist 2: 278 (1845). Type: *Eupteris aquilina* (L.) Newman; *Pteris aquilina* L. (now *Pteridium aquilinum* (L.) Kuhn).

**Pteridium aquilinum** *(L.) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 11 (Aug.–Sep. 1879), subsp. **aquilinum**.

*Pteris aquilina* L., Species plantarum 2: 1075 (1 May 1753). Provenance: 'Habitat in Europae sylvis, praesertim caeduis'. Lectotype: '*Filix foemina*' in Fuchs, De historia stirpium commentari insignes: 596, 597 (1542), designated by R.M. Tryon (1941: 19). Epitype: Herb. Clifford: 473, *Pteris 6*? (BM 000647565), designated by Thomson (2004: 795).

*Asplenium aquilinum* (L.) Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1799,1: 310 (1799).

*Allosorus aquilinus* (L.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Eupteris aquilina* (L.) Newman, The Phytologist 2: 278 (1845).

*Paesia aquilina* (L.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 22 (1873).

*Cincinalis aquilina* (L.) Gled. ex Trevis. in Atti della Società Italiana di Scienze Naturali 17: 239 [1874] (1875).

*Ornithopteris aquilina* (L.) J.Sm., Historia filicum: 298 (Oct.–Dec. 1875).

*Pteridium aquilinum* (L.) Kuhn subsp. *typicum* R.M.Tryon in Rhodora 43: 15, pl. 650, fig. 2, pl. 651, fig. 4, map 4 (15 Jan. 1941), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Pteridium aquilinum* subsp. *aquilinum.*

Distribution: Algeria, Morocco, Tunisia.

**Pteridium aquilinum** *(L.) Kuhn* subsp. **capense** *(Thunb.) C.Chr*., Index filicum: 591 (2 Jul. 1906).

*Pteris capensis* Thunb., Prodromus plantarum capensium: 172 (1800).
Type: Promontorio bonae Spei, *C.P. Thunberg s.n*. (UPS-Thunb 24896!, holo.; UPS-Thunb 24897, iso.).

*Allosorus capensis* (Thunb.) Pappe & Rawson, Synopsis filicum Africae australis: 32 (Jan.–Jul. 1858), non C.Presl (1836: 152).

*Pteridium capense* (Thunb.) Krasser in Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums, Wien 15: 4 (1900).

*Pteris coriifolia* Kunze in Linnaea 18: 120 (1844b).
Type: 'Ad promontorio bonae spei', 1841, *W. Gueinzius s.n*. (LZ?, holo.).

*A. coriifolius* (Kunze) Pappe & Rawson, Synopsis filicum Africae australis: 31, 32 (Jan.–Jul. 1858).

*Pteris lanuginosa* Bory ex Willd., Species plantarum, edn 4, 5,1: 403 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20023!, 2 sheets, syn.).

*Pteris aquilinum* L. var. *lanuginosa* (Bory ex Willd.) Hook., Species filicum 2,7/8: 196 (Jan.–Sep. 1858).

*Pteridium aquilinum* (L.) Kuhn var. *lanuginosum* (Willd.) Kuhn in Über die Hochgebirgsflora des tropischen Afrika: 94 (1 Mar. 1892).

Distribution: Angola, Bioko, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Nicolau, Santiago, Fogo, Bravo), Central African Republic, Comoro Isl., Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mozambique, Mauritius, Nigeria, Pemba, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Socotra, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

**Pteridium aquilinum** *(L.) Kuhn* subsp. **centrali-africanum** *Hieron. ex R.E.Fr*., Wissenschaftliche Ergebnisse der Schwedischen Rhodesia-Kongo Expedition 1911–1912 1: 7, 8 (1914).
Type: Congo, Stanley Pool, 1888, Fr. *Hens*, Serie B, no. 59 (BR00000830021!, lecto.), designated by Tardieu-Blot (1964b: 71); (B20 0121851; BR00000830021, P00370366, P00370367, iso.); Angola, Benguela. Elcude, 15°05' östl, Länge 12°44' südl. Breite, 1 360 m, 1–30/09/1907, *F.C. Welman 1254* (B20 0121850, syn.); Nordost-Rhodesia: Mokawe ad Bangwedo, in sylvis aridis minus densis, 16/10/1911, *R.E. Fries 1011* (B20 0121849, syn.); Deutsch-Ostafrika. Abhänge im Myaka-Tal, 23/01/1901 *W. Brusse 944* (B20 0121852, K000350992!, K000350993!, P00370365!, syn.).

*Pteridium aquilinum* (L.) Kuhn subsp. *caudatum* (L.) Bonap. var. *africanum* Bonap. in Notes Ptéridologiques 1: 62 (14 Jul. 1915a).
Type: 'Afrique Orientale allemande. Magaba-Thal', *W. Brusse 944* (P00370365, holo.; B20 0121852, EA, iso.).

*Pteridium aquilinum* (L.) Kuhn var. *africanum* (Bonap.) R.M.Tryon in Rhodora 43: 51 (Feb. 1941).

*Pteridium centrali-africanum* (Hieron.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 22 (1956a).

*Pteris caudata* auct. non L. (1753: 1075).

Distribution: Angola, Burundi, Congo, DRC, Gabon, Malawi, Mozambique, Rwanda, Tanzania, Zambia, Zimbabwe.

**Pteridium esculentum** *(G.Forst.) Cockayne*, Report on a botanical survey of the Tongariro National Park: 34 (1908).

*Pteris esculenta* G.Forst., De plantis esculentis insularum oceani australis commentatio botanica: 74 (Oct. 1786a).
Type: 'In sylvis insularum Societatis', *G. Forster s.n*. (BM, lecto.), designated by Brownsey (1989: 117).

Distribution: Tardieu-Blot (1958b: 68) reported the species as a possible introduction to Madagascar.

## DRYOPTERIDACEAE

**Dryopteridaceae** *Herter* in Revista Sudamericana de Botánica 9,1: 15 (Jun. 1949c), nom. cons., over Peranemaceae Ching (1940a: 208, 246). Type: *Dryopteris* Adans.

*Polypodiaceae* subfam. *Elaphoglossoideae* C.Chr. in Manual of pteridology: 549 (3 Apr. 1938), nom. nud. [McNeill *et al.* (2006) Art. 36.1 & 41.1]. Type: *Elaphoglossum* Schott ex J.Sm.

*Elaphoglossaceae* (C.Chr.) Herter in Revista Sudamericana de Botánica 6,5/6: 131 (Jun. 1940), nom. nud. [McNeill *et al.* (2006) Art. 41.1].

*Didymochlaenaceae* Ching in Sunyatsenia 5: 253 (1940a), nom. nud. [McNeill *et al.* 2006 Art. 36.1].

*Elaphoglossaceae* Ching in Sunyatsenia 5,4: 265 (30 Oct. 1940a), nom. nud. [McNeill *et al.* (2006) Art. 36.1].

*Elaphoglossaceae* Herter in Revista Sudamericana de Botánica 9,1: 21 (1949c), nom. nud. [McNeill *et al.* (2006) Art. 36.1].

*Elaphoglossaceae* Pic.Serm. in Webbia 23,1: 209, 210 (20 Nov. 1968b). Type: *Elaphoglossum* Schott ex J.Sm.

*Aspidiaceae* Mett. ex A.B.Frank subfam. *Elaphoglossoideae* (Pic.Serm.) Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 154 (30 Jul. 1975).

*Lomariopsidaceae* Alston tr. *Bolbitideae* Pic.Serm. in Webbia 23,2: 381 (20 Nov. 1969b). Type: *Bolbitis* Schott.

*Bolbitidaceae* Ching in Acta Phytotaxonomica Sinica 16,3: 16 (Aug. 1978b), based on *Lomariopsidaceae* Alston tr. *Bolbitideae* Pic.Serm. in Webbia 23,2: 381 (30 Jun. 1969b).

*Dryopteridaceae* Herter subfam. *Polystichoideae* Fraser-Jenk. in A revised handbook to the flora of Ceylon 15,A: 101 (2007). Type: *Polystichum* Roth.

## ARACHNIODES

**Arachniodes** *Blume*, Enumeratio plantarum Javae 2: 241, 242 (15 Dec. 1828). Type: *Arachniodes aspidioides* Blume.

**Arachniodes bella** *(C.Chr.) Ching* in Acta Botanica Sinica 10,3: 261 (1962).

*Dryopteris bella* C.Chr. in Notes Ptéridologiques 16: 164, 165, pl. VIII (14 Apr. 1925b).
Type: Madagascar. Région floristique du Centre. Massif de Manongarivo, sur le gneiss. Rocailles vers 1 000 mètres d'altitude. Juin et mai 1909', *H. Perrier de la Bâthie 7439* (P00483193, holo.; P00483194, P00483195, iso.).

*Polystichopsis bella* (C.Chr.) Tardieu in American Fern Journal 48,1: 33 (17 Apr. 1958a).

Distribution: Madagascar.

**Arachniodes webbiana** *(A.Braun) Schelpe* subsp. **foliosa** *(C.Chr.) Gibby, Rasbach, Reichst., Widén & Viane* in Botanica Helvetica 102: 243 (1992).

*Dryopteris foliosa* C.Chr. in Dansk Botanisk Arkiv 9,3: 61 (1937c).
Type: 'British East Africa: Mt. Kinangop, 2 350 m, in forest, Febr. 17th, 1912', *Ch. Alluaud 255* (BM, holo.).

*Arachniodes foliosa* (C.Chr.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 203 (1967).

*Aspidium aristatum* Sw. f. *laxa* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 49 (Aug.–Sep. 1879).
Type: 'Natal', *J. Buchanan 87* (not located); 'Ad flumen Sambesi', *C.J. Meller s.n.* (not located).

*Aspidium aristatum* sensu Sim, The ferns of South Africa: 169, pl. XCII (1892).

*Polystichum aristatum* sensu Sim, The ferns of South Africa, edn 2: 119, pl. 30 (1915).

Distribution: Kenya, Malawi, Rwanda, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

## BOLBITIS

**Bolbitis** *Schott*, Genera filicum 3: ad pl. 13 (1835). Lectotype: *Bolbitis serratifolia* (Mert. ex Kaulf.) Schott; *Acrostichum serratifolium* Mert. ex Kaulf., designated by Christensen (10 Oct. 1906: xxvi).

*Leptochilus* Kaulf. sect. *Bolbitis* (Schott) C.Chr. in Botanisk Tidsskrift 26: 283 (1904).

*Leptochilus* Kaulf. subgen. *Bolbitis* (Schott) C.Chr., Index filicum: XXVI (10 Oct. 1906).

*Campium* C.Presl, Tentamen pteridographiae: 238, t. 10 (22, 23) (Oct. 1836). Lectotype: *Campium virens* (Wall. ex Hook. & Grev.) C.Presl, designated by C. Christensen (10 Oct. 1906: xxvi).

*Poecilopteris* C.Presl, Tentamen pteridographiae: 241, 242, pl. 10 (18, 19), 11 (1–2) (Oct. 1836). Lectotype: *Poecilopteris punctulatum* (Sw.) C.Presl; *Acrostichum punctulatum* Sw. (1801: 12), designated by Smith (1875: 136).

*Cyrtogonium* J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 402 (1841), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Cyrtogonium* J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 154 (1842a). Type: *Cyrtogonium serratifolium* (Mert. ex Kaulf.) J.Sm.; *Acrostichum serratifolium* Mert. ex Kaulf.

*Heteroneuron* Fée in Mémoires sur la famille des fougères 2: 20 (1845a), as '*Heteronevron*'. Lectotype: *Heteronevron scalpturatum* Fée; *Bolbitis scalpturata* (Fée) Ching ex C.Chr., designated by Pichi Sermolli (1969b: 386).

*Campium* C.Presl sect. *Heteroneuron* (Fée) Copel. in The Philippine Journal of Science 37,4: 349 (Dec. 1928).

*Anapausia* C.Presl subgen. *Euryostichum* C.Presl, Epimeliae botanicae: 188 (1951). Type: Cites *A. acuminata* and *A. nicotianaefolia*.

*Bolbitis* Schott ser. *Euryostichae* (C.Presl) Hennipman in Leiden Botanical Series 2: 206 (1977).

*Bolbitis* Schott ser. *Bolbitianae* Hennipman in Leiden Botanical Series 2: 147 (1977). Type: *Bolbitis* Schott, Genera filicum (1835) pl. s.n. (13), typo incl., pro genere.

*Bolbitis* Schott ser. *Alienae* Hennipman in Leiden Botanical Series 2: 132 (1977). Type: *Bolbitis aliena* (Sw.) Alston.

*Bolbitis* Schott ser. *Bipinnatifidae* Hennipman in Leiden Botanical Series 2: 144 (1977). Type: *Bolbitis bipinnatifida* (Mett. ex Kuhn) Ching; *Chrysodium bipinnatifidum* Mett. ex Kuhn.

*Bolbitis* Schott ser. *Heudelotianae* Hennipman in Leiden Botanical Series 2: 235 (1977). Type: *Bolbitis heudelotii* (Bory ex Fée) Alston.

**Bolbitis acrostichoides** *(Afzel. ex Sw.) Ching*, Index filicum. Supplementum tertium pro annis 1917–1933: 47 (Oct. 1934b).

*Hemionitis acrostichoides* Afzel. ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 17 (1801).
Type: Sierra Leone, *A. Afzelius s.n.*, p.p. (S-PA, lecto.), designated by Hennipman (1977: 149).

*Gymnogramma acrostichoides* (Afzel. ex Sw.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 304 (1811).

*Polybotrya acrostichoides* (Afzel. ex Sw.) Mett. ex Kuhn, Filices africanae: 52 (Oct. 1868).

*Leptochilus acrostichoides* (Afzel. ex Sw.) C.Chr., Index filicum: 384 (30 Dec. 1905).

*Gymnopteris acrostichoides* (Afzel. ex Sw.) Engl. in Die Vegetation der Erde 9,2: 16 (Feb. 1908).

*Campium acrostichoides* (Afzel. ex Sw.) Copel. in The Philippine Journal of Science 37,4: 394, fig. 44, pl. 30 (Dec. 1928).

*Acrostichum afzelii* Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 277 (Mar. 1901).

*L. acrostichoides* (Afzel. ex Sw.) C.Chr. var. *cuneata* Bonap. in Notes Ptéridologiques 7: 208 (14 Oct. 1918a).
Type: 'Afrique occidentale française. Iles de Los. Colline du phare de Tamara. dans la brousse très ombragée. Entre ou sur les blocs de syénite ou de latérite, 40 à 50 mètres d'altitude. Novembre 1917', *J. Mugnier-Serand 1C", 2C", 3C"* (P00483452!, P00483453!, P00483454!, holo.).

*L. diversibasis* Bonap. in Notes Ptéridologiques 14: 216 (23 Nov. 1923a).
Type: 'Gabon. Midounga. Bord d'un ruisseau. Le 10 août 1910', *G. le Testu 1589* (P00483262!, holo.; P00477775!, P00483263!, P00483264!, iso.).

*B. diversibasis* (Bonap.) Ching, Index filicum. Supplementum tertium pro annis 1917–1933: 48 (Oct. 1934b).

*L. gemmifer* Hieron. var. *latipinnata* auct. non Hieron. (1911: 346), p.p.

*C. gemmiferum* auct. non (Hieron.) Copel. (1928: 397), p.p.

Chromosome number: n = 41 (Manton 1959: 80).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Guinea-Bissau, Liberia, Nigeria, São Tomé, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Bolbitis auriculata** *(Lam.) Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 3 (1934a).

*Acrostichum auriculatum* Lam. in Encyclopédie méthodique. Botanique 1,1: 36 (2 Dec. 1783).
Type: 'Isle de Bourbon', *P. Sonnerat per A. Thouin s.n*. (C (Herb. Vahl), S-PA (Herb. Swartz), iso.).

*Leptochilus auriculatus* (Lam.) C.Chr., Index filicum: 384 (30 Dec. 1905).

*Gymnopteris auriculata* (Lam.) Engl. in Die Vegetation der Erde 9,2: 16, fig. 11 (Feb. 1908).

*Campium auriculatum* (Lam.) Copel. in The Philippine Journal of Science 37,4: 398, fig. 49 (Dec. 1928).

*A. punctatum* L.f., Supplementum plantarum: 444 (Apr. 1782), nom. illeg. [McNeill *et al.* (2006) Art. 52.1], non L. (1763: 1524).
Type: 'Habitat in Isle de Bourbon', *P. Sonnerat per A. Thouin s.n*. (C (Herb. Vahl), S-PA (Herb. Swartz), iso.).

*Chrysodium punctatum* (L.f.) Mett. ex Kuhn, Filices africanae: 51 (Oct. 1868).

*G. punctata* (L.f.) H.Christ, Die Farnkräuter der Erde: 50 (Oct. 1897a).

*L. punctatus* (L.f.) C.Chr. in Svensk Botanisk Tidskrift 26: 292 (1904).

*A. punctulatum* (Sw.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 12 (1801).
Type: As for *Acrostichum punctatum* L.f.

*Poecilopteris punctulata* (Sw.) C.Presl, Tentamen pteridographiae: 242 (Oct. 1836).

*Cyrtogonium punctulatum* (Sw.) J.Sm., Journal of Botany (W.J. Hooker, ed.) 4: 154 (1842a).

*Heteroneuron punctulatum* (Sw.) Fée in Mémoires sur la famille des fougères. Premiere mémoire: 91, 92, pl. 54 (1844), as '*Heteronevron*'.

*Chrysodium punctulatum* (Sw.) Mett., Filices horti botanici lipsiensis: 21 (May–Jun. 1856a).

*A. mascarenense* Spreng., Systema vegetabilium, edn 16, 4,1: 37 (Jan. 1827).
Type: Sine loc., *F.W. Sieber s.n*. (?24) (not located).

*B. auriculata* (Lam.) Alston var. *undulato-crenata* (Hieron.) Kunkel in Bericht der Schweizerischen Botanischen Gesellschaft 73: 187 (Dec. 1963d), nom. illeg. [McNeill *et al.* (2006) Art. 33.3].

*L. auriculatus* (Lam.) C.Chr. var. *undulati-crenatus* Hieron. in Botanische Jahrbücher 46,3: 345 (1911).
Type: 'Kamerun: bei Epossi-Ntonga unweit Bipindi am Boden in Urwäldern 500 m ü. M., 18 Dezember 1897', *G.A. Zenker 1598* (B20 0130213!, B20 0130214!, lecto.), designated by Hennipman (1977: 136); 'im Urwald der Berge bei Ntonga an felsigem Weg zwischen Geröll 150 m ü. M., Januar 1904', *G.A. Zenker 2751* (B20 0130215!, B20 0130216!, P00477776!, P00483265!, syn.).

*B. fluviatilis* (Hook.) Ching var. *crenatis* G.Kunkel in Bericht der Schweizerischen Botanischen Gesellschaft 73: 188 (Dec. 1963d).
Type: 'Liberia: Western Prov., Gola Forest, 300 bis 400 m', *G. Kunkel F-200* (Herb. Kunkel).

*B. fluviatilis* sensu W.J.Harley, Handbook of Liberian ferns: 43 (1963).

Chromosome number: n = ± 82 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Grande Comore, Mayotte, Mohelli), Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Mauritius, Nigeria, Príncipe, Réunion, São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Bolbitis bipinnatifida** *(Mett. ex Kuhn) Ching*, Index filicum. Supplementum tertium pro annis 1917–1933: 47 (Oct. 1934b), non (J.Sm.) K.Iwats. (1959: 49).

*Chrysodium bipinnatifidum* Mett. ex Kuhn, Filices africanae: 50 (Oct. 1868).
Type: 'Ins. Sechellae', *L.H. Boivin s.n*. (B20 0130217!, P00483266!, P00483267!, isolecto.); 'Ins. Borboniae', *L.H. Boivin s.n*. (B20 0130217, syn.).

*Heteroneuron bipinnatifidum* (Mett. ex Kuhn) Kuhn in Die Forschungsreise S.M.S. "Gazelle" in den Jahren 1874 bis 1876 4, Farne: 6 (1889b).
Lectotype: Seychelles, Mahé, 'bois des hauts de Mahé', iv.1848, *L.H. Boivin s.n*. (P, lecto.), designated by Hennipman (1977: 145); B, BM, isolecto.).

*Leptochilus cuspidatus* (C.Presl) C.Chr. var. *bipinnatifidus* (Mett. ex Kuhn) C.Chr., Index filicum: 181 (20 Aug. 1905).

*L. bipinnatifidus* (Mett. ex Kuhn) C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 414 (Nov. 1912).

*Campium bipinnatifidum* (Mett. ex Kuhn) Copel. in The Philippine Journal of Science 37,4: 377, fig. 30 (Dec. 1928).

*Acrostichum repandum* Blume var. *quoyanum* auct., non *Acrostichum quoyanum* Gaudich. (1828: 306).

*A. repandum* auct., non Blume (1828: 104).

Distribution: Seychelles (Mahé), Silhouette Isl.

**Bolbitis ×boivinii** *(Mett. ex Kuhn) Ching* in Index filicum. Supplementum tertium pro annis 1917–1933: 47 (Oct. 1934b), p.p., pro sp.

*Chrysodium boivinii* Mett. ex Kuhn, Filices africanae: 51 (Oct. 1868), p.p.
Type: Angola. 'Golungo Alto. In shady places in the primitive woods of the Cungulungulo moutains, near Graca's house', *F.M.J. Welwitsch 156* (K, holo.; BM, iso.).

*Acrostichum boivinii* Welw. ex Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2: 2 (Mar. 1901), p.p., non Mett. ex Kuhn (1868: 43).

*Leptochilus boivinii* (Mett. ex Kuhn) C.Chr., Index filicum: 384 (30 Dec. 1905), p.p.

*Gymnopteris boivinii* (Mett. ex Kuhn) Engl. in Die Vegetation der Erde 9,2: 16 (Feb. 1908), p.p.

*Campium boivinii* (Mett. ex Kuhn) Copel. in The Philippine Journal of Science 37,4: 378 (Dec. 1928), p.p.

*A. laurentii* H.Christ in Bulletin de la Société Royale de Botanique de Belgique 36,2: 94, 95 (1897b).
Type: DRC. 'Bamanga (Lualaba) 18 janv. 1896', *É. Laurent s.n*. (BR, L, syn.); Democratic Republic of the Congo. 'Lusambo 2 déc. 1895', *É. Laurent s.n*. (BR, P, syn.).

*L. laurentii* (H.Christ) C.Chr., Index filicum: 12 (5 May 1905); 386 (12 Febr. 1906).

*B. laurentii* (H.Christ) Alston in Journal of Botany, British and Foreign 77,922: 284 (1939b).

*B. auriculata* auct., non (Lam.) Alston (1934a: 2).

Distribution: Angola, Cameroon, Central African Republic, Chad, DRC, Gabon, Madagascar, Sudan.

**Bolbitis fluviatilis** *(Hook.) Ching*, Index filicum. Supplementum tertium pro annis 1917–1933: 48 (Oct. 1934b).

*Acrostichum fluviatile* Hook., Species filicum 5,18/20: 274, 275 (Jun. 1864b).
Type: 'Fernando Po, on the banks of the river', *G. Mann 442* (K000435773, holo.; GH, iso.).

*Chrysodium fluviatile* (Hook.) Kuhn, Filices africanae: 51 (Oct. 1868).

*Poecilopteris fluviatile* (Hook.) J.Sm., Historia filicum: 137 (Oct.–Dec. 1875).

*Leptochilus fluviatilis* (Hook.) C.Chr., Index filicum: 10 (5 May 1905); 385 (12 Febr. 1906).

*Campium fluviatile* (Hook.) Copel. in The Philippine Journal of Science 37,4: 399, fig. 50, pl. 32 (Dec. 1928).

*A. phanerodictyon* Baker in Boletim da Sociedade Broteriana 4: 156, 157, pl. 4, fig. C (1886e).
Type: São Tomé, 200 m. alt., fl. Afric. exsicc. 68 (Moller, not Quintas leg.) (K000435761, holo.; B20 0130205, BM, BR, C, G, K000435762, MO, P00483346!, P00483268!, P00483269!, iso.).

*L. phanerodictyus* (Baker) C.Chr., Index filicum: 15 (5 May 1905); 387 (12 Feb. 1906).

*Gymnopteris phanerodictyon* (Baker) Engl. in Die Vegetation der Erde 9,2: 16 (Feb. 1908).

*B. phanerodictya* (Baker) Ching, in Index filicum. Supplementum tertium pro annis 1917–1933: 49 (Oct. 1934b).

*L. grossidentatus* Bonap. in Notes Ptéridologiques 14: 217, 218 (23 Nov. 1923a).
Type: 'Gabon, Mayombe Bayata, Djengila, Rochers dans les gorges de la Dougouatzi, 29 juin 1910', *G.M.P.C. leTestu 1570* (P00483371!, holo.; P00483372!, iso.).

*B. fluviatilis* (Hook.) Ching var. *crenatis* auct. non Kunkel (1963d: 188).

Distribution: Bioko, Cameroon, DRC, Equatorial Guinea, Gabon, Liberia, Príncipe, São Tomé.

**Bolbitis gaboonensis** *(Hook.) Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 3 (1934a).

*Acrostichum gaboonense* Hook., Species filicum 5,18/20: 270 (Jun. 1864b).
Type: 'Gaboon River, west tropical Africa', *G. Mann 1049* (K000435760, holo.).

*Gymnopteris gaboonensis* (Hook.) J.Sm., Ferns: British & foreign: 118 (Jun.–Jul. 1866).

*Chrysodium gaboonense* (Hook.) Kuhn, Filices africanae: 51 (Oct. 1868).

*Leptochilus gaboonensis* (Hook.) C.Chr., Index filicum: 385 (12 Feb. 1906).

*Campium gaboonense* (Hook.) Copel. in The Philippine Journal of Science 37,4: 401, fig. 51 (1928).

Distribution: Angola, Cameroon, Central African Republic, Congo, DRC, Gabon, Nigeria.

**Bolbitis gemmifera** *(Hieron.) C.Chr*., Index filicum. Supplementum tertium pro annis 1917–1933: 48 (Oct. 1934).

*Leptochilus gemmifer* Hieron. in Botanische Jahrbücher 46,3: 345, 346 (1911).
Type: 'Angola: im Gebiet von Golungo Alto', *F.M.J. Welwitsch 157b* (B20 0130195, lecto.), designated by Hennipman (1977: 263); 'Nderema-Berg Nguelo in dichten Wäldern, 24 Februar 1893', *C.H.E.W. Holst 2277* (B20 0130188, P00477878!, syn.); "Senegal", *J. Heudelot s.n*. (B 20 0130203, syn.); "Ostafrika, Usambara, 1893", *C. Holst 4268* (B20 0130190, P00477877!, syn.).

*Campium gemmiferum* (Hieron.) Copel. in The Philippine Journal of Science 37,4: 397, fig. 48 (Dec. 1928), p.p.

*Acrostichum punctatum* L.f. var. *angolense* Welw. ex Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 277 (Mar. 1901).
Type: Angola. 'Golungo Alto. In the dry dense woods of the mountains of Cungulungulo, about 2800 ft. altitude, at Montalegre', *F.M.J. Welwitsch 157* (BM, holo.; BM, K000435755, K000435756, iso.).

*L. gemmifer* Hieron. var. *latipinnata* Hieron. in Botanische Jahrbücher 46,3: 346 (1911), p.p.
Type: 'Kongo-Staat: im Urwald bei Mukenge (etwa 6° s. Br.), 22 November 1881', *P. Pogge s.n.* (B20 0130197, B20 0130198, B20 0130200, syn.); 'Kamerun: an steinigen feuchten und schattigen Abhängen bei Johann-Albrechts-Höhe, 24 November 1895', *A. Staudt 463* (B20 0130201, B20 0130202, syn.).

*B. guineensis* Tardieu in Notulae Systematicae (Paris) 13,3: 170 (1948b).
Type: 'Guinée Française: environs de Nzérékoré, Septembre 1936', *H. Jacques-Félix 1147* (P00483271!, holo.).

*L. acrostichoides* (Afzel. ex Sw.) C.Chr. var. *cuneatus* auct., non Bonap. (1924: 19).

Distribution: Angola, Burundi, Cameroon, Central African Republic, Côte d'Ivoire, DRC, Equatorial Guinea, Ghana, Guinea, Guinea-Bissau, Liberia, Madagascar, Senegal, Sierra Leone, Tanzania, Uganda, Zambia.

**Bolbitis heudelotii** *(Bory ex Fée) Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 3 (1934a).

*Gymnopteris heudelotii* Bory ex Fée, Mémoires sur la famille des fougères 2: 84, pl. 45 (1845a).
Type: 'Habitat in aquis vivis Foula-Dhiallon in Senégambia', *J. Heudelot 805* (P00483274!, holo.; B20 0130203!, K, L, OXF, iso.).

*Anapausia heudelotii* (Bory ex Fée) C.Presl, Epimeliae botanicae: 187 (1851).

*Acrostichum heudelotii* (Bory ex Fée) Hook., Species filicum 5,18/20: 264 (Jun. 1864b).

*Chrysodium heudelotii* (Bory ex Fée) Kuhn, Filices africanae: 51 (Oct. 1868).

*Leptochilus heudelotii* (Bory ex Fée) C.Chr., Index filicum: 11, 12 (5 May 1905); 385 (Feb. 1906).

*Campium heudelotii* (Bory ex Fée) Copel. in The Philippine Journal of Science 37,4: 396 (1928).

*Acrostichum heudelotii* (Bory ex Fée) Hook. var. *major* Hook., Species filicum 5,18/20: 264 (Jun. 1864b), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *A. heudelotii*.

*Acrostichum heudelotii* (Bory ex Fée) Hook. var. *minor* Hook., Species filicum 5,18/20: 264 (Jun. 1864b).
Type: 'Sierra Leone', *C. Barter s.n*. (K, syn.); Malawi, 'Mangauja country, alt. 3000 feet', *J. Kirk s.n*. (K, syn.).

*B. felixii* Tardieu, Notulae Systematicae (Paris) 13,3: 169 (1948b).
Type: 'Guinée Française: environs de Macenta, mai 1936', *H. Jacques-Félix 933* (P00483272!, P00483273!, holo.).

*Campium angustifolium* Copel. in The Philippine Journal of Science 37,4: 396, fig. 47, t. 31 (1928).
Type: 'Cameroons, Buar, altitude 1 000 m. s. m., on stones in a brook', *G.W.J. Mildbraed 9404* (K000435765, K000435766, holo.).

*B. heudelotii* (Bory ex Fée) Alston var. *angustifolia* (Copel.) Tardieu in Notulae Systematicae (Paris) 14,4: 349 (Dec. 1953c).

Distribution: Angola, Benin, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Ethiopia, Gabon, Ghana, Guinea, Liberia, Malawi, Mali, Mozambique, Nigeria, Sierra Leone, South Africa, Tanzania, Togo, Zambia, Zimbabwe.

**Bolbitis humblotii** *(Baker) Ching* in Index filicum. Supplementum tertium pro annis 1917–1933: 48 (Oct. 1934b).

*Acrostichum humblotii* Baker in Journal of Botany, British and Foreign 1884: 144 (1884c).
Type: "Madagascar", *L. Humblot 300* (K000435751, K000435752, holo.; BM, P00483275!, P00483276!, P00483277!, W!, iso.).

*Campium humblotii* (Baker) Copel. in The Philippine Journal of Science 37,4: 395, fig. 45 (1928), quoad nomen solum.

*Chrysodium boivinii* auct., non Mett. ex Kuhn (1868: 51), p.p.

Distribution: Madagascar.

**Bolbitis longiflagellata** *(Bonap.) Ching* in Index filicum. Supplementum tertium pro annis 1917–1933: 49 (Oct. 1934b).

*Campium longiflagellatum* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 32 (Feb. 1932a).

*Leptochilus longiflagellatus* Bonap. in Notes Ptéridologiques 4: 68, 69 (1917b).
Type: Madagascar. 'Région floristique de Sambirano, Massif de Manongarivo. Bois rocailleux au-dessus de 500 mètres d'altitude. Mai 1909', *H. Perrier de la Bâthie 7490*, p.p. (P00483278!, holo.; BM, P00483279!, P00483280!, P00483281!, iso.).

*C. humblotii* auct. non (Baker) Copel. (1928: 395).

*Acrostichum virens* auct., non Wall. ex Hook. & Grev. (1832: pl. 221).

*B. acrostichoides* auct., non (Sw.) Ching (1934b: 3).

Distribution: Madagascar.

**Bolbitis salicina** *(Hook.) Ching* in Index filicum. Supplementum tertium pro annis 1917–1933: 50 (Oct. 1934b).

*Acrostichum salicinum* Hook., Species filicum 5,18/20: 265 (Jun. 1864b).
Type: 'Sierra Leone', *C. Barter s.n.*, Niger Exped. (K, lecto.), designated by Tardieu-Blot (1964b: 189); "Fernando Po", *G. Mann 1332* (B20 0130206, K000435764, isosyn.).

*Campium salicinum* (Hook.) Copel. in The Philippine Journal of Science 37,4: 395, fig. 46 (1928).

*Chrysodium salicinum* (Hook.) Kuhn, Filices africanae: 52 (Oct. 1868).

*Gymnopteris salicina* (Hook.) J.Sm., Historia filicum: 138 (Oct.–Dec. 1875).

*Leptochilus salicinus* (Hook.) C.Chr., Index filicum: 387 (12 Feb. 1906).

Distribution: Bioko, Cameroon, Congo, Côte d'Ivoire, DRC, Gabon, Ghana, Guinea, Liberia, Nigeria, Sierra Leone.

## CTENITIS

**Ctenitis** *(C.Chr.) C.Chr*. in Manual of pteridology: 544 (3 Apr. 1938).

*Dryopteris* Adans. subgen. *Ctenitis* C.Chr., Biologiske Arbejder tilegnede Eug. Warming: 77 (3 Nov. 1911b).
Type: *Dryopteris ctenitis* (Link) Kunze; *Aspidium ctenitis* Link (now *Ctenitis distans* (Brack.) Ching.; *Lastrea distans* Brack.

*Dryopteris* Adans. subgen. *Ctenitis* C.Chr., Biologiske Arbejder tilegnede Eug. Warming: 77 (3 Nov. 1911b), Group of *D. subincisa*, C.Chr. in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 6,1: 32, 59 (1920a) Type: *Polypodium subincisum* Willd.

*Ctenitis* (C.Chr.) C.Chr. sect. *Subincisae* (C.Chr.) Tindale in Contributions from the New South Wales National Herbarium 3,5: 252 (1965).
Note: Holttum (1983: 116) gives: *Ctenitis submarginalis* (Langsd. & Fisch.) Ching; *Polypodium submarginale* Langsd. & Fisch.

**Ctenitis androrangaensis** *J.P.Roux*, nom. nov. for *Abacopteris anjenabensis* Tardieu, non *Ctenitis anjenabensis* Tardieu (1960c: 204).

*Abacopteris anjenabensis* Tardieu in Adansonia 5,4: 494, 495, pl. 2, figs 5–7 (1965).
Type: 'Madagascar: vallée inférieure de l'Androranga, aux environs d'Antongondriha: mont Anjenabe, 600 m, forêt ombrophile, sur gneiss', *H. Humbert & R. Capuron 24023* (P00511814, holo.; P00511815, P00511816, iso.).

*Ctenitis anjenabensis* Tardieu in Notulae Systematicae (Paris) 16,1/2: 204, pl. 1, figs 1–4 (Oct. 1960c), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: 'Madagascar; vallée de l'Androranga, aux environs d'Antongondriha, mont Anjenabe, 600 m', *H. Humbert et R. Capuron 24023* (P00511814, holo.; P00511815, P00511816, iso.).

Distribution: Madagascar.

**Ctenitis aquilina** *(Thouars) Pic.Serm*. in Webbia 28,2: 468 (1973b).

*Polypodium aquilinum* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 32 (Oct. 1808).
Type: 'l'isle d'Acugna', *L.-M.A. du Petit-Thouars s.n.* (P, holo.).

*Phegopteris aquilina* (Thouars) Mett. ex Kuhn, Filices africanae: 121 (Oct. 1868).

*Nephrodium aquilinum* (Thouars) Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 167 [1884] (Mar.–Jun. 1885b).

*Dryopteris aquilina* (Thouars) C.Chr., Index filicum: 252 (2 Oct. 1905).

Chromosome number: diploid, 2n = 82 (Manton & Vida 1968: 364).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

See Plate 5D.

**Ctenitis bivestita** *(Tauch ex Mett.) Tardieu* in Notulae Systematicae (Paris) 15,1: 85 (1955a), p.p., excl. plants from Réunion.

*Phegopteris bivestita* Tauch ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 311 (Aug. 1858).
Type: Mauritius, *F.W. Sieber*, Fl. Maurit.: 7 (not located).

Distribution: Mauritius.

**Ctenitis blepharochlamys** *(C.Chr.) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 336 (May 1958b).

*Dryopteris blepharochlamys* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 28 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 35.1(d) & Art. 41.3].

*D. blepharochlamys* C.Chr. in Dansk Botanisk Arkiv 7: 60, pl. 15, figs 1–5 (Oct. 1932a).
Type: Madagascar. Mt. Tsaratanana: Forêt à sous-bois herbacé, vers 1 600 m. alt., décembre 1922', *H. Perrier de la Bâthie 15644* (P00483073, P00483074, holo.).

Distribution: Madagascar.

**Ctenitis borbonica** *(Baker) Tardieu* in Notulae Systematicae (Paris) 15,1: 84, t. 5, figs 7–9 (1955a), excl. syn. *Nephrodium humidum* Cordem. & *Nephrodium crinitum* Desv. var. *nudatum* Baker.

*Nephrodium borbonicum* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 317, 318 (Aug. 1891a).
Type: 'Bourbon, Réunion, Ste Agathe, rochers humides, *G. de l'Isle 331* (K000351078!, holo.; P00483110, P00483111, P00483112, iso.).

Distribution: Réunion.

**Ctenitis cirrhosa** *(Schumach.) Ching* in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

*Aspidium cirrhosum* Schumach., Beskrivels af Guineeiske planter: 457 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 231, 232 (1829).
Type: 'Aquapim', *P. Thonning 302* (C, holo., 3 sheets).

*Nephrodium cirrhosum* (Schumach.) Baker in Synopsis filicum 7: 263 (Oct. 1867e), p.p.

*Dryopteris cirrhosa* (Schumach.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*N. crinibulbon* Hook., Species filicum 4,14: 92, pl. 244 (Aug. 1862c).
Type: 'S. Tomé', *G. Mann s.n.* (K000351076!, lecto.), designated by Pichi Sermolli (1968a: 170); (B20 0053376!, iso.).

*C. crinibulbon* (Hook.) Ching in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

*D. nimbaensis* Tardieu in Notulae Systematicae (Paris) 13,4: 370, 272, pl. 1, t. 9 (1948c).
Type: 'Monts Nimba, juin 1945', *R.A.A. Schnell 2877* bis (P00279993, holo.).

*N. spekei* Baker in Synopsis filicum 7: 263 (4 Oct. 1867e).
Type: 'Johanna Island', *J.H. Speke s.n.* (K000351088!, K000351089!, syn.); 'Angola', *F.M.J. Welwitsch s.n.* (not located).

*A. spekei* (Baker) Kuhn, Filices africanae: 209 (Oct. 1868).

*D. spekei* (Baker) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*N. welwitschii* Baker in Synopsis filicum 7: 274, 275 (4 Oct. 1867e).
Type: 'Angola', *F.M.J. Welwitsch 123* (K000351077!; BM, iso.).

*D. welwitschii* (Baker) Kuntze, Revisio generum plantarum 2: 814 (5 Nov. 1891).

*A. comorense* Kuhn, Filices africanae: 128 (Oct. 1868).
Type: As for *Nephrodium immersum* Hook. only, non descr.

*A. pinnatifido-serratum* Mett. ex Kuhn, Filices africanae: 139 (Oct. 1868).
Type: 'Angola, Golungo Alto', *F.M. Welwitsch 123* (K000351077; BM, iso.).

*D. trachyrachis* H.Christ ex Bonap. in Notes Ptéridologiques 15: 17 (25 Feb. 1924), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Uganda Protectorate. Kipayo, forêts. 4000 pieds d'altitude. Décembre 1912', *R. Dümmer 509* (US, holo.).

*D. pulvinata* Bonap. in Notes Ptéridologiques 16: 177, 178, pl. 6, fig. a (14 Apr. 1925a).
Type: Madagascar. 'Région floristique du Centre. Haut Bemarivo. Analamahitso. Altitude de 800 mètres. Bois humides et rocailleux. Gneiss. Août 1907', *H. Perrier de la Bâthie 7627* (P00483068, holo.; P00483069, P00483070, P00483071, iso.).

Chromosome number: n = ± 40 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl. (Grande Comore), Coté d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Réunion, São Tomé, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Ctenitis crinita** *(Poir.) Ching* in Bulletin of the Fan Memorial Institute of Biology 8,5: 290 (1938b), var. **crinita**.

*Polypodium crinitum* Poir. in Encyclopedie méthodique, Botanique 5: 528 (9 Jan. 1804).
Type: 'l'Ile-de-France', 1774, *P. Commerson s.n.* (P-LA, holo.; K, ?iso.).

*Aspidium crinitum* (Poir.) Wall., A numerical list of dried specimens: no. 357 (1829).

*Dryopteris crinita* (Poir.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*A. nitidum* Bory ex Willd., Species plantarum, edn 4, 5,1: 251, 252 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19784.1!, holo.; P00483108, iso.).

*P. thelypteroides* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 317 (1811).
Type: 'Habitat in insula Borboniae', *sine coll. s.n.* (P00483076, holo.).

*A. sulcatum* Kaulf. ex Bory in Voyage aux Indes Orientales. Botanique 2,1: 58, 59 (25 May 1833).
Type: Mauritius, *F.W. Sieber 46* (?holo.; K000351080!, P00483113, P00483114, P00483115, P00477880, iso.).

*A. crinitum* (Poir.) Wall. var. *hispida* Willd. ex Kuhn, Filices africanae: 130 (Oct. 1868), quoad Herb. B-W19704, excl. syn. *Alsophila erubescens* Kunze.
Type: "Habitat in insula Mauritii", *L.-M.A. du Petit-Thouars s.n.* (B-W 19704!, syn.); 'Ins. Borboniae', *K.W.L. Pappe s.n.* (not located).

*C. crinita* (Poir.) Tardieu var. *hispida* (Kuhn) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 337 (May 1958b).

Distribution: Madagascar, Mauritius, Réunion, Tanzania.

**Ctenitis crinita** *(Poir.) Ching* var. **atrata** *Holttum* in Kew Bulletin 38,1: 122 (1983).
Type: 'Mauritius', *R.E. Vaughan* in MAU 12120 (MAU, holo.; K, iso.).

Distribution: Mauritius.

**Ctenitis crinita** *(Poir.) Ching* var. **setacea** *Holttum* in Kew Bulletin 38,1: 122 (1983).
Type: 'Mauritius', *W. Bojer s.n.* (K000351081, holo.).

*Aspidium strigosum* sensu Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 373, 374 (Aug. 1858), p.p., non Willd. (1810: 249).

*Polypodium crinitum* sensu Hook. & Grev., Icones filicum 1,4: pl. 66 (1828a).

*C. crinita* (Poir.) Ching var. *strigosa* sensu Tardieu in Notulae Systematicae (Paris) 15,1: 78, 80 [1954] (1955a), p.p., excl. typo, non *Aspidium strigosum* Mett. (1858: 373, 374).

Distribution: Mauritius.

**Ctenitis cyclochlamys** *(Fée) Holttum* in Kew Bulletin 38,1: 120 (1983).

*Aspidium cyclochlamys* Fée, Cinquième mémoires sur la famille des fougères: 296 (1852).
Type: 'In insulâ Borboniâ', *De Montbrison s.n.* (?, holo.; P, ?iso.).

*A. dasychlamys* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 38, t. 41, fig. 4 (1866a). Type: 'Habitat in insula Borbonica', *sine coll. s.n.* (not located).

*C. nitida* sensu Tardieu in Notulae Systematicae (Paris) 15,1: 81 (1955a), excl. plants from Mauritius.

Distribution: Réunion.

**Ctenitis desvauxii** *Tardieu* in Notulae Systematicae (Paris) 15,1: 82, t. 5, figs 4–6 (1955a).
Type: 'Maurice: Bois de l'anse Courtois de la montagne du Corps de Garde, août 1849', *L.H. Boivin s.n.* (P00483077, holo.).

*Polypodium obtusilobum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 317 (1811), non *Aspidium obtusilobum* Fée (1857b: 105), nec *Ctenitis obtusiloba* (Baker) Ching (1938b: 296).
Type: 'Habitat in Madagascaria', *sine coll. s.n.* (P00483078, holo.).

*Dryopteris obtusiloba* (Desv.) C.Chr., Index filicum: 280 (18 Nov. 1905).

*Aspidium desvauxii* Mett. ex Kuhn, Filices africanae: 131 (Oct. 1868), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Polypodium obtusilobum* Desv. (1811: 317).

Distribution: Madagascar, Mauritius.

**Ctenitis fraterna** *(Mett. ex Kuhn) Tardieu* in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*Aspidium fraternum* Mett. ex Kuhn, Filices africanae: 132, 133 (Oct. 1868).
Type: 'Sierra Leone', *C. Barter s.n.* (not located); 'Sierra de Crystal', *G. Mann 1635* (not located); 'Ins. Fernando Po', *T. Vogel 121* (not located); 'Madagascaria', *L.H. Boivin s.n.* (B20 0086866, fragm., syn.).

*Dryopteris protensa* Afzel. ex Sw. var. *fraterna* (Mett.) C.Chr. in Dansk Botanisk Arkiv 7: 63 (Oct. 1932b).

Distribution: Bioko, Cameroon, Côte d'Ivoire, Guinea, Liberia, Madagascar, Sierra Leone, Madagascar.

**Ctenitis humida** *(Cordem.) Holttum* in Kew Bulletin 38,1: 126 (1983).

*Nephrodium humidum* Cordem., Flore de l'Ile de la Réunion, Cryptogamae vasculares: 74, 75 (1895).
Type: Réunion, *H.J. de Cordemoy s.n.* (P00483079, lecto.), designated by Holttum (1983: 126).

*N. crinitum* Desv. var. *nudatum* Baker, Flora of Mauritius and the Seychelles: 495 (2 Aug. 1877b).
Type: Réunion, *H.J. de Cordemoy s.n.* (K000351087!, holo.).

*C. borbonica* sensu Tardieu in Notulae Systematicae (Paris) 15,1: 84 (1955a), p.p.

Distribution: Réunion.

**Ctenitis lorencei** *Holttum* in Kew Bulletin 38,1: 123 (1983).
Type: 'Rodrigues', *Guého s.n.* in MAU 1396 (MAU, holo.; K000351082!, iso.).

*C. crinita* (Poir.) Ching var. *hispida* sensu Lorence in Journal of the Linnean Society, Botany 72,4: 281 (Jun. 1976a), non (Kuhn) Tardieu (1958b: 337).

*Nephrodium crinitum* sensu Balf.f. in Philosophical Transactions of the Royal Society of London 168: 387 (1879), non (Poir.) Desv. (1827: 257).

Distribution: Rodrigues Isl.

**Ctenitis madagascariensis** *Tardieu* in Naturaliste Malgache 7,1: 91, 93, figs 1–3 (1955e).
Type: Madagascar. 'Centre Sud: massif du Kalambatitra', *H. Humbert 12008* (P00483081, holo.; P00477881, P00483082, P00483083, iso.).

Distribution: Madagascar.

**Ctenitis maritima** *(Cordem.) Tardieu* in Notulae Systematicae (Paris) 15,1: 84, t. 4, figs 7–9 (1955a).
Type: Mauritius, Réunion, *H.J. de Cordemoy 43* (K000351084, K000351085, lecto.), designated by Holttum (1983: 124).

*Nephrodium crinitum* Desv. var. *maritimum* Cordem., Flore de l'Ile de la Réunion, Cryptogamae vasculaires: 74 (1895).
Type: 'De Saint-Benoit à Sainre-Rose', *H.J. de Cordemoy 43* (K000351084!, K00351085!, iso.).

Distribution: Mauritius, Réunion.

**Ctenitis ochrorachis** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 332 (May 1958b), var. **ochrorachis**.

*Nephrodium ochrorachis* Baker in Journal of Botany, British and Foreign 1884: 142 (1884c).
Type: 'north-east Madagascar', *L. Humblot 272* (K000351083!, holo.).

*Dryopteris ochrorachis* (Baker) C.Chr., Index filicum: 280 (18 Nov. 1905).

*D. modesta* C.Chr. in Notes Ptéridologiques 16: 171, 172, pl. 5, fig. a (14 Apr. 1925b).
Type: Madagascar. 'Régions de l'Et et du Centre. Forêt d'Analamazaotra. Altitude de 800 mètres, Décembre', *H. Perrier de la Bâthie 6114* (P00483084, holo.; P00483085, iso.).

Distribution: Madagascar.

**Ctenitis ochrorachis** *(Baker) Tardieu* var. **violacea** *Rakotondr.* in Bulletin du Muséum d'Histoire Naturelle. Paris, sér. 4, 10,4: 373 (1988).
Type: 'Forêt d'Ambohitantely, 1 300–1 500 m, district d'Ankazobe, Madagascar, octobre 1983', *F. Rakotondrainibe 115* (P00064777, holo.).

Distribution: Madagascar.

**Ctenitis pauciflora** *(Kaulf. ex Spreng.) Holttum* in Kew Bulletin 38,1: 123 (1983).

*Aspidium pauciflorum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 101, 102 (Jan. 1827).
Type: 'Ins. Mascaren', *sine coll. s.n.* (?, holo.; K000351086!, iso.).

*Nephrodium crinitum* Desv. var. *pauciflorum* (Kaulf. ex Spreng.) Baker, Flora of Mauritius and the Seychelles: 495 (2 Aug. 1877b), excl. syn. *Aspidium sulcatum* Kaulf. ex Bory and *A. nitidum* Bory ex Willd.

*Dryopteris crinita* (Poir.) Kuntze var. *pauciflorum* (Kaulf. ex Spreng.) Bonap. in Notes Ptéridologiques 4: 17 (19 May 1917a).

Distribution: Mauritius.

**Ctenitis truncicola** *(C.Chr.) Ching* in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

*Dryopteris truncicola* C.Chr. in Notes Ptéridologiques 16: 181, 182, pl. 5, fig. b (14 Apr. 1925b).
Type: Madagascar. 'Région floristique de Centre. Massif de Manongarivo. Vers 1 400 mètres d'altitude. Surtout sur les fougères arborescentes. Mai 1909', *H. Perrier de la Bâthie 7446* (P00483086, holo.; P00483087, iso.).

Distribution: Madagascar, Réunion.

## CYRTOMIUM

**Cyrtomium** *C.Presl*, Tentamen pteridographiae: 86, pl. 2, fig. 26 (Oct. 1836). Lectotype: *Cyrtomium falcatum* (L.f.) C.Presl; *Polypodium falcatum* L.f., designated by Smith (1875: 204).

**Cyrtomium falcatum** *(L.f.) C.Presl*, Tentamen pteridographiae: 86 (Oct. 1836).

*Polypodium falcatum* L.f., Supplementum plantarum: 446 (Apr. 1782).
Type: Japan, *C.P. Thunberg s.n.* (UPS, holo.).

*Aspidium falcatum* (L.f.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 31 (1801).

*Dryopteris falcata* (L.f.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Polystichum falcatum* (L.f.) Diels in Die natürlichen Pflanzenfamilien 1,4: 194 (Aug. 1899b).

*Phanerophlebia falcata* (L.f.) Copel., Genera filicum: 111 (1947).

Distribution: South Africa (naturalised).

**Cyrtomium micropterum** *(Kunze) Ching*, Icones filicum sinicarum 3: pl. 127 (May 1935), as '*micropteris*'.

*Aspidium anomophyllum* Zenker f. *micropterum* Kunze in Linnaea 24: 278 (1851a), as '*microptera*'.
Type: C. Presl, Tentamen pteridographiae: pl. 2, fig. 26 (1936), icon.

*C. caryotideum* (Wall. ex Hook. & Grev.) C.Presl var. *micropterum* (Kunze) C.Chr. in American Fern Journal 20,2: 52 (7 Aug. 1930), as '*micropteris*'.

*C. caryotideum* (Wall. ex Hook. & Grev.) C.Presl var. *micropterum* (Kunze) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 66 (Oct. 1934), as '*micropteron*'.

*Phanerophlebia caryotidea* (Wall. ex Hook. & Grev.) Copel. var. *micropteris* (Kunze) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 326 (May 1958b).

*Polystichum falcatum* Diels var. *caryotideum* (Wall. ex C.Presl) Bonap. in Notes Ptéridologiques 16: 38 (14 Apr. 1925a).

*A. anomophyllum* sensu Kuhn, Filices africanae: 125 (Oct. 1868), non Zenker (1835: pl. 1).

*C. falcatum* sensu Sim, The ferns of South Africa: 171, pl. XCIV (1892).

*A. caryotideum* sensu Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 86 (Jun. 1895).

Distribution: Ethiopia, Kenya, Madagascar, South Africa, Tanzania, Uganda.

See Plate 5E.

## DIDYMOCHLAENA

**Didymochlaena** *Desv.* in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 303, t. 7, figs 6, 6a (1811). Type: *Didymochlaena sinuosa* Desv. (now *Didymochlaena truncatula* (Sw.) J.Sm.; *Aspidium truncatulum* Sw.).

**Didymochlaena truncatula** *(Sw.) J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 4: 196 (1842a).

*Aspidium truncatulum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 36 (1801).
Type: Java, *sine coll. s.n.* (S, holo.).

*Adiantum lunulatum* Houtt., Natuurlijke historie 2,14: 209, pl. 100, fig. 1 (1783), hom. illeg., non Burm.f. (1768a: 235), nec Keyserl. (1875: 25).
Type: as for *Didymochlaena truncatula*.

*D. lunulata* (Houtt.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 282 (Jul. 1827).

*Nephrolepis lunulata* (Houtt.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 40 (1873).

*D. dimidiata* Kunze in Linnaea 18: 122 (1844b).
Type: 'In montium faucibus sylvaticis umbrosissimis infra catarractam magnam inter Omfondi et Tagela fluvios Portus Natalensis, Febr.–Apr. 1842', *W. Gueinzius s.n.* (LZ†, holo.; B20 0046214, B20 0046215, B20 0046216, B20 0046217, B20 0046218, B20 0046220, B20 0046221, K000351199!, L, P00483170, P00483171, W!, iso.).

*D. lunulata* Desv. var. *dimidiata* (Kunze) Kuhn, Filices africanae: 157 (Oct. 1868).

*Lindsaea spinulosa* Brause in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 6, 7 (Dec. 1910).
Type: 'Beni: Urwald bei Muëra, Bachläfe, Jan. 1908', *G.W.J. Mildbraed 2233* (?B, holo.).

*D. truncatula* (Sw.) J.Sm. var. *attenuata* Bonap. in Notes Ptéridologiques 4: 66 (19 May 1917b).
Type: Madagascar. 'Règion floristique du Centre et de l'Est. Forêt d'Analamazoatra. Dècembre', *H. Perrier de la Bâthie 6066* (P00483172, holo.; P00483173, P00483174, iso.).

*D. truncatula* (Sw.) J.Sm. var. *bipinnatipartita* Bonap. in Notes Ptéridologiques 4: 66, 67 (19 May 1917b).
Type: Madagascar. 'Règion floristique du Centre, vers 1 700 mètres d'altitude. Bois humides. Schistes liasiques. Mai 1909', *H. Perrier de la Bâthie 7717* (P00483164, holo.; P00483165, P00483166, iso.).

*D. truncatula* (Sw.) J.Sm. var. *microphylla* Bonap. in Notes Ptéridologiques 4: 67 (19 May 1917b).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo, vers 1 700 mètres d'altitude. Bois humides. Basaltes. Schistes liasiques. Avril 1909', *H. Perrier de la Bâthie 7718* (P00483167, holo.; P00483168, iso.).

*D. microphylla* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 30 (Feb. 1932a).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

## DRYOPTERIS

**Dryopteris** *Adans.*, Familles des plantes 2: 20, 551 (Jul.–Aug. 1763), nom. cons. Type: *Dryopteris filix-mas* (L.) Schott; *Polypodium filix-mas* L.

*Nephrodium* Michx., Flora boreali-americana 2: 266 (19 Mar. 1803). Lectotype: *Nephrodium marginale* (L.) Michx.; *Polypodium marginale* L. (now *Dryopteris marginalis* (L.) A.Gray), designated by Pichi Sermolli (1977c: 87–90).

*Lophodium* Newman in The Phytologist 4: 371, app. xvi (1851). Type: *Lophodium multiflorum* (Roth) Newman (now *Dryopteris dilatata* (Hoffm.) A.Gray), designated by Newman (1851: app. xvii).

*Dryopteris* Adans. subgen. *Dryopteris* sect. *Nephrocystis* H.Itô in The Botanical Magazine (Tokyo) 49: 437 (1935). Type: *Dryopteris hayatae* Tagawa (now *Dryopteris subexaltata* (H.Christ) C.Chr.; *Aspidium subexaltatum* H.Christ).

*Dryopteris* Adans. subgen. *Nephrocystis* (H.Itô) Fraser-Jenk. in Bulletin of the British Museum (Natural History), Botany 14,3: 197 (30 Jan. 1986).

*Dryopteris* Adans. sect. *Lophodium* (Newman) C.Chr. ex H.Itô in Nova flora japonica 4: 65 (1938).

*Dryopteris* Adans. subgen. *Dryopteris* sect. *Fibrilosae* Ching in Bulletin of the Fan Memorial Institute of Biology 8,6: 366 (1938c), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 31.4]. Type: *Dryopteris fibrillosa* (C.B.Clarke) Hand.-Mazz., non (Baker) C.Chr. (1905: 264); *Nephrodium filix-mas* (L.) Rich. var. *fibrillosa* C.B.Clarke (now *Dryopteris pulcherrima* Ching).

*Dryopteris* Adans. sect. *Cinnamomeae* Fraser-Jenk. in Bulletin of the British Museum (Natural History), Botany 14,3: 193 (30 Jan. 1986). Type: *Dryopteris cinnamomea* (Cav.) C.Chr.; *Tectaria cinnamomea* Cav.

*Dryopteris* Adans. subgen. *Dryopteris* sect. *Marginatae* Fraser-Jenk. in Bulletin of the British Museum (Natural History), Botany 14,3: 194 (30 Jan. 1986). Type: *Dryopteris marginata* (Wall. ex C.B.Clarke) H.Christ; *Aspidium marginatum* Wall. ex C.B.Clarke.

*Dryopteris* Adans. subgen. *Nephrocystis* (H.Itô) Fraser-Jenk. sect. *Purpurascentes* Fraser-Jenk. in Bulletin of the British Museum (Natural History), Botany 14,3: 197 (30 Jan. 1986). Type: *Dryopteris purpurascens* (Blume) H.Christ; *Aspidium purpurascens* Blume.

**Dryopteris affinis** *(Lowe) Fraser-Jenk*. in Fern Gazette 12,1: 56 (31 Aug. 1979), subsp. **affinis**.

*Nephrodium affine* Lowe in Transactions of the Cambridge Philosopical Society 6: 525 (1838).
Provenance: 'Hab. rarior in Maderae umbrosis, ad alt. 1500 ad 3500 pedum'. Type: Madeira: "40. Nephrodium affine MSS. Ribeiro Frio, by the Levada to the right, Nov. 1, 1828", *R.T. Lowe s.n.* (K, lecto.), designated by Fraser-Jenkins (1980: 108).

Distribution: Morocco.

**Dryopteris amblyodonta** *J.P.Roux* in Kew Bulletin 59,2: 207, figs 1A, B, 2A–H (2004e).
Type: 'Sierra Leone, Sugar Loaf mountain, on ground amongst rocks, 730 m, 15 Oct. 1951', *T.S. Jones 339* (BM!, holo.).

Distribution: Sierra Leone.

**Dryopteris antarctica** *(Baker) C.Chr*., Index filicum. Supplementum 1906–1912: 29 (20 Dec. 1913a).

*Nephrodium antarcticum* Baker in Journal of the Linnean Society, Botany 14: 479, 480 (1875b).
Type: 'Island of 'Amsterdam'. (St Paul), *G. Staunton s.n*. (BM!, holo.).

*D. callolepis* C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 177 (1924).
Type: 'Mt. Aberdare: regio bambusina superior, ± 2 800 m, 31 März 1922', *R.E. Fries, & T.C.E. Fries 2554* (BM!, holo.).

*Aspidium spinulosum* sensu Pappe & Rawson, Synopsis filicum Africae australis: 38 (Jan.–Jul. 1858), non *Aspidium spinulosum* Sw. (1801: 38).

*A. spinulosum* Sw. var. *dilatatum* sensu Kuhn, Filices africanae: 142 (Oct. 1868), non *A. dilatatum* (Hoffm.) Sm. (1804: 1125).

*D. spinulosa* (O.F.Müll. ex Roth) Kuntze subsp. *dilatata* sensu Bonap. in Notes Ptéridologiques 15: 16 (25 Feb. 1924), non *D. dilatata* (Hoffm.) A.Gray (1848: 631).

*N. spinulosum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 56 (1929).

*D. austriaca* (Jacq.) Woyn. subsp. *dilatatum* sensu Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 140 (1935), non *Dryopteris dilatata* (Hoffm.) A.Gray (1848: 631).

*D. dilatata* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 316 (May 1958b).

Chromosome number: 2n = 164 ± 4 (Vida in Widén *et al.* 1973: 2129).

Distribution: DRC, Kenya, Madagascar Malawi, Rwanda, South Africa, St Paul, Tanzania, Uganda, Zimbabwe.

**Dryopteris aquilinoides** *(Desv.) C.Chr*., Index filicum: 252 (2 Oct. 1905).

*Nephrodium aquilinoides* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 261, 262 (Jul. 1827).
Type: "Feuilles de ..... à Lepieds dans les forêts, Ile Bourbon", *J.M.C. Richard 963* (P00349567!, holo.; B20 0052453, B20 0052454 iso.).

*Aspidium aquilinoides* (Desv.) Mett. ex Kuhn, Filices africanae: 126 (Oct. 1868).

*N. aquilinoides* Desv. var. *angustatum* Desv., Mémoires de la Société Linnéenne de Paris 6,2: 262 (Jul. 1827).
Type: 'Habitat in insula Borboniae', *sine coll. s.n*. (P00349566!, holo.).

*A. grande* Fée, Cinquième mémoires sur la famille des fougères: 292, 295 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n*. (not located).

Distribution: Mauritius, Réunion.

**Dryopteris ascensionis** *(Hook.) Kuntze*, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Nephrodium ascensionis* Hook., Species filicum 4,14: 124, pl. 257 (Aug. 1862c).
Type: 'Ascension Island, top of Green Mountain, 1200–1800 feet', *J.D. Hooker s.n.* (K!, holo.; K!, iso.).

*Aspidium ascensionis* (Hook.) Kuhn, Filices africanae: 126 (Oct. 1868).

Distribution: Ascension Isl.

**Dryopteris athamantica** *(Kunze) Kuntze*, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Aspidium athamanticum* Kunze in Linnaea 18: 123 (1844b).
Type: 'Ad portum Natalensem in collibus graminosis et locis paludosis, Febr. – Apr. et Junio 1842', *W. Gueinzius s.n*. (LZ, holo.†; K!, lecto.), designated by Roux (2001a: 127).

*Lastrea athamantica* (Kunze) T.Moore, Journal of Botany (W.J. Hooker, ed.) 5: 311 (1853b).

*Nephrodium athamanticum* (Kunze) Hook., Species filicum 4,14: 125 (Aug. 1862c).

*L. plantii* T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 226, 227 (1853a).
Type: 'Mooi River; in deserted holes of the jackal', *R.W. Plant 31* (BM!, holo.).

*N. eurylepium* Peter in Feddes Repertorium, Beiheft 40,1: 57, Anhang: 3 (1929).
Type: Tanzania, Buha (Uha) District, 02/1926, *A. Peter 37743* (K!, syn.); Tanzania, Kigoma District, Ujiji, Febr. 1926, *A. Peter 37290* (K!, syn.).

Chromosome number: n = 41 (Manton 1959: 80).

Distribution: Angola, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Liberia, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Dryopteris aurantiaca** *J.P.Roux* in Systematics and Biodiversity 2,2: 164, figs 1A, 2A, Aa, B, C, D, Dd [2004] (26 Jan. 2005).

Type: 'Annobón, Pico del Centro, mist forest floor, 1 August 1959', *T.C. Wrigley & F.A. Melville 215* (K!, holo.).

Distribution: Annobón.

**Dryopteris bernieri** *Tardieu* in Notulae Systematicae (Paris) 15,2: 161 (Apr. 1956a).
Type: 'Réunion', *Lepervanche-Mezières 22* (P00349606!, holo.).

Distribution: Réunion.

**Dryopteris bojeri** *(Baker) Kuntze* in Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Nephrodium bojeri* Baker in Synopsis filicum 7: 280 (4 Oct. 1867e).
Type: Mauritius, *W. Bojer s.n*. (K!, lectotype, designated here, M0065885!, isolecto.).

*Aspidium amplum* Bory in Voyage aux Indes Orientales. Botanique 2,1: 62, 63 (24 May 1833).
Type: 'à l'île Maurice', *C.P. Bélanger s.n*. (P00349575!, holo.).

Distribution: Mauritius.

**Dryopteris caperata** *J.P.Roux* in Systematics and Biodiversity 2,2: 164, figs 1B, 2E, F [2004] (26 Jan. 2005).
Type: 'São Tomé, entre Ribeira Moça e Água Telha, na terra, 4 November 1957', *A. Rozeira 2105* (PO!, holo.; PO!, iso.).

Distribution: São Tomé.

**Dryopteris cicatricata** *J.P.Roux* in Systematics and Biodiversity 2,2: 167, figs 1C, 2G, H, Hh [2004] (26 Jan. 2005).
Type: 'São Tomé, Casa do Pico, 10 Dec. 1958', *A. Rozeira 5136* (PO!, holo, 3 sheets).

Distribution: São Tomé.

**Dryopteris cognata** *(C.Presl) Kuntze*, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Lastrea cognata* C.Presl, Epimeliae botanicae: 40 (1851).
Type: 'Habitat in insula S. Helena', *H. Cuming*, pl. phil. n. 428 (PRC450729, holo.; BM!, 2 sheets, K!, P!, iso.).

*Aspidium cognatum* (C.Presl) Fée, Cinquième mémoires sur la famille des fougères: 292 (1952).

*Nephrodium cognatum* (C.Presl) Hook., Species filicum 4,14: 123, 124, pl. 256 (Aug. 1862c).

*D. fuliginosa* C.Chr. in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 6,1: 120, 121, fig. 29 (1920a).
Type: "Venezuela, Caracas", (erroneous) *F. Bredemeyer s.n*. (BM!, holo.).

Distribution: St Helena.

**Dryopteris comorensis** *(Tardieu) Fraser-Jenk.* in Thaiszia 4,1: 34 (1994).

*D. inaequalis* (Schltdl.) Kuntze var. *comorensis* Tardieu in Notulae Systematicae (Paris) 15,2: 162 (Apr. 1956a).
Type: 'Comores, environs de Nioubadjou', *L. Humblot 254* (BM000801045!, K!, P00220414!, P00220415!, iso.).

Distribution: Grande Comore, Madagascar.

**Dryopteris dracomontana** *Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 147 (2 Apr. 1982), nom. nov. for *Aspidium inaequale* Schltdl. var. *montanum* Kunze.
Type: As for *Aspidium inaequale* var. *montanum*. (McNeill *et al.* (2006) Art. 7.3).

*Aspidium inaequale* Schltdl. var. *montanum* Kunze in Linnaea 10: 549 (1836).
Type: 'Wittebergen, in rupestribus, 2 500 m', *J.F. Drège s.n*. (BM, lecto.), desigated by Roux (1986: 376); 'Sneeuwbergen, locis rupestribus umbrosis, 200 m', *J.F. Drège s.n*. (BM!, isosyn.).

*D. pentheri* Krasser var. *montana* (Kunze) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 14 (1956a).

*D. esterhuyseniae* Schelpe & N.C.Anthony in Contributions from the Bolus Herbarium 10: 148, 149 (2 Apr. 1982).
Type: "Natal, Drakensberg, MnWeni area, steep rocky bank above kloof below Rockies, S-aspect, 2 300–2 700 m, 07/1953", *E. Esterhuysen 21663* (BOL!, holo.; BM, NBG0081280-0!, iso.).

Distribution: Lesotho, South Africa.

**Dryopteris fadenii** *Pic.Serm.* in Webbia 37,2: 333, 336, figs 3, 4 (1984).
Type: 'Kenya, K3, Nyandarua District, Sasumua Dam, just below outlet, steep slope, common, alt. 2 460 m; *Juniperus procera–Arundinaria alpina* mixed bamboo forest with some other trees and shrubs being *Rhamnus prinoides*, *Halleria lucida*, *Myrsine africana*, *Ilex mitis*, *Rubus* spp., 24.I.1971', *R.B. Faden, A. Evans & V.L. Cameron 71/68* (FI-PS 26171 & 26172, holo.; BOL!, K!, Herb. Reichstein, Basel, iso.).

Distribution: Ethiopia, Kenya, Tanzania, Uganda.

**Dryopteris filipaleata** *J.P.Roux* in Bothalia 34: 28, figs 1, 2 (2004a).
Type: 'Tanzania, Eastern Province, Morogoro District (T6), Uluguru mountains, Mwere valley, wet evergreen forest along stream with abundant *Cyathea manniana* and epiphytes, 1 400–1 450 m, 26 Sept. 1970', *R.B. Faden, T.Pócs, B.J. Harris & P. & K. Csontos 70/596* (BOL!, holo., 2 sheets; K!, iso., 2 sheets).

Distribution: Kenya, Tanzania.

**Dryopteris filix-mas** *(L.) Schott*, Genera filicum 2, pl. 9 (1834b).

*Polypodium filix-mas* L., Species plantarum 2: 1090 (1 May 1753).
Provenance: 'Habitat in Europae sylvis.' Lectotype: Herb. Clifford: 475, Polypodium 10 (BM000647599), designated by Jonsell & Jarvis (1994: 149).

*Polystichum filix-mas* (L.) Roth, Tentamen florae germanicae 3,1,1: 82 (Jun.–Sep. 1799).

*Tectaria filix-mas* (L.) Cav., Descripción de las plantas: 251 (1801a).

*Nephrodium filix-mas* (L.) Rich. in Catalogue des plantes du jardin médicinale de Paris: 129 (1801).

*Polypodium umbilicatum* Poir. in Encyclopedie méthodique, Botanique 5: 528 (9 Jan. 1804).
Type: 'l'Ile-de-France, 1774', in error, a European species, *P. Commerson 131* (P-LA, holo.).

*Aspidium umbilicatum* (Poir.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 320, 321 (1811).

*N. marginale* Michx. var. *umbilicatum* (Poir.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 260 (Jul. 1827).

*A. filix-mas* (L.) Sw. var. *umbilicatum* (Poir.) Kuhn, Filices africanae: 132 (Oct. 1868).

*A. filix-mas* (L.) Sw. var. *crenata* Milde in Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum 26,2: 508 (1858).

*D. filix-mas* (L.) Schott var. *crenata* (Milde) Hayek, Flora von Steiermark 1: 34 (1 Jun. 1908).

Distribution: Algeria, Morocco.

**Dryopteris glandulosopaleata** *J.P.Roux* in Kew Bulletin 59,2: 211, figs 3A, B, 4A–G (2004e).
Type: 'Cameroon, Mt Cameroon, Tongo Camp, (6700 ft) 2 036 m', *T.D. Maitland 1046* (K!, holo.).

Distribution: Cameroon, Nigeria.

**Dryopteris gorgonea** *J.P.Roux* in Bothalia 34: 33, fig. 5 (2004d).
Type: 'Cape Verde Islands, Fogo, Espia, Mosteiros, 1-08-1934', *A. Chevalier 45113* (P!, holo.; COI!, K!, iso.).

Distribution: Cape Verde Isl. (Fogo).

**Dryopteris inaequalis** *(Schltdl.) Kuntze*, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*Aspidium inaequale* Schltdl., Adumbrationes plantarum 2: 23, 24, pl. 12 (1825b).
Type: 'In Promontorio bonae spei', *J.L.L. Mund & L. Maire s.n*. (B20 0044699!, lecto.), designated by Pichi Sermolli (1984: 329); "Prom. Bon. Sp.", *C.H. Bergius s.n*. (B20 0044698, syn.).

*Nephrodium inaequale* (Schltdl.) Hook., Species filicum 4,14: 125 (Aug. 1862c), non Schrad. (1824: 869).

*Lastrea inaequalis* (Schltdl.) C.Presl, Tentamen pteridographiae: 77 (Oct. 1836).

*Polystichum inaequale* (Schltdl.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 44 (1873).

*N. filix-mas* (L.) Rich. var. *elongatum* sensu Sim, The ferns of South Africa: 180, 181, pl. C (1892).

*D. elongata* sensu Sim, The ferns of South Africa, edn 2: 104, pl. 17 (1915), p.p.

Distribution: South Africa, Swaziland.

**Dryopteris katangaensis** *J.P.Roux* in Botanical Journal of the Linnean Society 142,2: 237, figs 1–4 (2 Jul. 2003).
Type: 'Zambia, Northwestern Province. Mwinilunga District: Lumwana East River, 19 km from turn-off to Kabompo Gorge, Solwezi-Mwinilunga road, in light or deep shade along stream, 11.x.1999', *J.P. Roux 2989* (NBG0197292-1!, NBG0197292-2!, NBG0197292-3!, NBG0197292-4!, NBG0197292-5!, holo.).

Distribution: Zambia.

**Dryopteris kilemensis** *(Kuhn) Kuntze*, Revisio generum plantarum 2: 813 (5 Nov. 1891), as '*kilmensis*'.

*Aspidium kilemense* Kuhn, Filices africanae: 24 (Oct. 1868), as '*kilmense*'.
Type: 'Africa orientalis tropica. In Kilma ad radices montis Kilimandjaro regionis Dschagga 3–4000 ped. 1864', *O. Kersten 46* (B20 0051628, holo.; B20 0058467, iso.).

*Nephrodium kilemense* (Kuhn) Baker in Synopsis filicum, edn 2: 498 (Oct. 1874a), as '*kilmense*'.

*N. lastii* Baker in Annals of Botany 5: 324 (1891a).
Type: Mozambique, *J.T. Last s.n*. (K!, holo.).

*A. lastii* (Baker) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).

*D. lastii* (Baker) C.Chr., Index filicum: 274 (18 Nov. 1905).

*D. platylepis* Rosenst. in Feddes Repertorium 4: 4, 5 (1907).
Type: 'Africa orient. germ. (Tanzania) Kilimanjaro, 4 000 m, in humide sylvae primaevae, 1906', *P. Daubenberger 37* (M!, holo.; M!, iso.).

*D. remotipinnula* Bonap. in Notes Ptéridologiques 16: 178, 179 (14 Apr. 1925b).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 1 700 mètres d'altitude. Bois humide. Rocailles. Mai 1909', *H. Perrier de la Bâthie 7619* (P003495031!, holo.; P00483237!, P00483238!, iso.).

*D. cordipinnula* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 27 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*D. cordipinnula* C.Chr. in Dansk Botanisk Arkiv 7: 55, 56, t. 11, figs 10–12 (Oct. 1932b).
Type: Madagascar. 'Mandraka, Aug. 1906', *Ch. d'Alleizette 111* (BM!, syn.); 'Imerina: Betsitra, près Andsoforobé, Oct. 1906', *Ch. d'Alleizette 170* (BM, syn.).

Distribution: Burundi, Cameroon, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Rwanda, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Dryopteris lewalleana** *Pic.Serm.* in Bulletin du Jardin Botanique National de Belgique 55,1/2: 158–162, fig. 3 (1985a).
Type: 'Burundi, Prov. Bujumbura, route de Mwisare, 1 050 m, talus humide, 8.IV.1971', *J. Lewalle 5482* (FI-PS 26049, holo.; BR!, FI-PS, iso.).

*Lastrea pentagona* T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 227 (1853a).
Type: 'Natal, Umvoti, in ravines and wet places', 1853, *A.W. Plant 325* (K!, holo., 2 sheets).

*Aspidium pentagonum* (T.Moore) Kuhn, Filices africanae: 139 (Oct. 1868).

*D. inaequalis* (Schltdl.) Kuntze var. *atropaleacea* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 213 (1967).
Type: 'Tanganyika, Sumbawanga, Mbisi, Ufipa, Mbisi forest, 7 500 ft, 18.i.1958', *L.D.E.F. Vesey-Fitzgerald 1390* (BOL, holo.).

Distribution: Burundi, DRC, Ethiopia, Kenya, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Dryopteris mangindranensis** *Tardieu* in Notulae Systematicae (Paris) 15,2: 161, 162 (Apr. 1956a).
Type: 'Madagascar, montagnes du Nord de Mangindrano, jusqu'aux sommets d'Ambohimiravavy, 1 900–2 500 m', *H. Humbert 25054* (P00483232!, iso.; K000351050, iso.).

Distribution: Madagascar.

**Dryopteris manniana** *(Hook.) C.Chr*., Index filicum: 276 (18 Nov. 1905).

*Polypodium mannianum* Hook., Species filicum 4,15/16: 253 (1863).
Type: 'Fernando Po, on the peak, 2000 feet, 1860', *G. Mann s.n*. (K!, holo.).

*Phegopteris manniana* (Hook.) Kuhn, Filices africanae: 123 (Oct. 1868).

*D. raynalii* Tardieu in Adansonia 5,4: 500, pl. 2, figs 1–4 (1965).
Type: 'Cameroun: Sadolkoulay, 36 km est de Ngaondéré sur blocs basaltiques, grotte derrière

la chute du Tello, partie supérieure sombre et humide. Environ 1 200 m', *J. Raynal & A. Raynal 13279* (P00279997, holo.).

Chromosome number: 2n = ± 164 (Vida in Widén *et al*. 1973: 2130).

Distribution: Bioko, Burundi, Cameroon, Coté d'Ivoire, Equatorial Guinea, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, Tanzania, Uganda, Zimbabwe.

**Dryopteris napoleonis** (*Bory) Kuntze*, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*Nephrodium napoleonis* Bory in Voyage aux Indes Orientales. Botanique 2,1: 61, 62, pl. 6 (24 May 1833).
Type: 'Le bord du ruisseau voisin du tombeau de Saint-Héléne', *C.P. Bélanger 424* (L?, iso.; BOL, photo.).

*Aspidium napoleonis* (Bory) Fée, Cinquième mémoires sur la famille des fougères: 292 (1852).

*Lastrea napoleonis* (Bory) C.Presl, Epimeliae botanicae: 40 (1851).

*A. riparium* sensu Roxb. in Tracts relative to the island of St Helena: 298 (Jan. 1816), non *Aspidium riparium* Bory ex Willd. (1810: 250).

Distribution: St Helena.

**Dryopteris occidentalis** *J.P.Roux* in Kew Bulletin 59,2: 214, figs 5A, B, 6A–G (2004e).
Type: 'Guinea, Fouta-Djallon, Dalaba, Sept. 1954', *R.A.A. Schnell 6825* (K!, holo.).

Distribution: Guinea.

**Dryopteris oligodonta** *(Desv.) Pic.Serm.* in Webbia 8,1: 150 (1951).

*Aspidium oligodonton* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 322 (1811).
Type: "Hab. in Insula Teneriffae (Canarii)", *sine coll. s.n*. (P00483105!, lecto.; P!, FI, isolecto.), designated by Pichi Sermolli (1951: 148).

*Nephrodium oligodontum* (Desv.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 261 (Jul. 1827).

*A. canariense* A.Braun in Flora 1841: 708 (1841).

*Lastrea canariensis* (A.Braun) T.Moore, Index filicum 2,8: 87 (1858a).

*N. canariense* (A.Braun) Kiaersk., Catalogus filicum herbariorum horti botanici Hauniensis: 62 (1874).

*A. aquilinoides* Bolle in Zeitschrift für Gesellschaft für Erdkunde zu Berlin 1: 221 (1866), non (Desv.) Mett. ex Kuhn (1868: 126).
Type: "Habitat in Teneriffa", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19805!, holo.).

*D. elongata* (Sw.) A.Chev. var. *simplex* A.Chev. in Revue de botanique appliquée et d'agriculture tropicale 15,170/171: 328 (seors 1060) (1935).
Type: Archipel des Iles du Cap Vert, Sto. Antão, Covão, Sept. 1934, 'S. Antão: Covão, 900 m. alt.', *A. Chevalier 45476* (P!, lecto.), designated by Lobin *et al.* (1998: 53).

*A. elongatum* sensu Webb in Niger Flora: 194 (Oct. 1849).

*D. elongata* sensu A.Chev. in Revue de Botanique Appliquée et d'Agriculture Tropicale 15,170/171: 328 (1935).

*D. filix-mas* sensu Tardieu in Mémoires de la Société de Biogéographie 8: 335 (1946).

Distribution: Cape Verde Isl. (Sto. Antão, Fogo).

**Dryopteris pallida** *(Bory) C.Chr. ex Maire & Petitm*. in Bulletin de la Société des Sciences de Nancy, sér. 3, 9: 480 (1908).

*Nephrodium pallidum* Bory, Expédition scientifique de Morée, Botanique 3,2: 287 (Sep. 1832).
Type: S. Greece. '*Nephrodium pallidum* Bory. Morée nr. 1335. Ravin des racines du Manglava.' *J.B.G.M. Bory de St.-Vincent s.n*. (P, lecto.), designated by Fraser-Jenkins (1982: 238); (P, para.).

*Aspidium pallidum* (Bory) Link, Filicum species: 107, 108 (Oct. 1841), non Blume (1828: 168), nec Fournier (1872: 96).

*Polystichum pallidum* (Bory) Tod., Synopsis plantarum acotyledonearum vascularium sponte provenientium insulisque adjacentibus: 35 (Jan.–Sep. 1866).

*A. rigidum* (Hoffm.) Sw. subsp. *pallidum* (Bory) H.Christ in Flore des Alpes maritimes 3,1: 24 (Apr. 1899b).

*D. villarii* (Bellardi) Woyn. ex Schinz & Thell. subsp. *pallida* (Bory) Heywood in Feddes Repertorium 69: 44 (1964).

*Polypodium rigidum* Hoffm., Deutshland Flora 2: 6 (1795).
Type: unknown to current author.

*A. rigidum* (Hoffm.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 37 (1801).

*A. rigidum* (Hoffm.) Sw. var. *australe* Ten. in Atti del Real Istituto d'Incoggimento alle Scienze Naturali di Napoli 5: 144, 145, t. 2, fig. 4B, C (1832).
Type: unknown to current author.

*D. villarii* (Bellardi) Woyn. ex Schinz & Thell. var. *australis* (Ten.) Maire in Encyclopédie Biologique 33: 32 (1952).

Distribution: Tunisia.

**Dryopteris pentheri** *(Krasser) C.Chr*., Index filicum: 284 (18 Nov. 1905).

*Nephrodium pentheri* Krasser in Annalen des Kaiserlich-Königlichen Naturhistorischen Hofmuseums, Wien 15: 5, 6 (1900).
Type: 'Orange Free State: Van Reenens Pass, leg. Krook 4.III.1895', *P. Krook s.n.*, sub Pl. Penther 36 (W8042!, lecto.), designated by Pichi Sermolli (1984: 329); (BM!, W!, isolecto.).

*D. filix-mas* Schott subsp. *elongatum* sensu Bonap. in Notes Ptéridologiques 14: 208 (23 Nov. 1923a), non *Dryopteris elongata* (Wall. ex Hook.) Kuntze (1891: 811), nec *D. elongata* (Sw.) A.Chev. (1935: 328).

*D. filix-mas* (L.) Schott var. *elongata* sensu Brause in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 3 (Dec. 1910), non *Dryopteris elongata* (Sw.) Sim (1915: 104, 105).

*D. inaequalis* sensu Schelpe in Flora zambesiaca, Pteridophyta: 221, 222 (23 Oct. 1970).

Distribution: Bioko, Burundi, Cameroon, DRC, Ethiopia, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

See Plate 5F.

**Dryopteris rodolfii** *J.P.Roux* in Webbia 59,1: 143, figs 1, 3–5 (2004c).
Type: 'Ethiopia, Bale mountains, above Goba (6°54'N, 39°56'E), upper montane *Phillipia-Hagenia* forest, upper limit on fire sheltered 10° NW-facing upper slope, 3 500 m, 4 March 1990', *G. & S. Miehe 3239* (K!, holo.).

Distribution: Kenya, Ethiopia.

**Dryopteris ruwenzoriensis** *C.Chr. ex Fraser-Jenk*. in Bulletin of the British Museum (Natural History), Botany 14,3: 204, fig. 4 (30 Jan. 1986).
Type: 'Massif du Ruwenzori, versant Ouest (Congo Belge, Ituri), altitude vers 2 000 m, 22 July 1930', Mission *H. Humbert*-Plantes

de l'Afrique Equatoriale—1929, *8825* (BM!, holo.).

Distribution: DRC, Uganda.

**Dryopteris schimperiana** *(Hochst. ex A.Braun) C.Chr*., Index filicum: 91, 291 (1 Jul. 1905).

*Aspidium schimperianum* Hochst. ex A.Braun in Flora 1841: 708, 709 (7 Dec. 1841).
Type: 'Ethiopia, locis umbrosis ad rupes superioris et mediae partis septentrionalis montis Scholoda, 26 Oct. 1837', *A.F.W. Schimper s.n.* (B20 0065670!, B20 0065671!, B20 0065672!, B20 0065673!, holo.; BM!, H, K!, 2 sheets, M, 2 sheets, WAG03526, iso.).

*Polystichum schimperianum* (Hochst. ex A.Braun) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 44 (1873).

Chromosome number: 2n = ± 82 (Vida in Widén *et al.* 1973: 2130).

Distribution: Burundi, DRC, Eritrea, Ethiopia, Kenya, Malawi, Rwanda, Sudan, Tanzania, Uganda.

**Dryopteris subcrenulata** *(Baker) C.Chr*., Index filicum: 295 (18 Nov. 1905).

*Nephrodium subcrenulatum* Baker in Journal of the Linnean Society, Botany 16: 202 (1877a).
Type: 'Madagascar, Antanarivo', *H. Gilpin s.n*. (K000351090!, K000351091!, holo.).

*Aspidium subcrenulatum* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 65 (Aug–Sep. 1879).

Distribution: Madagascar.

**Dryopteris submontana** *(Fraser-Jenk. & Jermy) Fraser-Jenk*. in Candollea 32,2: 311 (1977).

*D. villarii* (Bellardi) Woyn. ex Schinz & Thell. subsp. *submontana* Fraser-Jenk. & Jermy in Fern Gazette 11,5: 339 (1977).
Type: Englang. 'Mid West York, v.c. 64, Ingelborough, on limestone outcrop', *I. Manton s.n.*, ex Leeds University Botanic Garden (BM, holo.).

Distribution: Algeria.

**Dryopteris tricellularis** *J.P.Roux* in Kew Bulletin 57,3: 735, figs 1, 2 (2002).
Type: 'Uganda, Mt Elgon, bamboo zone, 9000' (2 736 m), Jan. 1918', *R.A. Dümmer 3557* (K, holo.!; BOL!, NBG0105534-0!, iso.).

Distribution: Ethiopia, Kenya, Tanzania, Uganda.

**Dryopteris wallichiana** *(Spreng.) Hyl*. in Botaniska Notiser 3: 352 (1953), subsp. **wallichiana**.

*Aspidium wallichianum* Spreng., Systema vegetabilium, edn 16, 4,1: 104 (Jan. 1827), non C.Presl ex Kunze (1851a: 291).
Type: 'Nepal', 1820, *N. Wallich 340* (B, lecto.), designated by Fraser-Jenkins (1989: 353); (BM, G, K, L, P, W, isolecto.), often mixed collections.

*A. paleaceum* Lag. ex Sw., Synopsis filicum: 52 (Mar.–Apr. 1806b).
Type: 'Peruvia', *M. Lagasca y Segura s.n*. (S, holo.).

*A. paleaceum* D.Don, Prodromus florae nepalensis: 4, 5 (26 Jan.–1 Feb. 1825), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Lag. ex Sw. (1806a: 52).
Type: 'Habitat in Nepaliae alpibus', *N. Wallich [340]* (BM, lecto.), designated by Fraser-Jenkins (1989: 354); (BM, K, iso.).

*Lastrea paleacea* (Lag. ex Sw.) T.Moore, Index filicum 2,9: 99 (1858b).

*Dryopteris paleacea* (D.Don) Hand.-Mazz. in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 58: 100 (1908), nom. nov. for *Aspidium wallichianum* Spreng. (1827: 104).

*Dryopteris paleacea* (Lag. ex Sw.) C.Chr. in American Fern Journal 1,5: 94 (Jul. 1911c), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non (T.Moore) Hand.-Mazz. (1908: 100).

*A. donianum* Spreng., Systema vegetabilium, edn 16, 4,1: 320 (Jan. 1827), nom. illeg. [McNeill *et al.* (2006), Art. 52.1].
Type: As for *Aspidium wallichianum* Spreng.

*Dryopteris doniana* (Spreng.) Ching in Sunyatsenia 6,1: 3 (1941b), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d)].

*A. parallelogramma* Kunze in Linnaea 13: 146 (1839).
Type: 'Regno Mexicano', *Hegewisch s.n*. (KIEL, syn.); 'Regno Mexicano', *W.F. Karwinski von Karwin s.n*. (?B, syn.).

*Dichasium paralellogrammum* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 302, pl. 23B, fig. 1 (1852).

*Nephrodium filix-mas* (L.) Rich. var. *parallelogrammum* (Kunze) Hook., Species filicum 4,14: 116 (Aug. 1862c).

*Dryopteris parallelogramma* (Kunze) Alston in American Fern Journal 47,3: 92 (16 Oct. 1957c).

Distribution: Gough Isl.

**Dryopteris wallichiana** *(Spreng.) Hyl*. subsp. **madagascariensis** *(C.Chr.) J.P.Roux*, comb. nov.

*D. paleacea* (Lag. ex Sw.) C.Chr. var. *madagascariesis* C.Chr. in Dansk Botanisk Arkiv 7: 35, t. 11, figs 5–9 (Oct. 1932b).
Type: Madagascar. 'Mt. Tsaratanana, 2 400 m, April 1924', *H. Perrier de la Bâthie 16454* (BM0008010113!, holo.; P00349500!, P00483234!,P00483235!, iso.).

Distribution: Madagascar.

**Dryopteris wallichiana** *(Spreng.) Hyl*. subsp. **reichsteinii** *Fraser-Jenk*. in Annales Botanici Fennici 33: 71 (18 Jun. 1996), non *D. reichsteinii* Fraser-Jenk. (1986: 191).
Type: 'Zimbabwe, Inyanga Mountains, source of the Pungwe River, under *Widdringtonia*, ± 2 100 m, 3.III.1979', *J.J. Schneller 237* (BM, holo.).

Distribution: Zimbabwe.

**Dryopteris wardii** *(Baker) Kuntze*, Revisio generum plantarum 2: 814 (5 Nov. 1891).

*Nephrodium wardii* Baker in Synopsis filicum, edn 2: 500 (Oct. 1874a).
Type: 'Seychelles', *C.J. Ward s.n*. (BM!, syn.).

*Polystichopsis wardii* (Baker) Tardieu in Notulae Systematicae (Paris) 15,2: 176 (Apr. 1956c).

*Araiostegia wardii* (Baker) Tardieu in Adansonia 5,4: 493 (1965).

Distribution: Seychelles.

## ELAPHOGLOSSUM

**Elaphoglossum** *Schott ex J.Sm*. in Journal of Botany (W.J. Hooker, ed.) 4: 148 (Aug. 1842a), nom. et typ. cons. Lectotype: *Elaphoglossum conforme* (Sw.) J.Sm.; *Acrostichum conforme* Sw., designated by Smith (1875: 125).

*Aconiopteris* C.Presl, Tentamen pteridographiae: 236, t. 10, fig. 17 (Oct. 1836). Type: *Aconiopteris subdiaphana* (Hook. & Grev.) C.Presl; *Acrostichum subdiaphanum* Hook. & Grev.

*Peltapteris* Link, Filicum species: 147 (Oct. 1841). Type: *Peltapteris peltata* (Sw.) C.V.Morton; *Osmunda peltata* Sw.

*Hymenodium* Fée, Mémoires sur la famille des fougères 2: 20 (1845a). Type: *Hymenodium crinitum* (L.) Fée; *Acrostichum crinitum* L.

*Microstaphyla* C.Presl, Epimeliae botanicae: 160 (1851). Type: *Microstaphyla bifurcata* (Jacq.) C.Presl; *Osmunda bifurcatua* Jacq.

*Elaphoglossum* Schott ex J.Sm. sect. *Elaphoglossum* subsect. *Pachyglossa* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 20 (1899c). Type: *Acrostichum conforme* Sw.; *Elaphoglossum conforme* (Sw.) Schott ex J.Sm.

*Elaphoglossum* Schott ex J.Sm. sect. *Lepidoglossa* H.Christ subsect. *Lepidoglossa* in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 21 (1899c). Lectotype: *Elaphoglossum paleaceum* (Hook. & Grev.) Sledge; *Acrostichum paleaceum* Hook. & Grev., designated by H.Christ (1899c: 21).

*Elaphoglossum* Schott ex J.Sm. sect. *Lepidoglossa* H.Christ subsect. *Pilosa* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 23 (1899c). Lectotype: *Elaphoglossum pilosum* (Humb. & Bonpl. ex Willd.) T.Moore; *Acrostichum pilosum* Humb. & Bonpl. ex Willd., designated by Mickel & Atehortúa (1980: 61).

*Elaphoglossum* Schott ex J.Sm. sect. *Lepidoglossa* H.Christ subsect. *Muscosa* Mickel & Atehortúa in American Fern Journal 70,2: 62 (30 Jun. 1980). Type: *Elaphoglossum muscosum* (Sw.) T.Moore; *Acrostichum muscosum* Sw.

*Elaphoglossum* Schott ex J.Sm. sect. *Polytrichia* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 22 (1899c). Lectotype: *Elaphoglossum crinitum* (L.) H.Christ; *Acrostichum crinitum* L., designated by Mickel & Atehortúa (1980: 63).

*Elaphoglossum* Schott ex J.Sm. sect. *Polytrichia* H.Christ subsect. *Hybrida* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 23 (1899c). Type: *Elaphoglossum hybridum* (Bory) T.Moore; *Acrostichum hybridum* Bory.

*Elaphoglossum* Schott ex J.Sm. sect. *Eximia* Mickel & Atehortúa subsect. *Eximia* in American Fern Journal 70,2: 65 (30 Jun. 1980). Type: *Elaphoglossum eximium* (Mett.) H.Christ; *Acrostichum eximium* Mett.

*Elaphoglossum* Schott ex J.Sm. sect. *Setosa* (H.Christ) Mickel & Atehortúa in American Fern Journal 70,2: 64 (30 Jun. 1980). Type: *Elaphoglossum villosum* (Sw.) J.Sm.; *Acrostichum villosum* Sw.

*Elaphoglossum* Schott ex J.Sm. sect. *Lepidoglossa* H.Christ subsect. *Polylepidea* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 21 (1899c). Type: *Elaphoglossum paleaceum* (Hook. & Grev.) Sledge; *Acrostichum paleaceum* Hook. & Grev.

*Elaphoglossum* Schott ex J.Sm. sect. *Lepidoglossa* H.Christ subsect. *Pilosella* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 23 (1899c). Type: *Elaphoglossum piloselloides* (C.Presl) T.Moore; *Acrostichum piloselloides* C.Presl.

*Elaphoglossum* Schott ex J.Sm. sect. *Setosa* H.Christ subsect. *Setosa* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 23 (1899c). Type: *Elaphoglossum villosum* Schott.

**Elaphoglossum achroalepis** *(Baker) C.Chr*., Index filicum: 302 (18 Nov. 1905).

*Acrostichum achroalepis* Baker in Journal of Botany, British and Foreign 1880,9: 371 (1880b).
Type: 'Between Tamatave and Antananarivo', *L. Kitching s.n.* (K000435732, holo.).

Distribution: Madagascar.

**Elaphoglossum acrostichoides** *(Hook. & Grev.) Schelpe* in Journal of South African Botany 30,4: 196 (21 Oct. 1964).

*Vittaria acrostichoides* Hook. & Grev., Icones filicum 2,10: pl. 186 (1830).
Type: 'Ad Promontorium Bonae Spei', 1822, *D. Thom s.n*. (K!, holo.).

*Drymoglossum acrostichoides* (Hook. & Grev.) T.Moore, Index filicum 1: xxxi (Mar. 1857b); 2,29: 343 (Jan. 1862a).

*Acrostichum lineatum* Kuhn ex H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 146 (1899c). Type: 'Madagascar, S. Betsileo Ankafina', *Hildebrandt 4179* (not located).

*E. conforme* (Sw.) J.Sm. var. *lineatum* (Kuhn ex H.Christ) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 61 (Feb. 1832a).

*A. conforme* Sw. var. *angustatum* Kunze in Linnaea 10: 495 (1836).
Type: 'Promont. Bon. Spei, in cacumine', *C.H. Bergius s.n*. (B20 0070141!, syn.); '*Burchell*, Geographicus Plantarum Africae Australis Extratropicae no. 479', (G!, lecto.), designated by Roux (1986: 352).

*E. inversum* (Cordem.) H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 146 (1899c).

*E. preussii* Hieron. in Botanische Jahrbücher 46,3: 402, 403 (1911).
Type: "Buea. Wald 1/2 Std. westlich von den Höhlen westlich von Buea. Epiphyt. 2400 m. 24.5.91", *P.R. Preuss 937* (B20 0071697!, holo.; P, iso.).

*E. petiolatum* var. *rupestre* sensu Sim, The ferns of South Africa, edn 2: 288, t. 150, fig. 2 (1915), non *E. petioltum* (Sw.) Urb. (1903: 60).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl., Congo, Côte d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

See Plate 6A.

**Elaphoglossum ×adulterinum** *Lorence* in Fern Gazette 12,6: 347, fig. 4 (1984).
Type: 'Mauritius. Valley of Cascade 500 Pieds (Cascade, Alexandra)', 1974, *D.H. Lorence 874* (MAU 16309, holo.).

Distribution: Mauritius.

**Elaphoglossum angulatum** *(Blume) T.Moore*, Index filicum 2,1: 5 (Jun. 1857i); 2,30: 351 (May 1862b).

*Acrostichum angulatum* Blume, Enumeratio plantarum Javae 2: 101 (15 Dec. 1828).
Type: 'Crescit in montibus Javae supra arbores', *C.L. von Blume s.n*. (K, holo.; PRC, iso.).

*Olfersia angulata* (Blume) C.Presl, Tentamen pteridographiae: 234 (Oct. 1836).

*A. inversum* Cordem., Flore de l'Ile de la Réunion: 84 (1895).
Type: 'Réunion. Grande montée de la Plaine des Cafres, 1899', *E.J. de Cordemoy s.n*., (P00466273, lecto., 2 left-hand specimens only), designated by Lorence & Rouhan (2004: 543).

*E. inversum* (Cordem.) H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 146 (1899c).

*A. laurifolium* Fée, Mémoires sur la famille des fougères 2: 36, t. 7 (1845a), non *Acrostichum laurifolium* Thouars (1808: 31).
Type: 'Habitat in salaziis Borbonia ad arbores montium', *Lépervanche-Mézières 14* (P00466271, holo.).

*E. alstonii* Tardieu in Notulae Systematicae (Paris) 15,4: 427, 433 (1959c), nom. nov. for *Acrostichum laurifolium* Fée (1845a: 36, 37), non Thouars (1808: 31).
Type: 'La Réunion: sans localité', *J.B.G.M. Bory de St.-Vincent 27–15* (P, holo.).

Distribution: Burundi, Congo, DRC, Kenya, Madagascar, Réunion, Tanzania.

**Elaphoglossum angustatum** *(Schrad.) Hieron*. in Botanische Jahrbücher 46,3: 404 (1911).

*Acrostichum angustatum* Schrad. in Göttingische Gelehrte Anzeigen 1818: 915 (1818).
Type: Cap. b. Sp., *M. Hesse s.n*. (GOET!, holo.; LE, iso.).

*Olfersia angustata* (Schrad.) C.Presl, Tentamen pteridographiae: 234 (Oct. 1836).

*A. conforme* Sw. var. *schraderi* Fée, Mémoires sur la famille des fougères 2: 31 (1845a).
Type: 'Habitat in Capite promontori bonae spei', *C.L.P. Zeyher s.n., C.F. Ecklon & H. Krauss s.n*. (not located).

*E. conforme* (Sw.) J.Sm. var. *latifolium* Sim, The ferns of South Africa, edn 2: 286, 287, pl. 148 (1915).
Type: 'Natal, from Kranzkloof through inner Inanda and Noodsberg to Umpumulo, 1500 to 2500 ft', *J. Buchanan s.n*. (NH!, lecto.), designated by Roux (1982b: 510); (K! iso.); 'Natal, hanging from rocks in crowded masses in midland districts', *J.M. Wood s.n*. (PRE, syn.); 'Rhodesia, Mount Pene, 7000 ft', *C.F.M. Swynerton 6009* (not located).

Distribution: Madagascar, South Africa.

**Elaphoglossum aspidiolepis** *(Baker) C.Chr*., Index filicum: 303 (18 Nov. 1905).

*Acrostichum aspidiolepis* Baker in Journal of Botany, British and Foreign 1880,9: 371 (1880b).
Type: Madagascar. 'Ankaratra mountains', *L. Kitching s.n*. (K?, holo.).

Distribution: Madagascar.

**Elaphoglossum asterolepis** *(Baker) C.Chr*., Index filicum: 5 (5 May 1905).

*Acrostichum asterolepis* Baker in Journal of Botany, British and Foreign 1880,9: 371, 372 (1880b).
Type: Madagascar. 'Tanala', *L. Kitching s.n*. (K000435730, holo.).

Distribution: Madagascar.

**Elaphoglossum aubertii** *(Desv.) T.Moore*, Index filicum 2,1: 5 (Jun. 1857i); 2,30: 352 (May 1862b).

*Acrostichum aubertii* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 309 (1811).
Type: 'Habitat in insula Borboniae', 1808, *L.-M.A. du Petit-Thouars s.n*. (P-JU!, holo.).

*A. boivinii* Mett. ex Kuhn, Filices africanae: 43 (Oct. 1868).
Type: 'Ins. Mauritii', *L.H. Boivin s.n*. (not loated).

*E. aubertii* T.Moore var. *reductum* Bonap. in Notes Ptéridologiques 16: 125 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique de Centre. Vers 1 400 mètres d'altitude. Forêt à sous-bois herbacé. Rocailles humides des bords d'un torrent. Avril 1921', *H. Perrier de la Bâthie 13665* (P00466269, P00466270, syn.).

Distribution: Bioko, Cameroon, Comoro Isl., Congo, DRC, Equatorial Guinea, Ethiopia, Kenya, Liberia, Madagascar, Malawi, ?Mauritius, Mozambique, Réunion, Rwanda, São Tomé, South Africa, Tanzania, Uganda, Zimbabwe.

**Elaphoglossum avaratraense** *Rakotondr.* in Boissiera 59: 77, fig. 1 (5 Jul. 2002).

Type: 'Madagascar, district d'Ambanja, Réserve Spéciale du Manongarivo, mont Bekolosy, 14°5'S, 48°17'E, alt. 1 150 m, fév. 1992', *F. Rakotondrainibe 1456* (P00085727, holo.).

Distribution: Madagascar.

**Elaphoglossum barteri** *(Baker) C.Chr*., Index filicum: 303 (18 Nov. 1905).

*Acrostichum barteri* Baker in Synopsis filicum, edn 2: 519 (Oct. 1874a).
Type: 'Sierra Leone', *C. Barter 1816* (K000435748, lecto.), designated by Schelpe (1969b: 30); 'Upper Guinea', *W. Brass s.n*. (syn., not located).

Distribution: Cameroon, Cote d'Ivoire, Equatorial Guinea, Guinea, Liberia, Nigeria, Sierra Leone.

**Elaphoglossum bifurcatum** *(Jacq.) Sw*., Synopsis filicum: 12, 13 (Mar.–Apr. 1806b).

*Osmunda bifurcata* Jacq., Collectanea 3: 282, pl. 20, fig. 4 [1789] (1791).
Type: 'Crescit in insula Sanctae Helenae', based on Plukenet, Phytographia: t. 350, fig. 4 (1692).

*Acrostichum bifurcatum* (Jacq.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 13 (1801), non *A. bifurcatum* Cav. (1799: 105).

*Gymnogramme bifurcata* (Jacq.) Kaulf., Das Wesen der Farrenkräuter: 81 (1827).

*Olfersia bifurcata* (Jacq.) C.Presl, Tentamen pteridographiae: 234 (Oct. 1836).

*Polybotrya bifurcata* (Jacq.) J.Sm., Journal of Botany (W.J. Hooker, ed.) 4: 150 (1842a).

*Microstaphyla bifurcata* (Jacq.) C.Presl, Epimeliae botanicae: 161 (1851).

*Adiantum furcatum* L.f., Supplementum plantarum: 447 (Apr. 1782).
Type: 'Habitat in rupibus insulae S. Helenae', *Forster, Lichtenstein, Sieboldt, H. Cuming 420* (Z000002199, iso.).

*Microstaphyla furcata* (L.f.) Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 45, t. 13, fig. 1 (1857a).

*P. furcata* (L.f.) Mett. ex Kuhn, Filices africanae: 52 (Oct. 1868).

*Darea furcans* Bory in Voyage autour du monde Cryptogamie 6: 269, t. 35, fig. 2 (Nov. 1829).

*Anogramme paradoxa* Fée, Cinquième mémoires sur la famille des fougères: 184 (1852).

*Monogramma graminioides* sensu Melliss, St Helena: 354 (Mar.–Apr. 1875).

Distribution: St Helena.

**Elaphoglossum ×cadetii** *Lorence* in Fern Gazette 12,6: 346, fig. 3 (1984), putative hybrid between *E. acrostichoides* × *E. coursii*.
Type: 'Réunion, Plaine des Sables', *T. Cadet 2063* (REU, holo.; P, iso.).

Distribution: Réunion.

**Elaphoglossum campylolepium** *J.P.Roux* in South African Journal of Botany 57,5: 234, figs 1, 2 (1991).
Type: 'Inaccessible Island, plateau at west end, tree fern country, 450 m, 26 February 1938', *C. Christophersen 2556* (O!, holo.).

Distribution: Inaccessible Isl., Tristan da Cunha.

**Elaphoglossum capuronii** *Tardieu* in Notulae Systematicae (Paris) 15,4: 433 (1959c).
Type: Madagascar. 'Centre: montagne au nord de Mangindrano, jusqu'aux som-

mets d'Ambohimirahavavy', *H. Humbert & R. Capuron 25104* (P00148982, holo.; P00466267, iso.).

Distribution: Madagascar.

**Elaphoglossum cerussatum** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 238, 240, fig. 8, t. 5–7 (1955f).
Type: Madagascar. 'Massif du Marojy, à l'Ouest de la rivière Manantenina, affluent de la Lokoho, forêt ombrophile, sur latérite de gneiss, 1 400 m', *H. Humbert 22471* (P, holo.).

Distribution: Madagascar.

**Elaphoglossum chevalieri** *H.Christ* in Journal de botanique (L. Morot, ed.) 22: 23 (1909a).
Type: 'San Thomé: Monte Café et Pic de San Thomé, août-sept. 1905', *A. Chevalier 14292 bis* (P00466265, P00466266, holo.).

Distribution: Côte d'Ivoire, Guinea, Liberia, Malawi, Mali, Mozambique, Príncipe, São Tomé, Sierra Leone, Zimbabwe.

**Elaphoglossum cinnamomeum** *(Baker) Diels* in Die natürlichen Pflanzenfamilien 1,4: 333 (Oct. 1899b).

*Acrostichum cinnamomeum* Baker in Synopsis filicum 10: 409 (Apr. 1868b).
Type: 'Clarence Peak, Fernando Po', *G. Mann 668* (K, syn.); 'Cameroon Mountains', *G. Mann s.n.* (K?, syn.).

*A. mannianum* Mett. ex Kuhn, Filices africanae: 46 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Ins. Fernando Po', *G. Mann 668* (K?, syn.); 'Montes Cameroon', *G. Mann 2062* (K000435746, syn.).

*E. mannianum* Mett. ex H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 148 (1899c).
Type: As for *Acrostichum mannianum* Mett. ex Kuhn.

*A. clarenceanum* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1896: 42 (1896).
Type: 'Clarence Peak, Fernando Po, alt. 6000–7000 ft., on trees', *F.X.O. de A, Newton s.n.* (K000435747, holo.).

*E. clarenceanum* (Baker) C.Chr., Index filicum: 304 (18 Nov. 1905).

Distribution: Bioko, Cameroon, Liberia.

**Elaphoglossum conforme** *(Sw.) J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 4: 148 (1842a).

*Acrostichum conforme* Sw., Synopsis filicum: 10, 192, fig. 1 (Mar.–Apr. 1806b).
Type: "Habitat in Insula St Helenae", *F. Masson s.n.* (UPS-Thunb 24405!, holo.; BOL128052, fragm., iso.).

*Olfersia conformis* (Sw.) C.Presl, Tentamen pteridographiae: 234 (Oct. 1836).

*A. oblongum* Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 308 (1811).
Type: 'Habitat ad C. bonae Spei', *A.N. Desvaux s.n.* (P00466264!, holo.).

*A. glandulosum* Carmich. ex Hook. & Grev., Icones filicum 1,1: pl. 3 (Feb. 1827a).
Type: Cape of Good Hope, 1822, *D. Carmichael s.n.* (K000435735!, holo.).

*E. conforme* Schott ex J.Sm. var. *glandulosum* Carmich. ex T.Moore, Index filicum 2,30: 354 (1862b).
Type: As for *Acrostichum glandulosum* Carmich. ex Hook. & Grev.

*A. conforme* Sw. var. *glandulosum* (Carmich. ex Hook. & Grev.) Fée in Mémoires sur la famille des fougères 2: 31 (1845a).

*A. viscosum* Sw. var. *rupestre* Sim, The ferns of South Africa: 222, pl. CXXXII, fig. 2 (1892), p.p.
Type: 'Table Mountain', *H. Bolus 3899*, p.p. (BOL, lecto.), designated by Schelpe & Anthony (1986: 235); 'Zwaarteberg, Caledon', *C.F. Ecklon s.n.* (not located); 'Dohne Hill, Perie etc.', *T.R. Sim s.n.* (not located); 'Pilgrim's Rest', *J.H. McLea s.n.*', (not located).

*E. petiolatum* (Sw.) Urb. var. *rupestre* (Sim) Sim, The ferns of South Africa, edn 2: 288, pl. 150, fig. 2 (1915).

Distribution: Bioko, Congo, DRC, Liberia, Madagascar, South Africa, St Helena, Tanzania, Uganda.

**Elaphoglossum coriaceum** *Bonap.* in Notes Ptéridologiques 1: 66 (14 Jul. 1915a).
Type: 'Madagascar. Grande forêt d'Analamazoatra, Décembre 1906', *Ch. d'Alleizette 46* (P00466263, syn.); 'Madagascar. Province de Mananjary, zône cotière, forêts humides épiphytes, Mars-Avril 1909', *F. Geay 109* (P00466262, syn.).

Distribution: Madagascar.

**Elaphoglossum coursii** *Tardieu* in Notulae Systematicae (Paris) 15,4: 434 (1959c).
Type: Madagascar. 'Centre: montagnes du Nord de Mangindrano, jusqu'au sommet d'Ambohimirahavavy, 1 600–1 800 m', *H. Humbert & R. Capuron 24918* (P00466261, holo.; K, iso.).

Distribution: Comoro Isl., Madagascar, Réunion, Zambia [Lorence & Rouhan (2004: 545)].

**Elaphoglossum decaryanum** *Tardieu* in Notulae Systematicae (Paris) 15,4: 436, pl. 5, figs 1–3 (1959c).
Type: Madagascar. 'Est: Anosibe', *R. Decary 18295* (P00466259, holo.; P00466260, iso.).

Distribution: Madagascar.

**Elaphoglossum deckenii** *(Kuhn) C.Chr.*, Index filicum: 8 (5 May 1905), 305 (18 Nov. 1905).

*Acrostichum deckenii* Kuhn, Filices africanae: 16, 17 (Oct. 1868).
Type: "Kilema ad radices montis Kilimandjaro (reg. Dschagga). 3–4000'. anno 1864", *K. von der Decken & O. Kersten 5* (B20 0051643!, holo.).

*E. hirtum* C.Chr. var. *giganteum* Bonap. in Notes Ptéridologiques 14: 337 (23 Nov. 1923b).
Type: 'Ruwenzori. Butagu. Environ 3 000 mètres d'altitude. Sur vieux tronc d'Eria, entre les mousses', *J.C.C. Bequaert 3851* (BR, holo.).

*E. ruwenzorii* Pirotta in Annali di Botanica. Genoa 7: 174 (1908).
Type: Uganda, Mt. Ruwenzori, 18 July 1906, *Duke of Abruzzi Expedition s.n.* (P, syn.); 'Valle Mobuku', *Duke of Abruzzi Expedition s.n.* (RO, syn.).

*E. tanganjicense* Krajina ex Pic.Serm. in Webbia 23,1: 239–241, figs 5, 6 (20 Nov. 1968b).
Type: "Deutsch Ost Afrika (Tanganjika Terr.), Bezirk Morogoro: Ulugurugebirge. NW ca. 1 480 m Nebelwald, Farn vereinzelt am Bäumen u. Felsen Kiluguru Lussangasanga, 10.12.1932", *H.J. Schlieben 3071* (B20 0072090!, holo.; BM, G, P00466217, S, iso.).

*E. squamosum* sensu H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 147 (1899c), non *Acrostichum squamosum* Sw. (1801: 11).

*E. hirtum* sensu C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 187 (1924).

Distribution: DRC, Ethiopia, Kenya, Madagascar, Malawi, Rwanda, Tanzania, Uganda, Zimbabwe.

**Elaphoglossum didynamum** *(Fée) T.Moore*, Index filicum 2,1: 8 (1857i).

*Acrostichum didynamum* Fée, Mémoires sur la famille des fougères 2: 37, t. 16, fig. 2 (1845a).
Type: 'Habitat in Borbonia', *P. Lépervanche-Mézières s.n*. (P00466245, holo.).

*A. subsessile* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 300 (1897), non Baker (1884c: 143).
Type: 'Madagascar. Forest of Ambohimitombo, province of Tanala', *C.I. Forsyth-Major 204* (K?, holo.).

*E. malgassicum* C.Chr., Index filicum: 310 (18 Nov. 1905), nom. nov. for *Acrostichum subsessile* Baker (1897: 300), non Baker (1884c: 143).

Distribution: Madagascar, Réunion.

**Elaphoglossum dimorphum** *(Hook. & Grev.) T.Moore*, Index filicum 2,30: 355 (1862b).

*Acrostichum dimorphum* Hook. & Grev., Icones filicum 2,8: pl. 145 (1829c).
Type: 'Ex Insula Sanctae Helenae', *A. Walker s.n.* (?K, holo.).

*Olfersia dimorpha* (Hook. & Grev.) C.Presl, Tentamen pteridographiae: 235 (Oct. 1836).

Distribution: St Helena.

**Elaphoglossum drakensbergense** *Schelpe* in Journal of South African Botany 34,4: 237, pl. 2 (1968b).
Type: 'Natal, Estcourt District, Drakensberg, Injasuti area, weathered rock faces overhung by rock, S-apect, 6500–7500 ft. vii. 1956', *E. Esterhuysen 26052* (BOL!, holo.; B20 0070372, BM!, C!, GH, K000435717!, M, MO, P00466258, PR, PRE0549431, S, iso.).

Distribution: Lesotho, South Africa.

**Elaphoglossum falcatum** *(Fée) T.Moore*, Index filicum 2,1: 9 (1857i).

*Acrostichum falcatum* Fée in Mémoires sur la famille des fougères 2: 44, t. 21, fig. 1 (1845a).
Type: 'Habitat ad rupes muscosas inter arbores et arbustos Borboniae', *Lépervanche-Mézières & J.M.C. Richard s.n*. (P00466274, P00466275, holo.).

Distribution: Réunion.

**Elaphoglossum forsythii-majoris** *H.Christ* in Bulletin de l'Herbier Boissier, sér. 2, 1: 32 (30 Dec. 1903c).
Type: Madagascar. 'Ambohimitombo forest (Tanala), 1350–1430 m. 21 Dec. 1894.', *C.I. Forsyth-Major 187* (P00466257, holo.).

*E. forsythii-majoris* H.Christ var. *acutifrons* Bonap. in Notes Ptéridologiques 16: 127 (1925a).
Type: 'Région floristique de Centre. Mont Hity vers 1 800 mètres d'altitude. Rocailles granitiques ombragées. Mars 1921', *H. Perrier de la Bâthie 13577* (P00466246, holo.; P00466247, iso.).

Distribution: Madagascar.

**Elaphoglossum gracilifolium** *J.P.Roux* in Botanical Journal of the Linnean Society 112,3: 220, figs 2C, D, 5O–V, 7E, F (1993a).
Type: 'Inaccessible Island. Long ridge, rare in exposed conditions, epiphytic on *Blechnum palmiforme* caudices, 450 m', *J.P. Roux 2133* (NBG0148807-0!, holo.).

Distribution: Inaccessible Isl.

**Elaphoglossum heterolepis** *(Fée) T.Moore*, Index filicum 2,1: 10 (1857i).

*Acrostichum heterolepis* Fée in Mémoires sur la famille des fougères 2: 56, pl. 15, fig. 1 (1845a), non *Acrostichum heterolepis* Baker (1874a: 521).
Type: Mauritius, *F.W. Sieber*, Flora mixta 281 (PR, lecto.), designated by Rouhan & Lorence (2003: 838).

Distribution: Mauritius, Réunion.

**Elaphoglossum ×heterophlebium** *Lorence* in Fern Gazette 12,6: 343, 345, 346, fig. 2 (1984), putative hybrid between *E. heterolepis* × *E. tomentosum*.
Type: 'Mauritius. Pétrin Nature Reserve', 1973, *D.H. Lorence 14.2* (MAU15821, holo.).

Distribution: Mauritius.

**Elaphoglossum hornei** *C.Chr*. in Transactions of the Linnean Society of London. Botany 7,19: 422, 423, pl. 45, figs 4–7 (Nov. 1912).
Type: 'Mahé', *J. Horne 171* (BM?, holo.).

Distribution: Mauritius.

**Elaphoglossum humbertii** *C.Chr*. in Dansk Botanisk Arkiv 7: 166, pl. 66, figs 4, 5 (Oct. 1932b).
Type: Madagascar. 'Bassin de l'Itomampy (Sud-Est), Mont Papanga près de Befotaka, rochers siliceux en forêts, 1 300–1 700 m. d'alt. 21 Dec. 1928', *H. Humbert 6900* (BM?, holo.).

*E. humbertii* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 62 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 35.1(d) & Art. 41.3].

Distribution: Madagascar.

**Elaphoglossum hybridum** *(Bory) Brack*., United States Exploring Expedition. Filices 16: 69 (Sep.–Nov. 1854).

*Acrostichum hybridum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 3: 95 (Sep. 1804c), non *Elaphoglossum hybridum* (Bory) T.Moore (1857i: 10).
Type: 'Bourbon, Caverne Le Gentil, 1847', *J.B.G.M. Bory de St.-Vincent s.n*. (P00466256!, holo.).

*Olfersia hybrida* (Bory) C.Presl, Tentamen pteridographiae: 235 (Oct. 1836).

*A. ciliare* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 32 (Oct. 1808), non Carmich. (1818: 510).
Type: Tristan da Cunha, erroneously given as 'Isle-de-France et Bourbon', *L.-M.A. du Petit-Thouars s.n*. (P, holo.).

*A. ciliatum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 310 (1811), non *Acrostichum ciliatum* C.Presl (1825: 15).
Type: 'Habitat in insula Bourboniae', *P. Commerson s.n*. (P-JU 1000A, lecto.), designated by Schelpe (1969b: 32).

*A. hybridum* (Bory) Brack. var. *vulcani* Lepervanche ex Fée, Mémoires sur la famille des fougères 2: 41, t. 9, fig. 3 (1845a).
Type: 'Habitat in Bourbonia ad montes ignivomos excelsiores', Bourbon. Plaine des Palmistes, Plaine des Cafres, Jun. 1831, *P. Lépervanche-Mézières s.n*. (P00466255, holo.).

*E. hybridum* (Bory) Brack. var. *vulcanii* (Lepervanche ex Fée) H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 104 (1899c).

*A. tricholepis* Baker in Journal of Botany, British and Foreign 1819: 5 (1891b).
Type: 'Madagascar, Bé Kilus Mountains', *J.T. Last s.n.* (K000435725, holo.).

*E. tricholepis* (Baker) C.Chr., Index filicum: 317 (18 Nov. 1905).

*E. hybridum* (Bory) Brack. var. *cuneatum* Bonap. in Notes Ptéridologiques 14: 419 (23 Nov. 1923c).
Type: "Grande Comore, Environs Nioumbadjou", *L. Humbert s.n.* (P00212873, holo.).

*E. hybridum* (Bory) T.Moore var. *cuneatum* Bonap. f. *minimum* Bonap. in Notes Ptéridologiques 16: 128 (14 Apr. 1925a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar. 'Région floristique du Centre. Massif d'Andringitra. Vers 2 400 mètres d'altitude. Brousse ericoïde. Rocailles humides et très ombragèes. Avril 1921', *H. Perrier de la Bâthie 13727* (P00466254, syn.); Madagascar. 'Régio floristique du Centre. Massif d'Andringitra. 2 600 mètres d'altitude environ. Rocailles abscures. Février 1922', *H. Perrier de la Bâthie 14504* (P00466253, syn.).

Chromosome number: diploid, n = 41, 2n = 82 (Manton & Vida 1968: 364).

Distribution: Bioko, Cameroon, Comoro Isl., Congo, DRC, Ethiopia, Gough Isl., Inaccessible Isl., Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, South Africa, Tanzania, Trisan da Cunha, Uganda, Zimbabwe.

**Elaphoglossum insulare** *C.Chr.* in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 21, fig. 2 (1940).
Type: 'Middle Pond Crater, alt. 550–600 m, on moss covered rocks', *I. Mejland 1618* (O!, holo.).

Distribution: Gough Isl., Tristan da Cunha.

**Elaphoglossum isabelense** *Brause* in Botanische Jahrbücher 53: 432, 433 (1915).
Type: 'Westafrika: Fernando Poo, Nordseite des Pics von Sta. Isabel oberhalb Basilé; Gebirgswald, grössere epiphytische Art, 1 100–1 400 m ü. M., 16 Aug. 1911', *G.W.J. Mildbraed 6367* (B20 0051637, holo.; P, iso.).

Distribution: Bioko, Equatorial Guinea, Príncipe, São Tomé.

**Elaphoglossum kivuense** *Schelpe* in Contributions from the Bolus Herbarium 1: 28 (1969b).
Type: 'Congo, Mountains W. of Lake Kivu, Massif du Kahuzi, 2 800 m', *H. Humbert 7687* (P00466248, holo.; BM!, BR, P00466249, iso.).

Distribution: DRC, Rwanda, Sudan.

**Elaphoglossum kuhnii** *Hieron.* in Botanische Jahrbücher 46,3: 399, 400 (1911).
Type: 'Sierra Leone: an nicht genauer angegeben Orte, Mai 1851', *C. Barter 6* (B20 0070846!, BM, K!, P00466214, P00466215, syn.); 'Kamerun: an Baumstämmen des Urwaldes bei Lolodorf, Bezirk Kribi, bei 600 m Höhe ü. M.', *G.A. Zenker 2479* (B20 0070944!, lecto.), designated by Pichi Sermolli (1975b: 97); (K!, isolecto.); 'Kamerun, bei Moliwe, August 1905', *R. Schlechter 15790* (B 20 0070945!, syn.).

*E. camerouniense* Tardieu in Tardieu-Blot *et al.* in Études Camerounaises 2,25/26: 92 (1950).
Type: 'Cameroun: Makak, sur branches élecées, oct. 1938', *H. Jacques-Felix 2331* (P00466216, holo.; P00151014, iso.).

Distribution: Bioko, Cameroon, Liberia, Sierra Leone.

**Elaphoglossum lanatum** *(Bojer ex Baker) Lorence* in Fern Gazette 11,4: 199, fig. 1a–g (1976b).

*Acrostichum viscosum* Sw. var. *lanatum* Bojer ex Baker, Flora of Mauritius and the Seychelles: 512 (2 Aug. 1877b).
Type: Maurice. "Hab. in rupibus, et ad rivulorum ripas in ins. Mauritii au quart. Moka, juxta Bois Chéri", *W. Bojer s.n.* (K, holo., p.p., 4 left-hand specimens only).

Distribution: Mauritius.

**Elaphoglossum lancifolium** *(Desv.) C.V.Morton* in Contributions from the United States National Herbarium 38,2: 32 (1967).

*Acrostichum lancifolium* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 310 (1811).
Type: Mascareignes. 1801, *L.-M.A. du Petit-Thouars s.n.* (P-JU 1004, holo.).

*A. obductum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 34 (1827), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Acrostichum lancifolium* Desv.

*A. viscosum* Sw., Synopsis filicum: 10, 193 (Mar.–Apr. 1806b), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: 'Habitat in India orientali et in Jamaica', *O. Swartz s.n.* (S, fragm., holo.).

*A. salicifolium* Willd. ex Kaulf., Enumeratio filicum: 58, 59 (Oct. 1824).
Type: "Habitat in insula Bourboniae", *R. Desfontaines s.n.* (B-W 19509!, right-hand specimen, holo.).

*A. viscosum* (J.Sm.) Fée var. *salicifolium* (Willd. ex Kaulf.) Fée, Mémoires sur la famille des fougères 2: 46 (1845a).

*E. viscosum* Schott var. *salicifolium* (Willd. ex Kaulf.) Hieron. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 35 (Dec. 1910).

*E. petiolatum* (Sw.) Urb. var. *salicifolium* (Willd. ex Kaulf.) C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 423 (Nov. 1912).

*E. salicifolium* (Willd. ex Kaulf.) Alston in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 92 (1 Sep. 1944).

*E. petiolatum* (Sw.) Urb. subsp. *salicifolium* (Willd. ex Kaulf.) Schelpe in Contributions from the Bolus Herbarium 1: 34 (17 Dec. 1969b).

*E. lineare* sensu Sim, The ferns of South Africa, edn 2: 290, pl. 151, fig. 2 (1915), non (Fée) T.Moore (1857i: 11).

Distribution: Bioko, Cameroon, Comoro Isl., DRC, Ghana, Guinea, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, São Tomé, Seychelles, Sierra Leone, Tanzania, Zambia, Zimbabwe.

**Elaphoglossum lasiolepium** *J.P.Roux* in Botanical Journal of the Linnean Society 112,3: 215, figs 2A, B, 5A–H (1993a).
Type: 'Gough Island, on low cliff west of meteorological station, near river, 65 m', *J.P. Roux 756* (NBG0200363-0!, holo.).

Distribution: Gough Isl.

**Elaphoglossum lastii** *(Baker) C.Chr*., Index filicum: 309 (18 Nov. 1905).

*Acrostichum lastii* Baker in Annals of botany (C. König, J. Sims, eds) 5: 491 (1891a).
Type: "Mainland west of Zanzibar 3/85", *J.T. Last s.n*. (K000435740!, holo.).

*A. volkensii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 81 (Jun. 1895).
Type: "Flora of Kilimandscharo. In Gurtelwalde, an Bäumen, vertreitet. Oberhalb Marangu, 2 100 m. 21.10.93", *G.L.A. Volkens 1287* (B20 0072256!, holo.; BM!, K000435741, iso.).

*E. volkensii* (Hieron.) C.Chr., Index filicum: 318 (18 Nov. 1905).

*E. obtusum* Peter in Feddes Repertorium, Beiheft 40,1: 23, Abhang 2, t. I, fig. 5 (1929).
Type: "Deutsch-Ost-Africa. Landschaft W. Usambara: Urwald über Balangai. 1 250 m. Epiphyte III. 1916. V1 Z2. Exkursion OIV", *A. Peter 16088* (B20 0070976!, syn.; BM!, HBG, K000435742, isosyn.); 'Kamm des Kisimba 1900', *A. Peter 16480* (GOET, HBG, syn.).

*E. convolutum* Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 149, 150 (1935).
Type: Kenya. "Tusu. bosco. 17.1.1911", *Balbo 769* (TOM, holo.).

Distribution: Cameroon, DRC, Equatorial Guinea, Ethiopia, Kenya, Malawi, Mozambique, Sudan, Pemba, Tanzania, Zimbabwe.

**Elaphoglossum laurifolium** *(Thouars) T.Moore*, Index filicum 2,1: 11 (1857i).

*Acrostichum laurifolium* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 31, 32 (Oct. 1808), non *A. laurifolium* Fée (1845a: 36, 37).
Type: Tristan da Cunha, erroneously given as 'au Cap, à l'Isle-de-France, Bourbon', *L.-M.A. du Petit-Thouars s.n*. (P!, holo.).

*A. conforme* sensu Carmich. in Transactions of the Linnean Society of London 12: 509 (1818), non Sw. (1806a: 10, 192).
Type: Tristan da Cunha. 'In the wood', *D. Carmichael s.n*. (BM?, holo.).

Chromosome number: hexaploid, 2n = ± 250 (Manton & Vida 1968: 364).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

**Elaphoglossum lepervanchei** *(Bory ex Fée) T.Moore*, Index filicum 2,1: 11 (1857i).

*Acrostichum lepervanchei* Bory ex Fée, Mémoires sur la famille des fougères 2: 37, t. 9, fig. 1 (1845a).
Type: 'Habitat in Borboniae montibus', *J.B.G.M. Bory de St.-Vincent s.n*. (P00466243, lecto., right-hand specimen only), designated by Lorence (1976b: 200); (P00466244, isolecto.).

*A. curtisii* Baker in Annals of botany (C. König, J. Sims, eds) 5: 489 (1891a), nom. nov. for *Acrostichum schizolepis* Baker (1881c: 368), non *A. schizolepis* Baker (1876b: 421).
Type: Madagascar. 1881, *C. Curtis 121* (K000435729, holo.).

*E. curtisii* (Baker) C.Chr., Index filicum: 305 (18 Nov. 1905).

*A. borbonicum* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 491 (1891a).
Type: 'Bourbon', *I.B. Balfour 27* (K000435722, holo.).

*E. borbonicum* (Baker) C.Chr., Index filicum: 303 (18 Nov. 1905).

*A. ovalifolium* Bojer, Hortus mauritianus: 414 (1837), nom. nud. [McNeill *et al.* (2006) Art. 52.1], non *Acrostichum ovalifolium* Fée (1869: 3).
Type: 'Ile Maurice. Croit sur les hautes montagnes dans les lieux secs et ombrages, et les bois du Grand-Port et de Flacq', *W. Bojer s.n*. (P?, holo.).

*A. latifolium* sensu Baker, Flora of Mauritius and the Seychelles: 511 (2 Aug. 1877b), non *Acrostichum latifolium* Sw. (1788: 128).

*E. conforme* sensu C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 420 (1912), non *E. conforme* (Sw.) J.Sm. (1842a: 148).

*E. latifolium* sensu C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 422 (1912), non *E. latifolium* (Sw.) J.Sm. (1842a: 197).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion.

**Elaphoglossum leucolepis** *(Baker) Krajina ex Tardieu* in Notulae Systematicae (Paris) 15,4: 432 (Oct. 1959c).

*Acrostichum squamosum* Sw. var. *leucolepis* Baker in Journal of the Linnean Society, Botany 16: 205 (1877a).
Type: Madagascar, *H. Gilpin s.n*. (K?, holo.).

Distribution: Madagascar.

**Elaphoglossum macropodium** *(Fée) T.Moore*, Index filicum 2,1: 11 (Jun. 1857i); 2,30: 360, 361 (May 1862b).

*Acrostichum macropodium* Fée, Mémoires sur la famille des fougères 2: 30, t. 6, fig. 2 (1845a).
Type: 'Habitat in Borbonia ad arborum truncos annosus et lapides muscosas', 1844, *J.B.G.M. Bory de St.-Vincent s.n*. (P00466337!, holo.; P00466338, iso.).

*A. conforme* Sw. var. *carmichaelii* Baker, Flora of Mauritius and the Seychelles: 511 (2 Aug. 1877b).
Type: 'Mauritius', *D. Carmichael s.n*. (K, holo.).

*A. latifolium* sensu Sim, The ferns of South Africa: 220, pl. CXXXI (1892).

Distribution: Comoro Isl. (Grande Comore), Malawi, Mauritius, Mozambique, Réunion, Seychelles, South Africa, Tanzania, Zimbabwe.

**Elaphoglossum marojejyense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 238, fig. 8, t. 1–4 (1955f).
Type: Madagascar. 'Contreforts du Marojejy, près du col de Doanyanala, 900–1 000 m, sur latérite de gneiss', *H. Humbert 23105* (P00466239, holo.).

Distribution: Madagascar.

**Elaphoglossum mildbraedii** *Hieron*. in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Botanik 2: 34, 35 (Dec. 1910).
Type: 'Ruwenzori: Butagu-Tal, an einer niedrigen trockenen Felswand im Baumbushwald der Vorberge, 1 800–2 000 m (Febr. 1908)', *G.W.J. Mildbraed 2710* (B20 0051638! holo.; B20 0051639!, iso.).

Distribution: Burundi, Congo, Kenya, Malawi, Tanzania, Uganda.

**Elaphoglossum multisquamosum** *Bonap*. in Notes Ptéridologiques 1: 67, 68 (14 Jul. 1915a).
Type: 'Madagascar. Ambohimange. Bois. Forêts. Le 12 Juin 1905', *C. d'Alleizette 167* (P00466229, P00466230, syn.); 'Madagascar. Halfy', *C. d'Alleizette 42* (P00466228, syn.).

Distribution: Madagascar.

**Elaphoglossum nervosum** *(Bory) H.Christ* in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 50, fig. 13 (1899c).

*Acrostichum nervosum* Bory in Voyage autour du monde Cryptogamie 6: 252 (Nov. 1829).
Type: 'l'île Sainte-Hélène', *Dumont D'Urville s.n*. (?P, holo.).

*Aconiopteris nervosa* (Bory) J.Sm., Ferns: British & foreign: 107 (Jun.–Jul. 1866).

*Acrostichum subdiaphanum* Hook. & Grev., Icones filicum 1, 6: pl. 105 (1829a).
Type: unknown to current author.

*Aconiopteris subdiaphana* (Hook. & Grev.) C.Presl, Tentamen pteridographiae: 236, pl. 10, fig. 17 (Oct. 1836).

*Olfersia subdiaphana* (Hook. & Grev.) T.Moore, Index filicum 1: xviii (1857a).

*Acrostichum lanceolatum* Roxb. in Tracts relative to the island of St Helena: 296 (Jan. 1816), nom. illeg. [McNeill *et al.* (2006) Art. 53.1 & Art. 41.3], non L. (1753: 1067).
Type: St Helena, *J. Roxburgh s.n*. (?BM, holo.).

Distribution: St Helena.

**Elaphoglossum obtusatum** *(Carmich.) C.Chr*. in Results of the Norwegian Scientific Expedition to Tristan da Cunha 1937–1938 6: 20 (1940).

*Acrostichum obtusatum* Carmich. in Transactions of the Linnean Society of London 12: 510 (1818).
Type: Tristan da Cunha. 'On highest rocks of the tableland', *D. Carmichael s.n*. (BM, holo.).

*A. piloselloides* C.Presl var. *obtusatum* (Carmich.) Hook., Species filicum 5,18/20: 227, 228 (Jun. 1864b).

*A. ciliare* Carmich. in Transactions of the Linnean Society of London 12: 510 (1818), non Thouars (1808: 32).
Type: Tristan da Cunha. 'Grows on the mouldering banks of the ravines', *L.-M.A. du Petit-Thouars s.n*. (P!, holo.).

*A. spathulatum* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 169 [1884] (Mar.–Jun. 1885b).

Distribution: Inaccessible Isl., Tristan da Cunha.

**Elaphoglossum ovalilimbatum** *Bonap.* in Notes Ptéridologiques 16: 129, 130 (14 Apr. 1925a).
Type: 'Région floristique du Centre. Massif de Manongarivo. Vers 800 mètres d'altitude. Sur les trioncs d'arbres. Avril 1909', *H. Perrier de la Bâthie 7860* (P00466236, holo.).

Distribution: Madagascar.

**Elaphoglossum perrierianum** *C.Chr*. in Dansk Botanisk Arkiv 7: 171, pl. 67, figs 1–3 (Oct. 1932b).
Type: Madagascar. Mt. Tsaratanana, brousse éricoide vers 2 600 m, avril 1925', *H. Perrier de la Bâthie 16457* (BM?, holo.).

*E. perrierianum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 62 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Elaphoglossum phanerophlebium** *C.Chr*. in Dansk Botanisk Arkiv 7: 169, pl. 68, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Forêt orientale, environs du confluent de l'Onive et du Mangoro, rocailles du torrents, 700 m d'alt. Février 1925', *H. Perrier de la Bâthie 17039* (B20 0071619 holo.).

*E. phanerophlebium* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 62 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Elaphoglossum poolii** *(Baker) H.Christ* in Bulletin de l'Herbier Boissier, sér. 2, 3: 32 (1903c), var. **poolii**.

*Acrostichum poolii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 493 (1891a).
Type: Madagascar, Antananarivo, *Pool 57* (K000435721, holo.).

Distribution: Madagascar.

**Elaphoglossum poolii** *(Baker) H.Christ* var. **multisquamosum** *(Bonap.) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 54 (Apr. 1960a).

*E. multisquamosum* Bonap. in Notes Ptéridologiques 1: 67, 68 (14 Jul. 1915a).
Type: 'Madagascar. Ambohimange. Bois. Forêts. Le 12 Juin 1905', *d'Alleizette 167* (P00466229, syn.); 'Madagascar. Halfy', *d'Alleizette 42* (P00466228, syn.).

Distribution: Madagascar.

**Elaphoglossum pseudovillosum** *Bonap*. in Notes Ptéridologiques 16: 131, 132 (1925a).
Type: Madagascar. 'Région floristique du Centre. Mont Tsaratanana. 1 500 mètres d'altitude. Cimes à lichens. Décembre 1912', *H. Perrier de la Bâthie 7059* (P00466226, holo.; P00466227, iso.).

Distribution: Madagascar.

**Elaphoglossum randii** *Alston & Schelpe* in Journal of South African Botany 23,3: 108, fig. 1b, c (1 Jul. 1957).
Type: "Marion Island, Stony Ridge, 02/04/1954", *R.W. Rand 3710* (BM!, holo.; BM!, BOL128072!, iso.).

Distribution: Marion Isl., Prince Edward Isl.

**Elaphoglossum ×revaughanii** *Lorence* in Fern Gazette 12,6: 342, fig. 1 (1984), putative hybrid between *E. lepervanchei* and *E. sieberi*.
Type: 'Mauritius. Mare Longue Plateau', 1973 *D.H. Lorence 14.3* (MAU15818, holo.; K000435720, MAU, MEXU, MO, P, REU, iso.).

Distribution: Mauritius.

**Elaphoglossum rhodesianum** *Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 213 (1967).
Type: "Zambia, Shiwa Ngandu, evergreen swamp forest, 5400 ft, 21/07/1938", *P.J. Greenway 5449* (K000435738!, holo.; EAH, iso.).

Distribution: DRC, Zambia.

**Elaphoglossum richardii** *(Bory ex Fée) H.Christ* in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 35 (1899c).

*Aconiopteris richardii* Bory ex Fée in Mémoires sur la famille des fougères 2: 80 (1845a).
Type: 'Habitat in sylvis ad truncos, in insula Borbonia', Bourbon. dans les forêts sur les vieux bois, *J.M.C. Richard 10* (P00466225, holo.).

*Acrostichum richardii* (Bory ex Fée) Hook., Species filicum 5,18/20: 256 (Jun. 1864b).

Distribution: Réunion.

**Elaphoglossum rufidulum** *(Willd. ex Kaulf.) C.Chr*., Index filicum: 314 (18 Nov. 1905).

*Acrostichum rufidulum* Willd. ex Kuhn, Filices africanae: 47 (Oct. 1868).
Type: "Habitat in Madagascaria", *J.B.A.P.M. Lamarck s.n*. (B-W 19511!, holo.).

*E. hirtum* (Sw.) C.Chr. var. *rufidulum* (Willd. ex Kuhn) C.Chr. in Dansk Botanisk Arkiv 7: 170 (Oct. 1932b).

*E. deckenii* (Kuhn) C.Chr. var. *rufidulum* (Willd. ex Kuhn) Tardieu in Notulae Systematicae (Paris) 15,4: 430, t. 4, figs 6–10 (1959c).

Distribution: Madagascar, Réunion.

**Elaphoglossum rwandense** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 55,1/2: 184, fig. 8 (1985a).
Type: 'Rwanda, Préf. Cyangugu, env. du lac Kivu, route Nyamasheke-Ntendezi à 10 km de Nyamasheke, 1 600 m, talus au bord de la route, épiphyte au pied d'un *Syzygium*, 27.III.1972', Bouxin 1486 (GENT, holo.; BR, FI-PS, LG, iso.).

Distribution: Rwanda.

**Elaphoglossum schizolepis** *(Baker) H.Christ* in Bulletin de l'Herbier Boissier, sér. 2, 3: 32 (1903c).

*Acrostichum schizolepis* Baker in Journal of the Linnean Society, Botany 15: 421 (1876b).

Distribution: Madagascar.

**Elaphoglossum scolopendriforme** *Tardieu* in Notulae Systematicae (Paris) 15,4: 436, t. 5, fig. 7 (1959c).
Type: Madagascar. 'Centre: Anjanaharibe', *G. Cours 3773* (P00466224, holo.; P00466223, iso.).

Distribution: Madagascar.

**Elaphoglossum ×setaceum** *Lorence* in Fern Gazette 12,6: 348, fig. 5 (1984), putative hybrid between *E. hybridum* and *E. lanatum*.
Type: 'Mauritius, Tamarind Falls Reservoir', 1973, *D.H. Lorence s.n.* (MAU15823b, holo.).

Distribution: Mauritius.

**Elaphoglossum sieberi** *(Hook. & Grev.) T.Moore*, Index filicum 2,2: 14 (1857j).

*Acrostichum sieberi* Hook. & Grev., Icones filicum 2,12: pl. 237 (Jun. 1832).
Type: Mauritius, "very near *Acr. Latif*. from W. Indies *Acr. latifolium* Sieber non Sw. *Acr. Sieberi* Ic. Fil. t. 237", *W. Bojer s.n.*, (K, lecto., p.p., left-hand specimen only), designated by Lorence (1976b: 204).

*Olfersia sieberi* (Hook. & Grev.) C.Presl, Tentamen pteridographiae: 235 (Oct. 1836).

*A. ellipticum* Fée, Mémoires sur la famille des fougères 2: 30, t. 4, fig. 2 (1845a).
Type: 'Habitat in Mauritio', *F.W. Sieber s.n*. (W, holo.).

Distribution: Madagascar, Mauritius.

**Elaphoglossum spathulatum** *(Bory) T.Moore*, Index filicum 2,2:14 (Jun. 1857j); 2,31: 366 (Aug. 1862c), var. **spathulatum**

*Acrostichum spathulatum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 363, pl. 20, fig. 1 (Sep. 1804a).
Type: 'Bourbon, Rivière St Denis', *J.B.G.M. Bory de St.-Vincent s.n*. (P00245076!, holo.).

*Olfersia spathulata* (Bory) C.Presl, Tentamen pteridographiae: 233 (Oct. 1836).

Distribution: Congo, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, South Africa, Tanzania, Zambia, Zimbabwe.

**Elaphoglossum spathulatum** *(Bory) T.Moore* var. **uluguruense** *(Reimers) Schelpe* in Journal of South African Botany 30,4: 197 (1964).

*E. uluguruense* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 12,111: 80 (1934a).
Type: Tanzania, Uluguru Mtns., *Schlieben 3931* (B, holo.; BM, BR, iso.).

Distribution: Kenya, Madagascar, Malawi, Mozambique, Tanzania, Zimbabwe.

**Elaphoglossum splendens** *(Bory ex Willd.) Brack*., United States Exploring Expedition. Filices 16: 68 (Sep.–Nov. 1854).

*Acrostichum splendens* Bory ex Willd., Species plantarum, edn 4, 5,1: 104, 105 (25–27 Jun. 1810).
Type: 'Habitat in insulae Borboniae arborum truncis', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19515!, holo.; P00466212, P00466213, iso.).

*A. splendens* Bory var. *angasijensis* Kuhn, Filices africanae: 16 (Oct. 1868).
Type: 'Ins. Comorae. In monte ignivomo insulae Angasiliae 6000–9000 ped. Majo 1864', *O. Kersten 3* (B20 0072187!, holo.).

Distribution: Madagascar, Réunion.

**Elaphoglossum stipitatum** *(Bory ex Fée) T.Moore*, Index filicum 2,2: 15 (1857j).

*Acrostichum stipitatum* Bory ex Fée, Mémoires sur la famille des fougères 2: 38, t. 4, fig. 3 (1845a).
Type: 'Habitat in insula Bourbonia ad salazias', *J.B.G.M. Bory de St.-Vincent s.n*. (P0046621, holo.).

Distribution: Réunion.

**Elaphoglossum subcinnamomeum** *(H.Christ) Hieron*. in Botanische Jahrbücher 46,3: 401 (1911).

*E. manniana* H.Christ var. *subcinnamomeum* H.Christ in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 149 (1899c).
Type: 'Kamerun S. und S.W. vom Pik und auf demselben bis 3 200 m', *P.R. Preuss 842* (B20 0072052, holo.).

Distribution: Cameroon, Kenya, Tanzania.

**Elaphoglossum subsessile** *(Baker) C.Chr*., Index filicum: 316 (18 Nov. 1905).

*Acrostichum subsessile* Baker in Journal of Botany, British and Foreign 1884: 143 (1884c), non Baker (1897: 300).
Type: Madagascar, *L. Humblot s.n*. (K?, holo.).

*A. madagascariense* Kuhn ex Baker in Annals of botany (C. König, J. Sims, eds) 5: 490 (1891a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Madagascar. "Süd-Betsiléo. Wald von Ankafina, Jan./April 1881", *J.M. Hildebrandt 4167* (B20 0071227, holo.; B20 0071228, B20 0071229, iso.).

Distribution: Madagascar.

**Elaphoglossum succisifolium** *(Thouars) T.Moore*, Index filicum 2,2: 15 (1857j), as '*succisaefolium*'.

*Acrostichum succisifolium* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 31 (Oct. 1808).
Type: Tristan da Cunha, erroneously given as 'l'Isle-de-France', *L.-M.A. du Petit-Thouars s.n*. (P!, holo.).

*Olfersia succisifolium* C.Presl, Tentamen pteridographiae: 234 (Oct. 1836).

Chromosome number: tetraploid, 2n = ± 164 (Manton & Vida 1968: 364).

Distribution: Gough Isl., Inaccessible Isl., Nightingale Isl., Tristan da Cunha.

**Elaphoglossum tomentosum** *(Bory ex Willd.) H.Christ*, Die Farnkräuter der Erde: 37 (Oct. 1897a).

*Acrostichum tomentosum* Bory ex Willd., Species plantarum, edn 4, 5,1: 101 (25–27 Jun. 1810).
Type: "B. Ile de France", *J.B.G.M. Bory de St.-Vincent s.n.* (P00466205, lecto.), designated by Rouhan & Lorence (2003: 840).

Distribution: Mauritius.

**Elaphoglossum vohimavense** *Tardieu* in Notulae Systematicae (Paris) 15,4: 436, 438, pl. 1, figs 7, 8 (1959c).
Type: Madagascar. 'Sud-Est: bassin de la Manampanihy, mont Vohimavo, au nord d'Ampasimena', *H. Humbert 20660* (P00466240, holo.; P00466241, iso.).

Distribution: Madagascar.

**Elaphoglossum welwitschii** *(Baker) C.Chr.*, Index filicum: 318 (18 Nov. 1905).

*Acrostichum welwitschii* Baker in Synopsis filicum, edn 2: 521, 522 (Oct. 1874a).
Type: 'Angola, Distr. Huíla, 3800–5500 p. alt., ad praerupta madida pr. cataractus agri Lopollensis, Maio 1860', *F.M.J. Welwitsch 187* (K000435737!, holo.).

*E. petiolatum* (Sw.) Urb. var. *angolensis* Bonap. in Notes Ptéridologiques 1: 131 (14 Jul. 1915e).
Type: 'Munhino de Huilla. Entre 1 700 et 1 740 mètres d'altitude. dans les gorges humides', *M. Bonnefoux 10* (P00466207, P00466208, P00466209, holo.).

Distribution: Angola, Malawi, Tanzania, Zimbabwe.

**Elaphoglossum zakamenense** *Tardieu* in Notulae Systematicae 15,4: 438, pl. 5, figs 4–6 (1959c).
Type: Madagascar. 'Centre: réserve no. 3 de Zakamena', *R. Decary 16547* (P00466242, holo.).

Distribution: Madagascar.

**Elaphoglossum zambesiacum** *Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 214 (1967).
Type: 'Zambia, Luwingu, 29.v.1964', *Franshawe 8708* (SRGH!, holo.).

Distribution: DRC, Zambia.

## HYPODEMATIUM

**Hypodematium** *Kunze* in Flora 16: 690 (1833).
Type: *Hypodematium onustum* Kunze, now *Hypodematium crenatum* (Forssk.) Kuhn; *Polypodium crenatum* Forssk.

**Hypodematium crenatum** *(Forssk.) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 37 (Aug.–Sep. 1879).

*Polypodium crenatum* Forssk., Flora aegyptico-arabica: CXXV, 185 (1 Oct. 1775).
Type: 'In montium Yemen ad Balghose', *P. Forsskål s.n.* (missing).

*Aspidium crenatum* (Forssk.) Kuhn, Filices africanae: 129 (Oct. 1868).

*Lastrea crenata* (Forssk.) Bedd., Supplement to the ferns of southern India and British India: 18 (1876).

*Nephrodium crenatum* (Forssk.) Baker, Flora of Mauritius and the Seychelles: 497 (2 Aug. 1877b).

*Dryopteris crenata* (Forssk.) Kuntze, Revisio generum plantarum 2: 811 (5 Nov. 1891).

*A. odoratum* Willd., Species plantarum, edn 4, 5,1: 286 (1810).
Type: Mauritius, *Bory de Saint-Vincent s.n.* (B-W19833, holo.).

*Cystopteris odorata* (Willd.) Desv. in Mémoires de la Société Linnéene de Paris 6,2: 264 (1827).

*L. odorata* (Willd.) Wawra in Oesterreichische Botanische Zeitschrift 13: 144 (1863).

*N. odoratum* (Willd.) Baker in Synopsis filicum 7: 280 (4 Oct. 1867e).

*N. hirsutum* D.Don, Prodromus florae nepalensis: 6 (1825).
Type: Nepal, "alpibus", *Wallich s.n.* (BM, holo.).

*A. eriocarpum* Wall., A numerical list of dried specimens: no. 342 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Nepalis 1821', *Wallich 342* (K, syn.).

*L. eriocarpa* Wall. ex C.Presl, Tentamen pteridographiae: 77 (Oct. 1836), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*N. eriocarpum* (Wall. ex C.Presl) Decne. in Archives du Muséum d'Histoire Naturelle 2: 185 (1841), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*A. eriocarpum* Wall. ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 344 (1858).

*H. onustum* Kunze in Flora 16: 690 (1833).
Type: 'Nepal, Ind. orientalis', *N. Wallich s.n.* (not located).

*H. rueppelianum* Kunze, Die Farrnkräuter 1,3: 41, pl. 21 (13–19 Dec. 1840).
Type: Ethiopia, "Abyssinian mountains", *Rüppell s.n.* (FR, syn.); *Schimper 358* (?LZ, syn.).

*D. fauriei* Kodama in Icones plantarum koisikavenses 2,1: 1, pl. 90 (Jan. 1914).
Type: 'Nippon: Myogisan', *sine coll. s.n.* (TI, holo.).

Distribution: Angola, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Boavista, Santiago, Fogo, Brava), Congo, DRC, Ethiopia, Kenya, Madagascar, Mozambique, Socotra, South Africa, Sudan, Zambia.

## LASTREOPSIS

**Lastreopsis** *Ching* in Bulletin of the Fan Memorial Institute of Biology 8,4: 157 (Sep. 1938a). Type: *Lastreopsis recedens* (J.Sm. ex T.Moore) Ching; *Lastrea recedens* J.Sm. ex T.Moore (now *Lastreopsis tenera* (R.Br.) Tindale; *Nephrodium tenerum* R.Br.).

*Polystichum* Roth sect. *Parapolystichum* Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 11, 45 (1873).
Type: None designated.

*Dryopteris* Adans. § *Parapolystichum* (Keyserl.) C.Chr. in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 6,1: 93 (1920a).

*Parapolystichum* (Keyserl.) Ching in Sunyatsenia 5,4: 239 (30 Oct. 1940a).

**Lastreopsis barteriana** *(Hook.) Tardieu* in Notulae Systematicae (Paris) 14,4: 343 (Dec. 1953c).

*Polypodium barterianum* Hook., Species filicum 4,15/16: 253 (1863).
Type: 'Fernando Po', *C. Barter s.n.* (K000351093!, holo.; B20 0052813! (fragm.), iso.).

*Phegopteris barteriana* (Hook.) Mett. ex Kuhn, Filices africanae: 121 (Oct. 1868).

*Dryopteris barteriana* (Hook.) C.Chr., Index filicum: 254 (2 Oct. 1905).

*Ctenitis barteriana* (Hook.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 12 (1956a).

*Nephrodium hendersonii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 323 (Aug. 1891a).
Type: 'Fernando Po', *A. Henderson s.n*. (K000351092!, holo.).

Distribution: Bioko, Cameroon, Equatorial Guinea, Nigeria.

**Lastreopsis boivinii** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 347, fig. XLII, t. 1–3 (May 1958b), as '*boivini*'.

*Nephrodium boivinii* Baker in Synopsis filicum, edn 2: 501 (Oct. 1874a), as '*Boivini*'.
Type: 'Madagascar', *L.H. Boivin s.n*. (K000351103!, holo.).

*Aspidium boivinii* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 65 (Aug.–Sep. 1879), as '*Boivini*'.

*Dryopteris boivinii* (Baker) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Ctenitis boivinii* (Baker) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 220 (1955f), as '*Boivini*'.

*N. granulosum* Baker in Journal of Botany, British and Foreign 1891: 4, 5 (1891b).
Type: Be Kilns Mountains, NW Madagascar, 12.1890, *T.J. Last s.n*. (K000351104!, K000351105!, holo.).

*D. subgranulosa* C.Chr., Index filicum: 295 (18 Nov. 1905), nom. nov., based on *Nephrodium granulosum* Baker (1891b: 4, 5), non *N. granulosum* J.Sm. (1857b: 428).

Distribution: Madagascar.

**Lastreopsis currorii** *(Mett. ex Kuhn) Tindale* in Victoria Naturalist 73,11: 184 (1957), subsp. **currorii**.

*Aspidium currorii* Mett. ex Kuhn, Filices africanae: 130 (Oct. 1868).
Type: 'Africa occidentalis tropica', *A.B. Curror s.n*. (K000351094!, holo.; B20 0054415, fragm., iso.).

*Dryopteris currorii* (Mett.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Ctenitis currorii* (Mett.) Tardieu in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*Polypodium efulense* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 299 (1897).
Type: 'Upper Guinea. Cameroon Mountains: Forest Hill, Efulen', *G.L. Bates 217* (K000351100, K000351101, holo.; BM, BR, Z000002213, iso.).

*D. efulensis* (Baker) C.Chr., Index filicum: 263 (18 Nov. 1905).

*C. efulensis* (Baker) Tardieu in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*L. efulensis* (Baker) Tardieu in Aubrév., Flore du Gabon, Ptéridophytes 8: 170, pl. XXVII (10 Jul. 1964b).

Chromosome number: n = 41 (Manton 1959: 81).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Nigeria, Tanzania, Uganda.

**Lastreopsis currorii** *(Mett. ex Kuhn) Tindale* subsp. **eglandulosa** *Tindale* in Contributions from the New South Wales National Herbarium 3,5: 284 (1965).

Type: 'Region Kisantu, Léopoldville, Moyen-Congo, Republic of the Congo, 11.1950', *P.H. Callens 2806* (BM, holo.).

Distribution: Bioko, Congo, DRC.

**Lastreopsis davalliiformis** *(Tardieu) Tardieu* in Aubrév., Flore du Gabon, Ptéridophytes 8: 165 (10 Jul. 1964b), as '*davaliaeformis*'.

*Dryopteris davalliiformis* Tardieu, Notulae Systematicae (Paris) 13,3: 167, 168 (1948a), as '*davalliaeformis*'.
Type: 'Gabon: entre N'Dagolé et Lambaréné, sur les berges éclairées d'un cours d'eau, sept. 1946', *M. Nicklès s.n*. (P00483116, holo.).

Distribution: Cameroon, Gabon.

**Lastreopsis hornei** *(Baker) Tindale* in Victoria naturalist 73,11: 184 (1957).

*Nephrodium hornei* Baker in Synopsis filicum, edn 2: 500 (Oct. 1874a).
Type: 'Seychelles', Mahé, not common, 9.1871, *J. Horne 182* (K000351106, K000351107, holo.; BM, iso.).

*Dryopteris hornei* (Baker) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

Distribution: Madagascar, Seychelles.

**Lastreopsis nigritiana** *(Baker) Tindale* in Contributions from the New South Wales National Herbarium 3,4: 245 (1963).

*Polypodium nigritianum* Baker in Synopsis filicum 8: 313 (8 Nov. 1867f), non *Aspidium nigritianum* Mett. ex Kuhn (1868: 138).
Type: Fernando Po, 2000 ft. above the sea, 1860, *G. Mann 352* (K000351097!, K000351098!, lecto.), designated by Tindale (1965: 281); (BM, isolecto.).

*Dryopteris nigritiana* (Baker) C.Chr., Index filicum: 279 (18 Nov. 1905), non Kuntze (1891: 813).

*Ctenitis pubigera* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 12 (1956a), nom. nov. for *Polypodium nigritianum* Baker (1867f: 313), non *Aspidium nigritianum* Mett. ex Kuhn (1868: 138).

*Aspidium nigritianum* Mett. ex Kuhn, Filices africanae: 138 (Oct. 1868).
Type: "Niger Expedition: Ins. Principis, 1906" *C. Barter 1906* (K000351101!, holo.; B20 0068869, fragm., iso.).

*C. nigritiana* (Mett. ex Kuhn) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 12 (1956a).

*D. tomentella* C.Chr., Index filicum: 298 (18 Nov. 1905).

*C. currorii* (Mett. ex Kuhn) Tardieu var. *tomentella* (C.Chr.) C.D.Adams & Alston in Bulletin of the British Museum (Natural History), Botany 1,6: 174 (1955).

Distribution: Bioko, Cameroon, Liberia, Nigeria.

**Lastreopsis perrieriana** *(C.Chr.) J.P.Roux* in Bothalia 34: 108 (2004b).

*Dryopteris perrieriana* C.Chr. in Notes Ptéridologiques 16: 176, 177, t. VIII (14 Apr. 1925b).
Type: "Madagascar: Forêt d'Analamazoatra, 800 m, Déc.", *H. Perrier de la Bâthie 6093* (BM!, holo.; BM000800988!, P00349499!, iso.).

Distribution: Madagascar.

**Lastreopsis pseudoperrieriana** *(Tardieu) Tardieu* in Adansonia 5,4: 497 (1965).

*Ctenitis pseudoperrieriana* Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, biologie végétale 6: 240, 242, pl. 10, figs 1–4 (1955f).
Type: Madagascar. 'Centre: forêt d'Analamazaotra', *H. Perrier de la Bâthie 6103* (P00483157, holo.; P00483158, iso.).

Distribution: Madagascar.

**Lastreopsis subsimilis** *(Hook.) Tindale* in Contributions from the New South Wales National Herbarium 3,4: 245 (1963).

*Gymnogramme subsimilis* Hook., Species filicum 5,18/20: 142, pl. 293 (Jun. 1864b).
Type: 'Fernando Po', Dec. 1959, *G. Mann 125* (K000351095!, K000351096!, holo.; B20 0068055!, B20 0068056!, iso.).

*Phegopteris subsimilis* (Hook.) Mett. ex Kuhn, Filices africanae: 123 (Oct. 1868).

*Dryopteris subsimilis* (Hook.) C.Chr., Index filicum: 296 (18 Nov. 1905).

*Ctenitis subsimilis* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*D. bicolor* Bonap. in Notes Ptéridologiques 14: 204–206 (23 Nov. 1923a).
Type: 'Gabon. Forêt du Mayombe Bayata. Maghegni. Le 23 juin 1910', *G.M.P.C. le Testu 1559* (BM, syn.); 'Gabon. De Dikondon à Moabi. Mars 1913', *H. Propéguin 74* (syn., not located); 'Gabon. Niaga à Dikondon. Forêt. Mars 1913', *H. Propéguin 74* bis (syn., not located).

Distribution: Benin, Bioko, Cameroon, Côte d'Ivoire, Gabon, Liberia, Madagascar, Nigeria.

**Lastreopsis vogelii** *(Hook.) Tindale* in Contributions from the New South Wales National Herbarium 3,4: 245 (1963).

*Polypodium vogelii* Hook., Species filicum 4,15/16: 271 (1863).
Type: 'Fernando Po', *T. Vogel 229* (K000351099!, lecto.), designated by Alston (1959b: 73); 'Fernando Po', *G. Mann 352* (K000351097, K000351098, syn.); 'Aboh, on the Quorra', *C. Barter*, in Baikie's Exp. 158 (not located).

*Phegopteris vogelii* (Hook.) Kuhn, Filices africanae: 124 (Oct. 1868).

*Dryopteris subcoriacea* C.Chr., Index filicum: 295 (18 Nov. 1905), nom. nov. for *Polypodium vogelii* Hook., non *Dryopteris vogelii* (Hook.) C.Chr. (1905: 300).
Type: As for *Polypodium vogelii* Hook.

*Ctenitis subcoriacea* (C.Chr.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 12 (1956a).

Distribution: Bioko, Cameroon, Congo, DRC, Equatorial Guinea, Nigeria, Uganda.

## MEGALASTRUM

**Megalastrum** *Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987). Type: *Megalastrum villosum* (L.) Holttum; *Polypodium villosum* L.

**Megalastrum canacae** *(Holttum) Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987).

*Ctenitis canacae* Holttum in Kew Bulletin 38,1: 128 (1983).
Type: 'Mauritius, 'Canaca', 1868', *H. Barkly s.n*. (K, holo.).

*Aspidium oppositum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 108 (Jan. 1827).
Type: 'C.B.S.', (missing).
Notes: the description of Kaulfuss is brief and inadequate for identification. Hooker (1862c: 137) described the species based on "Ins. Mauritii", *F.W. Sieber 36* (K000351133, K000351134, K000351135, holo.; B20 0059372!, B20 0059373!, B20 0059378!, B20 0059379!, P00477807, P00483109, W, iso.), and has been the basis of all subsequent names.

*Dryopteris opposita* (Kaulf. ex Spreng.) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*A. oppositum* Kaulf. ex Spreng. var. *subglandulosum* Mett. ex Kuhn, Filices africanae: 138 (Oct. 1868), nom. nud., quoad *Boivin 814*, excl. syn. *Phegopteris straminea* Fée.
Type: "Bourbon", *L.H. Boivin 814* (B20 0057758, B20 0057759, B20 0057762, syn.); "Insula Bourboniae, 1841", *C. Gaudichaud-Beaupré s.n*. (B20 0057761, syn.).

*D. mascarenarum* Urb., Symbolae antillanae 4,1: 14 (16 Sep. 1903), nom. nov. for *Aspidium oppositum* Kaulf. ex Spreng., non *Dryopteris opposita* (Vahl) Urb.

*C. mascarenarum* (Urb.) Tardieu in Notulae Systematicae (Paris) 15,1: 92 (1955d), nom. illeg. superfl., p.p. (Sieber specimen only).

*Nephrodium oppositum* sensu Hook., Species filicum 4,14: 136, 137, pl. 266 (Aug. 1862c).

*C. subglandulosa* sensu Tardieu in Notulae Systematicae (Paris) 15,1: 91 (1955d), non *Nephrodium subglandulosum* Baker (1867e: 285), nec *Ctenitis subglandulosa* (Hance) Ching (1938b: 302).

Distribution: Mauritius, Réunion.

**Megalastrum exaggeratum** *(Baker) Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987).

*Nephrodium crinitum* Desv. var. *exaggeratum* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 319 (1891a).
Type: 'Central Madagascar', *W. Pool s.n*. (K000351137!, holo.).

*Dryopteris exaggerata* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 60, pl. 16, figs 4–7 (Oct. 1932b).

*Ctenitis exaggerata* (Baker) Ching in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

Distribution: Madagascar.

**Megalastrum lanatum** *(Fée) Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987).

*Phegopteris lanata* Fée, Cinquième mémoires sur la famille des fougères: 246 (1852).
Type: 'Habitat in insula Borboniâ', *De Montbrison s.n.* (? holo.; P00483090!, iso.).

*Ctenitis lanata* (Fée) Holttum in Kew Bulletin 38,1: 129, 130 (1983).

**Megalastrum lanuginosum** *(Willd. ex Kaulf.) Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987).

*Aspidium lanuginosum* Willd. ex Kaulf., Enumeratio filicum: 244, 245 (Oct. 1824).
Type: "Habitat in insula Mauritii", *L.-M.A. du Petit-Thouars s.n*. (B-W 19808!, sheets 1 & 2, holo.; P00483107, P00477882!, ?iso.).

*Nephrodium lanuginosum* (Willd. ex Kaulf.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 262 (Jul. 1827).

*Lastrea lanuginosa* (Willd. ex Kaulf.) T.Moore, Index filicum 2,8: 87 (1858a), ?nom. nov. for *Aspidium catopteron* Kunze.

*Polystichum lanuginosum* (Willd. ex Kaulf.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 45 (1873).

*Dryopteris lanuginosa* (Willd. ex Kaulf.) C.Chr., Index filicum: 273 (18 Nov. 1905).

*Ctenitis lanuginosa* (Willd. ex Kaulf.) Copel., Genera filicum: 124 (1947).

*A. odoratum* Willd., Species plantarum, edn 4, 5: 286 (25–27 Jun. 1810).
Type: 'Habitat in rupibus insulae Mauritii', *J.B.G.M. Bory de Saint Vincent s.n.* (B-W 19833-01 0, holo.).

*N. elatum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 262 (Jul. 1827).
Type: 'Habitat in insula Mascareigne', *sine coll. s.n*. (P, holo.).

*A. catopteron* Kunze in Linnaea 10: 550 (1836).
Type: "Koratra, in sylva, 200–300 m, 1838", *J.F. Drège s.n*. (BM!, lecto.), designated by Roux (1986: 377).

*L. catoptera* (Kunze) Pappe & Rawson, Synopsis filicum Africae australis: 12 (Jan.–Jul. 1858).

*N. catopteron* (Kunze) Hook., Species filicum 4,14: 137 (Aug. 1862c), p.p.

*D. catoptera* (Kunze) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

Distribution: Bioko, Comoro Isl., Equatorial Guinea, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Réunion, São Tomé, South Africa, Tanzania, Zimbabwe.

**Megalastrum magnum** *(Baker) Holttum* in Gardens' Bulletin. Straits Settlements 39,2: 161 (1987).

*Nephrodium magnum* Baker in Journal of Botany, British and Foreign 1884: 142, 143 (1884c).
Type: Madagacar, *L. Humblot 265* (K000351140!, holo.; P00483091!, P00483092!, P00483093!, iso.).

*Dryopteris magna* (Baker) C.Chr., Index filicum: 276 (18 Nov. 1905).

*Ctenitis magna* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 344 (May 1958b).

*Polypodium baronii* Baker in Journal of the Linnean Society, Botany 22: 535 (1887c), as '*Baroni*'.
Type: Madagascar, *R. Baron 3920* (K000351138!, K000351139!, holo.).

*D. baronii* (Baker) C.Chr., Index filicum: 254 (2 Oct. 1905), as '*Baroni*'.

Distribution: Madagascar.

## NOTHOPERANEMA

**Nothoperanema** *(Tagawa) Ching* in Acta Phytotaxonomica Sinica 11,1: 25, 26 (Jan. 1966).

*Dryopteris* Adans. subgen. *Nothoperanema* Tagawa in Acta Phytotaxonomica et Geobotanica 7: 199 (1938b). Type: *Nothoperanema squamisetum* (Hook.) Ching; *Nephrodium squamisetum* Hook.

**Nothoperanema squamiseta** *(Hook.) Ching* in Acta Phytotaxonomica Sinica 11,1: 25 (Jan. 1966).

*Nephrodium squamisetum* Hook., Species filicum 4,14: 140, pl. 268 (Aug. 1862c).
Type: 'Fernando Po, Clarence Peak, alt. 4000 feet', *G. Mann 380* (K000351166!, K000351167!, holo.).

*Aspidium squamisetum* (Hook.) Kuhn, Filices africanae: 24, 142 (Oct. 1868).

*Dryopteris squamiseta* (Hook.) Kuntze Revisio generum plantarum 2: 813 (5 Nov. 1891).

*Nephrodium buchananii* Baker in Synopsis filicum, edn 2: 498, 499 (Oct. 1874a), as '*buchanani*'.
Type: 'Bourbon', *L.H. Boivin s.n.* (K?, syn.); 'Natal', *J. Buchanan 108* (K000351168!, K000351169!, syn.).

*Lastrea buchananii* (Baker) Bedd., Handbook to the ferns of British India: 255 (1883).

*D. buchananii* (Baker) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

Distribution: Bioko, Cameroon, Equatorial Guinea, Ethiopia, Kenya, Madagascar, Malawi, Réunion, Rwanda, Somalia, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

## POLYSTICHUM

**Polystichum** *Roth*, Tentamen florae germanicae 3,1,1: 31, 69, 70 (Jun.–Sep. 1799). Type: *Polystichum lonchitis* (L.) Roth; *Polypodium lonchitis* L.

*Hypopeltis* Michx., Flora boreali-americana 2: 266 (19 Mar. 1803). Type: *Hypopeltis lobulata* Bory; *Polystichum aculeatum* (L.) Roth.

*Plecosorus* Fée, Cinquième mémoires sur la famille des fougères: 150, 150 (1852). Type: *Plecosorus mexicanus* Fée, nom. superfl. for *Cheilanthes speciossisima* Kunze; *Polystichum speciosissimum* (Kunze) R.M.Tryon & A.F.Tryon.

*Sorolepidium* H.Christ in The Botanical Gazette 51: 350 (1911). Type: *Sorolepidium glaciale* (H.Christ) H.Christ; *Polystichum glaciale* H.Christ.

*Hemestemium* H.Lév., Flore du Kouy-Tchéou: 450, 496 (1914–1915), non *Hemestheum* Newman (1851: app. xxii). Type: Several *Polystichum* species are listed.

*Aetopteron* House in American Fern Journal 10,3: 88 (21 Sep. 1920), nom. nud. See Barnhart (1920: 111–112). Type: *Aetopteron aculeatum* (L.) House; *Polypodium aculeatum* L., now *Polystichum aculeatum* ( L.) Roth.

*Papuapteris* C.Chr. in Brittonia 2,4; 300 (Jun. 1937a). Type: *Papuapteris linearis* C.Chr.; *Polystichum lineare* (C.Chr.) Copel.

*Acropelta* Nakai in Bulletin of the National Science Museum, Tokyo 33: 5 (1953). Type: *Acropelta omeiensis* (C.Chr.) Nakai; *Polystichum omeiense* C.Chr.

**Polystichum aculeatum** *(L.) Roth*, Tentamen florae germanicae 3,1,1: 79 (Jun.–Sep. 1799).

*Polypodium aculeatum* L., Species plantarum 2; 1090, 1091 (1 May 1753).
Provenance: 'Habitat in Europa.' Lectotype: Herb. A. van Royen, sheet no. 908.311-72 (L), designated by Alston (1940: 163, 164).

*Aspidium aculeatum* (L.) Sw., Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 37 (1801).

*Dryopteris aculeata* (L.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Polypodium lobatum* Huds., Flora anglica: 390 (Jan.–Jun. 1762).
Type: 'Habitat in umbrosis et ad sepes. Haller, Hist. strip. Helv.: 1712 (1768); Pluk., Phytographia: 180, fig. 1 (1691); Ray, Syn. meth. strip. brit.: 121 (1690)', syn.

*A. lobatum* (Huds.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 37 (1801).

*Polystichum lobatum* (Huds.) Bastard, Essai sur la flore du département de Maine et Loire: 367 (Jul. 1809).

*D. setifera* (Forssk.) Woyn. ex Schinz & Thell. subsp. *lobata* (Huds.) Maire in Catalogue des plantes du Maroc 1: 3 (1 Aug. 1931).

Distribution: Algeria, Morocco.

**Polystichum ammifolium** *(Poir.) C.Chr*. in Catalogue des plantes de Madagascar. Pteridophyta: 31 (Feb. 1932a).

*Polypodium ammifolium* Poir. in Encyclopedie méthodique, Botanique 5: 554 (9 Jan. 1804).
Type: 'l'Ile-de France', *P. Commerson s.n.* (P-LA, lecto.), designated by Roux (2001b: 267).

*Aspidium ammifolium* (Poir.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 321 (1811).

*A. stramineum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 105 (Jan. 1827).
Type: Mauritius [erroneously given as 'C.B.S.' (Caput Bonae Spei)], *sine coll. s.n.* (not located).
Note: *F.W. Sieber 34* (K000351191!, K000351192!) has been inscribed by Hooker as '*Aspidium stramineum* Kaulf. n. sp.', and may be authentic.

*Polystichum stramineum* (Kaulf.) C.Presl, Tentamen pteridographiae: 83 (Oct. 1836).

*Hypopeltis mauritiana* Bory in Voyage aux Indes Orientales. Botanique 2,1: 67, 68 (1833).
Type: 'Les grands bois de l'île Maurice', *J.B.G.M. Bory de St.-Vincent s.n.* (not located).

*Polystichum mauritianum* (Bory) Fée, Cinquième mémoires sur la famille des fougères: 278 (1852).

*Polystichum schizolobium* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 99 (1857b). Type: 'Bourbon', *De Montbrison s.n.* (not located).

*A. schizolobium* (Fée) Kuhn, Filices africanae: 141 (Oct. 1868).

*Polystichum vestitum* Sieber, Flora Mauritiana, exsiccatae suppl. n. 48, nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3], non *Aspidium vestitum* (G.Forst.) Sw. (1801: 37).

*Polystichum sieberianum* C.Presl, Tentamen pteridographiae: 83 (Oct. 1836), nom. nov. for *Aspidium vestitum* Sieber, nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar, Mauritius, Réunion.

**Polystichum crinulosum** *(Desv.) J.P.Roux* in Novon 6,2: 202 (1996).

*Aspidium crinulosum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 249 (Jul. 1827).
Type: "Habitat in insula Mauritii", *sine coll. s.n.* (P00411954!, lecto.), designated by Roux (1996: 202); (B20 0096929, isolecto.).
Note: locality given as 'Habitat in montosis. C. Bonae spei', but this appears to be incorrect.

Distribution: Mauritius.

**Polystichum dracomontanum** *Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 145 (2 Apr. 1982).
Type: "Natal, Bergville Division, on banks above stream in side kloof west of main kloof, shortly above the Singati Cave (E. of Montaux-Sources), in unburnt sparse bush or small trees or in the open, ± 6000 ft", *E. Esterhuysen 35646* (BOL!, holo.; B20 0078255!, BOL!, C, GH, K000351194!, M, MO, NU!, P00483175!, PRE0606839-1!, PRE0606839-2!, S, iso.).

Distribution: Lesotho, South Africa.

**Polystichum incongruum** *J.P.Roux* in Botanical Journal of the Linnean Society 125,1: 36 (6 Oct. 1997b).
Type: South Africa, 3320 CD (Montagu): "Swellendam, Marloth Nature Reserve, Koloniesbos. Dry east-facing slope above stream, in scree among rocks, 21 May 1991", *J.P. Roux 2377* (NBG0149773-1!, NBG0149773-2!, NBG0149773-3!, NBG0149773-4!, holo.).

Chromosome number: sexual tetraploid, n = 82; 2n = 164 (Roux 1998: 55).

Distribution: South Africa.

**Polystichum kalambatitrense** *Tardieu* in Notulae Systematicae (Paris) 15,2: 165, fig. 1, t. 1–4 (Apr. 1956b).
Type: 'Madagascar, massif du Kalambatitra, mont Analasitendrika, 1 650–1 800 m', *H. Humbert 11914* (P00483176!, holo.; P00483177, P00483178, iso.).

Distribution: Madagascar.

**Polystichum kilimanjaricum** *Pic.Serm.* in Webbia 27,2: 445, 449 figs 19–21 [1972] (28 Feb. 1973a).
Type: 'Tanzania: Kilimanjaro, presso la Bismarck's Hut, terrestre, nel sottobosco rado nella parte più alta della foresta umida montana a *Podocarpus milanjianus*, *Hagenia abyssinica* ed *Ilex mitis*, m. 2 850 circa, 8.VII.1956', *R.E.G. Pichi Sermolli 5171* (FI-PS 20640, holo; FI-PS 25150!, K000351184!, K000351185!, iso.).

Distribution: Tanzania.

**Polystichum luctuosum** *(Kunze) T.Moore*, Index filicum 2,8: 95 (1858a).

*Aspidium luctuosum* Kunze in Linnaea 10: 548 (1836).
Type: 'In monte Katriviersberg in sylvis', *C.F. Ecklon s.n.* (LZ†, syn.); 'ad fontes fl. Katrivier prope Philipstown, in sylvis montium', *C.F. Ecklon s.n.* (LZ†, syn.).

*P. lobatum* (Huds.) Bastard var. *luctuosum* (Kunze) H.Christ in Bericht der Schweizerischen Botanischen Gesellschaft 3: 34 (1893).

*A. tsus-simense* Hook., Species filicum 4,13: 16, pl. 220 (Jan.–Mar. 1862b).
Type: 'Island of Tsus Sima, in the Straits of Corea', *C. Wilford s.n.* (K, holo., 2 sheets.).

*P. tsus-simense* (Hook.) J.Sm., Historia filicum: 219 (Oct.–Dec. 1875).

Chromosome number: apogamous triploid, 2n = 123 (Roux 1998: 56).

Distribution: Lesotho, Madagascar, Réunion, South Africa, Swaziland, Zimbabwe.

**Polystichum macleae** *(Baker) Diels* in Die natürlichen Pflanzenfamilien 1,4: 190 (Aug. 1899b), as '*macleanii*'.

*Aspidium macleae* Baker in Hooker's Icones Plantarum 17,2: pl. 1654 (1886d), as '*macleaii*'.
Type: 'South Africa, in convallibus humidis—Drakensbergen prope 'Pilgrim's Rest Gold Fields'', *J.H. McLea 34* sub *H. Bolus 3030* (K000351195!, K000351196!, K000351197!, K000351198!, lecto.), designated by Schelpe & Anthony (1986: 253); (BOL128031!, SAM0024522-1, SAM0024522-2!, iso.).

Chromosome number: sexual tetraploid: n = 82; 2n = 164 (Roux 1998: 56).

Distribution: South Africa, Swaziland.

**Polystichum maevaranense** *Tardieu* in Notulae Systematicae (Paris) 15,2: 166, fig. 1, t. 5–9 (Apr. 1956b).
Type: 'Madagascar, Centre-Nord: montagnes au nord de Mangindrano (haute Maevarano) jusqu'au sommet d'Ambohimirahavavy (partage des eaux Mahavavy-Androrange), 1900 m', *H. Humbert 25019* (P00483180!, holo.; L0063403!, P00477875, P00483181, P00483182, iso.).

Distribution: Madagascar.

**Polystichum magnificum** *F.Ballard* in Kew Bulletin 1957,1: 48, fig. 1 (28 May 1957a).
Type: "Uganda, Mount Elgon, in the crater (alpine region) in a small sheltered cleft on the ridge north of Maji ya moto, 3 750 m", *O. Hedberg 965* (K000351186!, K000351187!, K00351188!, holo.; K000351189!, iso.).

Distribution: Ethiopia, Kenya, Uganda.

**Polystichum marionense** *Alston & Schelpe* in Journal of South African Botany 23,3: 106, fig. 1a, pl. 34 (1 Jul. 1957).
Type: 'Marion Island, Dec. 1873', *H.N. Moseley s.n.* (BM!, holo.).

*Aspidium mohrioides* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 195 [1884] (1885b).

Distribution: Crozet Isl., Marion Isl., Prince Edward Isl.

**Polystichum monticola** *N.C.Anthony & Schelpe* in Bothalia 15: 554 (1985).
Type: "Cape Peninsula, Table Mountain, Dark Gorge, below saddle SE side, sheltered gully, dry in summer, on steep rocky slope", *E. Esterhuysen 26685* (BOL128045!, BOL128046!, BOL128047!, BOL128048!, holo; B20 0078281, C, CHR, G, GH, K, M, MO, NBG0124177-0!, NU, P, PR, PRE0616549!, PRE0635692, PRE0665718, iso.).

Chromosome number: apogamous hexaploid, 2n = 246 (Roux 1998: 56).

Distribution: Lesotho, South Africa, Zimbabwe.

**Polystichum pauciaculeatum** *Bonap.* in Notes Ptéridologiques 7: 206 (14 Oct. 1918a).
Type: Madagascar, Mandraka, *C. d'Alleizette 30* (P00483185!, holo.; P00483184, iso.).

*P. coursii* Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 42 (1956h).
Type: Madagascar, Bemainty à Androndramanitra, *G. Cours 4225* (P00483186!, holo.; P00483187, P00483188, iso.).

Distribution: Madagascar.

**Polystichum pungens** *(Kaulf.) C.Presl,* Tentamen pteridographiae: 83 (Oct. 1836).

*Aspidium pungens* Kaulf., Enumeratio filicum: 242 (Oct. 1824).
Type: 'Habitat in Promentorio b. spei', *L.A. von Chamisso s.n.* (LE, holo.).

*Dryopteris pungens* (Kaulf.) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

Chromosome number: sexual octoploid, n = 164, 2n = 328 (Roux 1998: 56, 57).

Distribution: South Africa, Swaziland.

**Polystichum ×saltum** *J.P.Roux* in Botanical Journal of the Linnean Society 124,4: 376, fig. 1 (1997a).
Type: 'South Africa: KwaZulu/Natal. 2828 (Bethlehem): Royal Natal National Park, Gudu Forest, near Gudu waterfall, ± 1 800 m (-DB)', *J.P. Roux 2510b* (NBG0197299-0!, holo.).

Chromosome number: sterile tetraploid, n = abnormal; 2n = 164 (Roux 1997a: 379).

Distribution: South Africa.

**Polystichum setiferum** *(Forssk.) T.Moore ex Woyn.* in Mitteilungen des Naturwissenschaftlichen Vereiness für Steiermark 49: 181 (1913).

*Polypodium setiferum* Forssk., Flora aegyptico-arabica: 185 (1 Oct. 1775).
Type: 'Ad Dardanellos' [Turkey, Dardanelles], *P. Forsskål 814* (C!, lecto.), designated by Hepper & Friis (1994: 292).

*Dryopteris setifera* (Forssk.) Woyn. ex Schinz & Thell., Vierteljahrsshrift der Naturforschenden Gesellschaft in Zürich 60: 340 (1915).

*Aspidium angulare* Kit. ex Willd., Species plantarum, edn 4, 5,1: 257 (25–27 Jun. 1810).
Type: "Habitat in Hungaria", *P. Kitaibel s.n.* (B-W 19792!, sheet 2, holo.).

*Polystichum angulare* (Kit. ex Willd.) C.Presl, Tentamen pteridographiae: 83 (Oct. 1836).

*A. lobatum* (Huds.) Sw. var. *angulare* (Kit. ex Willd.) Mett., Filices horti botanici lipsiensis: 88 (May–Jun. 1856a).

*A. aculeatum* (L.) Kuntze subsp. *angulare* (Kit. ex Willd.) Asch. in Asch. & Graebn., Synopsis der mitteleuropäischen Flora 1,1: 39 (1 May 1896a).

*D. aculeata* (L.) Kuntze subsp. *angularis* (Kit. ex Willd.) Schinz & Thell. in Flora der Schweiz, edn 3, 1: 7 (1909).

*Polystichum aculeatum* (L.) Roth subsp. *angulare* (Kit. ex Willd.) Vollm., Flora von Bayern: 9 (1 Feb.–15 May 1914).

*D. setifera* (Forssk.) Woyn. ex Schinz & Thell. subsp. *angularis* (Kit. ex Willd.) Maire in Catalogue des plantes du Maroc 1: 3 (1 Aug. 1931).

*A. hastulatum* Ten. in Atti del Real Istituto d'Incoggimento alle Scienze Naturali di Napoli 5: 149, t. 4, fig. 7A & 7b (1832).
Type: In nostri regni nemoribus, et abunde in vallibus circa Neopolim, *S. Rocco, Ponti Rossi & Camaldoli s.n.* (not located).

Distribution: Algeria, Morocco, Tunisia.

**Polystichum sinense** *(H.Christ) H.Christ* in Bulletin de la Société Botanique de France 52, Mémoires: 30 (May 1905b).
Note: in making this new combination several more collections were cited by Christ: 'Sutchuen: Tongolo', *Soulié 331* (P00633223) and *Soulié 382* (not located); 'Yunnan: audessus du col de Koua-la-po (Hokin), 3 500 mètres', *Delavay 2172,* alias *2173* (P00633220, P00633221, P00633222); 'col Yen-tzé-hay, route de Lan-kong, 3 200 mètres' *Delavay 1723* (P00633225, P00633226), mont Tsong-chan, près Tali', *Delavay 1161* (not located). A type label is attached to sheet P00633220 and may serve as lectotype of *P. sinense*.

*Aspidium prescottianum* Hook. var. *sinense* H.Christ in Bollettino della Società Botanica Italiana 10: 289, 290 (1901c).
Type: 'In regione alpina montium Shen-si septentr. Nova loca sunt: Zu-lu, cot 1898. In monte Ki-fu-san, sept. 1899. In alto monte Thae-pei-san, aug. 1899. In Occidente montis Ngo-san, aug. 1899. In cacumine Liu-sin-san prope Ngo-san, aug. 1899. In alto monte Huan-tou-san, jul. 1899, l.J. Giraldi. In monte Miao-wang-san distr. Pao-ki-scen, jul. 1899, l.U. Scallan'.
Note: none of the collections listed above could be located.

*P. lobatum* (Huds.) Bastard var. *ruwensoriense* Pirotta in Savoia, Il Ruwensori, parte scientifica 1: 478 (1909).
Type: Ruwenzori. 'Nella foresta, scendendo da Kichuchu a Nakitava, luglio 1906', *Roccatori et Cavalli-Molinelli s.n.* (TO, holo.).

*P. fuscopaleaceum* Alston var. *ruwensoriense* (Pirotta) Pic. Serm. in Webbia 32,1: 90 (1977c).

*P. wilsonii* H.Christ in The Botanical Gazette 51: 353 (1911).
Type: China, Szechuan Province, Mupin, woodlands, 4000–6000 ft, 'Woodlands, Mupin, 4000–6000 ft., August 1908', *E.H. Wilson 2614* (BM!, holo.).

*P. aculeatum* (L.) Roth var. *mildbraedii* Brause in Botanische Jahrbücher 53: 379, 380 (1915).
Type: 'Westafrika: Fernando Poo, Nordseite des Pics Sta. Isabel oberhalb Basilé, Grasflur-Region des Gipfels mit viel *Ericinella*, zwischen Gras, ± 2 700 m. ü. M., 16 Nov. 1911', *G.W.J. Mildbraed 7180* (B20 0096768, holo.).

*P. aculeatum* (L.) Roth var. *rubescens* Bonap. in Notes Ptéridologiques 14: 214 (23 Nov. 1923a).
Type: Tanzania. 'Kilimanjaro, région du Sud-Est. Zône supérieure des forêts, 2760 mètres d'altitude. Octobre 1908', *C. Alluaud 48* (P00483559!, holo.; P00483196!, P00483197!, iso.).

*P. aculeatum* (L.) Roth var. *stenophyllon* Bonap. in Notes Ptéridologiques 14: 215 (23 Nov. 1923a).
Type: Kenya. 'Mont Kénya, versant Ouest. Forêt inférieure, 2 400 mètres d'altitude. Le 8 fèvrier 1912', *C. Alluaud 241* (P!, holo.).

*P. fuscopaleaceum* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 22 (1956a).
Type: 'British Cameroon, Victoria District, Cameroon Mountain, SW of hut 2, in gully woodland, 9100 ft', *R.W.J. Keay FHI 28602* (BM!, holo.).

*P. setiferum* (Forssk.) T.Moore ex Woyn. var. *fuscopaleaceum* (Alston) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 216 (1967).

*P. alticola* Schelpe & N.C.Anthony in Contributions from the Bolus Herbarium 10: 144 (2 Apr. 1982).
Type: "Ladismith Distr., Swartberg, Toverkop, steep rocky slopes and ledges, S-aspect, 6500 ft, 16.12.1956", *E. Esterhuysen 26699* (BOL128044!, holo; C, G, GH, K000351193!, M, MO, NBG0124180-0!, P00483191, PRE0616551!, iso.).

Chromosome number: sexual tetraploid, n = 82; 2n = 164 (Roux 1998: 57).

Distribution: Bioko, Cameroon, DRC, Ethiopia, Grande Comore, Kenya, Lesotho, Réunion, South Africa, Tanzania, Uganda, Zimbabwe.

See Plate 6B.

**Polystichum transkeiense** *W.Jacobsen* in Journal of South African Botany 44,2: 169 (1978).
Type: "South Africa, Transkei, Port St Johns, near road to Second Beach, deep shade in forest, 200 ft, 4.6.1971", *W.B.G. Jacobsen 4301* (PRE0514220!, holo.).

Chromosome number: sexual tetraploid, 2n = 164 (Roux 1998: 57).

Distribution: South Africa, Swaziland.

**Polystichum transvaalense** *N.C.Anthony* in N.C.Anthony & Schelpe, Contributions from the Bolus Herbarium 10: 146 (2 Apr. 1982).
Type: "Transvaal, Haenertzburg, Woodbush Forest Reserve, 14-2-80", *G.J. Bredenkamp & D.R.J. van Vuuren 450* (BOL128032!, BOL128037!, BOL128038!, holo.; PRE0616552!, iso.).

Chromosome number: sexual tetraploid, 2n = 164 (Roux 1998: 57).

Distribution: Bioko, Cameroon, DRC, Eritrea, Ethiopia, Kenya, Lesotho, Malawi, Mozambique, Rwanda, South Africa, Sudan Tanzania, Uganda, Zambia, Zimbabwe.

**Polystichum tsaratananense** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7: 44 (1956h).
Type: 'Madagascar, massif du Tsaratanana, montagnes entre le haut Sambirano et le haut Maivarano (entre Mangindrano et Ampanompia), 1 400–1 800 m. Forêt ombrophile sur latérite de gneiss', *H. Humbert 18144* (P00483189!, holo.).

Distribution: Madagascar.

**Polystichum volkensii** *(Hieron.) C.Chr.*, Index filicum: 97 (1 Jul. 1905).

*Aspidium volkensii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 86 (Jun. 1895).
Type: "Tanzania, an der oberen Grenze des Waldes über Kiboscho, 3 000 m", *G.L.A. Volkens 1520* (B20 0051630!, holo.).

*P. barbatum* C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 178, 179 (1924).
Type: "Kenya, Mt. Aberdare, pr. Kinangop, regio *Hagenia abyssinica*, ± 3 300 m", *R.E. Fries & T.C.E. Fries 3735* (K000351190!, holo.; B20 009716!, iso.).

Distribution: Kenya, Tanzania.

**Polystichum zambesiacum** *Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 215 (1967).
Type: "Rhodesia, Umtali District, Henkels Nek, Stapleford", *E.A.C.L.E. Schelpe 5751* (BOL!, holo.; BOL!, iso.).

Distribution: Malawi, Mozambique, Tanzania, Zimbabwe.

## RUMOHRA

**Rumohra** *Raddi*, Opuscoli scientifici 3: 290, t. 12, fig. 1 (1819). Type: *Rumohra aspidioides* Raddi; now *R. adiantiformis* (G.Forst.) Ching; *Polypodium adiantiforme* G.Forst.

**Rumohra adiantiformis** *(G.Forst.) Ching* in Sinensia 5,1/2: 70 (1934a).

*Polypodium adiantiforme* G.Forst., Florulae insularum australium prodromus: 82 (Oct.–Nov. 1786b).
Type: New Zealand, *G. Forster s.n.* (BM!, holo.; UPS, iso.).

*Polystichum adiantiforme* (G.Forst.) J.Sm., Historia filicum: 220 (Oct.–Dec. 1875).

*Dryopteris adiantiformis* (G.Forst.) Kuntze, Revisio generum plantarum 2: 378 (5 Nov. 1891).

*Polypodium coriaceum* Sw., Nova genera & species plantarum. Prodromus: 133 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n.* (UPS-Thunb 24647, iso.).

*Aspidium coriaceum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 40 (1801).

*Polypodium politum* Poir. in Encyclopedie méthodique, Botanique 5: 553, 554 (9 Jan. 1804).
Type: 'l'Ile-de-France', *P. Commerson s.n.* (P-LA, holo.).

*Polypodium calyptratum* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 33 (Oct. 1808).
Type: Tristan da Cunha, *L.-M.A. du Petit-Thouars s.n.* (P00483321!, holo.; P00483322!, iso.).

*A. capense* Willd., Species plantarum, edn 4, 5,1: 267 (25–27 Jun. 1810), non Sw. (1801: 42).
Type: "Habitat ad Cap. b. spei", *sine coll. s.n.* (B-W 19803.1!, holo.).

*R. aspidioides* Raddi, Opuscoli scientifici 3: 290, t. 12 (1819).
Type: unknown to current author.

*A. clypeolarium* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 249, 250 (Jul. 1827).
Type: 'Habitat in insula Borbonia et Mauritii', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483323, holo.).

*Polypodium thomassetii* C.H.Wright in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1906: 252 (1906b).
Type: 'Seychelles Islands. Mahé', *H.P. Thomasset 93* (K000435776, holo.).

*D. thomassetii* (C.H.Wright) C.Chr., Index filicum. Supplementum 1906–1912: 40 (20 Dec. 1913a).

Chromosome number: diploid, 2n = 82 (Manton & Vida 1968: 364).

Distribution: Madagascar, South Africa, Zimbabwe.

See Plate 6C.

**Rumohra capuronii** *Tardieu* in Notulae Systematicae (Paris) 15,2: 174, pl. 4, figs 1–5 (Apr. 1956c).
Type: 'Massif du Marivorahona, au Sud-Ouest de Manambato, 1 700–2 000 m', *H. Humbert & R. Capuron 25693* (P00483324!, holo.; P00483325!, P00483326!, iso.).

Distribution: Madagascar.

**Rumohra glandulosa** *Tardieu* in Notulae Systematicae (Paris) 15,2: 172, 174, pl. 2, figs 7–10 (Apr. 1956c).
Type: 'Restes de forêt, mont Tsitondroina', *Herb. jard. Bot. Tananarive 4744* (P00483327!, holo.; P00483328!, P00483329, iso.).

Distribution: Madagascar.

**Rumohra humbertii** *Tardieu* in Notulae Systematicae (Paris) 15,2: 170, 172, fig. 2, t. 1–6 (Apr. 1956c).
Type: Madagascar. 'Centre-Sud: massif du Kalambatitra, mont Analatsitendrika', *H. Humbert 11925* (P00483330!, holo.; P00483331!, P00483332!, iso.).

Distribution: Madagascar.

**Rumohra lokohensis** *Tardieu* in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 242, pl. 6, figs 4–7 (1955f).
Type: Madagascar. 'Vallée de la Lokoho, mont Ambatosoratra', *H. Humbert et R. Capuron 22914* (P00483333!, holo.; P00483334!, P00483335!, iso.).

Distribution: Madagascar.

**Rumohra madagascarica** *(Bonap.) Tardieu* in Notulae Systematicae (Paris) 15,2: 172, pl. 3, figs 6–9 (Apr. 1956c).

*Polystichum adiantiforme* (G.Forst.) J.Sm. var. *madagascarica* Bonap. in Notes Ptéridologiques 5: 58, 59 (10 Dec. 1917d).
Type: Madagascar. 'Régions floristique de l'Est et du Centre. Forêt d'Analamazoatra, 800 mètres d'altitude. Épiphyte. Décembre', *H. Perrier de la Bâthie 6148* (P00483336!, holo.; P00483337!, P00483338!, iso.).

Distribution: Madagascar.

## LINDSAEACEAE

**Lindsaeaceae** *C.Presl* in Schomburgk, Reisen in British-Guiana 2: 883 (12–15 Jul. 1848). Type: *Lindsaea* Dryand. ex Sm.

*Lindsaeaceae* Pic. Serm. tr. *Lindsaeeae* Hook., Species filicum 1,4: 202 (1 Jan. 1846).

*Dennstaedtiaceae* Pic.Serm. subfam. *Lindsaeoideae* (Pic.Serm.) Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 155 (1975).

*Pteridaceae* Rchb. subfam. *Lindsaeoideae* (C.Chr.) Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), as '*Lindosayoideae*', nom. nud. [McNeill *et al.* (2006) Art. 41.1].

*Polypodiaceae* Bercht. & J.Presl subfam. *Lindsaeoideae* C.Chr. in Manual of pteridology: 535 (3 Apr. 1938), as '*Lindsayoideae*', nom. nud. [McNeill *et al.* (2006) Art. 36.1].

*Lonchitidaceae* Doweld, New syllabus of plant families: 353 (May 2006). Type: *Lonchitis* L.

## LINDSAEA

**Lindsaea** *Dryand. ex Sm*. in Mémoires de l'Academie Royale des Sciences de Turin 5: 413, fig. 4 (1793). Type: *Lindsaea trapeziformis* Dryand. (now *Lindsaea lancea* (L.) Bedd.; *Adiantum lancea* L.).

*Schizoloma* Gaudich. in Annales des Sciences Naturelles 3: 507 (1824). Type: *Schizoloma billardieri* Gaudich., now *Lindsaea ensifolia* Sw.

*Lindsaea* Dryand. ex Sm. subgen. *Schizoloma* (Gaudich.) Hook., Species filicum 1,4: 219 (1846).

*Lindsaea* Dryand. ex Sm. sect. *Schizoloma* (Gaudich.) K.U.Kramer in Acta Botanica Neerlandica 15,3: 571 (1967).

*Odontoloma* J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 415 (1841). Type: *Odontoloma boryana* (C.Presl) J.Sm.; *Davallia boryana* C.Presl, now *Lindsaea repens* (Bory) Thwaites.

*Davallia* Sm. subgen. *Odontoloma* Hook., Species filicum 1,3: 174 (1845), non *Odontoloma* J.Sm. (1841: 415). Type: as for *Odontoloma* J.Sm.

*Lindsaea* Dryand. ex Sm. subgen. *Odontoloma* (Hook.) K.U.Kramer in Bulletin du Jardin Botanique National de Belgique 42,3: 341 (30 Sep. 1972a).

*Lindsaea* Dryand. ex Sm. subgen. *Odontoloma* (Hook.) K.U. Kramer sect. *Odontoloma* in Blumea 15,2: 561 [1967] (1968).

*Sambirania* Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 34 (1956g). Type: *Sambirania plicata* (Baker) Tardieu; *Lindsaea plicata* Baker.

*Lindsaea* Dryand. ex Sm. sect. *Sambirania* (Tardieu) K.U.Kramer in Bulletin du Jardin Botanique National de Belgique 42,3: 334 (30 Sep. 1972a).

*Humblotiella* Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 38 (1956g). Type: *Humblotiella odontolabia* (Baker) Tardieu; *Lindsaea odontolabia* (Baker) K.U.Kramer.

*Lindsaea* Dryand. ex Sm. subgen. *Odontoloma* (Hook.) K.U.Kramer sect. *Humblotiella* (Tardieu) K.U.Kramer in Bulletin du Jardin Botanique National de Belgique 42,3: 342 (30 Sep. 1972a). Type: *Lindsaea odontolabia* (Baker) K.U.Kramer; *Davallia odontolabia* Baker.

*Lindsaea* Dryand. ex Sm. subgen. *Lindsaea* sect. *Temnolindsaea* K.U.Kramer in Acta botanica Neerlandica 6,2: 176 (1957). Type: *Lindsaea klotzschiana* Moritz.

*Schizolegnia* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 23, 24 (1956a). Type: *Schizolegnia ensifolia* (Sw.) Alston; *Lindsaya ensifolium* Sw.

*Lindsaea* Dryand. ex Sm. subgen. *Odontoloma* (Hook.) K.U.Kramer sect. *Lemurogeton* K.U.Kramer in Bulletin du Jardin Botanique National de Belgique 42,3: 336 (30 Sep. 1972a). Type: *Lindsaea goudotiana* (Kunze) Mett. ex Kuhn; *Davallia goudotiana* Kunze.

*Schizoloma* Gaudich. in Annales des Sciences Naturelles 3: 507 (1824). Type: *Schizoloma cordatum* Gaudich.

*Lindsaea* Dryand. ex Sm. subgen. *Schizoloma* (Gaudich.) Hook., Species filicum 1,4: 219 (1 Jan. 1846).

*Lindsaea* Dryand. ex Sm. subgen. *Lindsaea* sect. *Schizoloma* (Gaudich.) K.U.Kramer in Acta Botanica Neerlandica 15,3: 571 (1967).

*Lindsaea* Dryand. ex Sm. subgen. *Lindsaea* sect. *Osmolindsaea* K.U.Kramer in Blumea 15,2: 560 [1967] (1968). Type: *Lindsaea odorata* Roxb.

**Lindsaea blotiana** *K.U.Kramer* in Bulletin du Jardin Botanique National de Belgique 42,3: 322, fig. 2 (30 Sep. 1972a).
Type: 'Madagascar, Andapa Distr., Marojejy Massif', *H. Humbert & R. Capuron 22164* (P00482731!, holo.).

*L. javanensis* auct. non Blume (1828: 219).

*L. tenera* Dryand. var. *gigantea* sensu Tardieu in Gardens' Bulletin. Straits Settlements 5,3/6: 65 (1930), non *L. tenera* var. *gigantea* Holttum (1930: 65).

*Schizolegnia javanensis* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 34 (May 1958b), non (Blume) Alston (1956a: 24).

Distribution: Madagascar.

**Lindsaea coursii** *(Tardieu) K.U.Kramer* in Bulletin du Jardin Botanique National de Belgique 42,3: 324 (30 Sep. 1972a).

*Schizoloma coursii* Tardieu in Notulae Systematicae (Paris) 15,2: 180, 182, fig. 1, t. 1–5 (Apr. 1956e).
Type: Madagascar. 'Epiphyte sur fougère arborescente, vers 1 500 m, descente du Marojejy', *G. Cours 3592* (P00482723!, holo.; P00482724!, iso.).

*Schizolegnia coursii* (Tardieu) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 37, fig. 4, t. 1–5 (May 1958b).

*Adiantum cultratum* Willd., Phytographia: 14, pl. 10, fig. 2 (Sep. 1794).
Type: 'Habitat in Malabaria', *H. Klein s.n.* (not located).

*L. apiculata* Kunze, Die Farrnkräuter 1,9: 206, pl. 85, fig. 2 (22–24 Jun. 1846a).
Type: unknown to current author.

*Davallia brachypoda* Baker in Synopsis filicum 10: 468 (Apr. 1868b).
Type: 'Banks of the Gilbert, North Australia', *R. Daintree s.n*. (K?, holo.).

Distribution: Madagascar.

**Lindsaea decaryana** *(C.Chr.) K.U.Kramer* in Bulletin du Jardin Botanique National de Belgique 42,3: 335 (30 Sep. 1972a).

*Schizoloma decaryanum* C.Chr. in Dansk Botanisk Arkiv 7: 79, pl. 28, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Maromandia, Andranosamontana, rochers humides, 28 Févier 1923', *R. Decary 1495* (P00482725!, P00482726!, holo.).

*Sambirania decaryana* (C.Chr.) Tardieu in American Fern Journal 48,1: 33 (17 Apr. 1958a).

Distribution: Madagascar.

**Lindsaea ensifolia** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 77 (1801).
Type: 'Ins. Mauritii', *sine coll. s.n*. (S, holo.).

*Schizoloma ensifolia* (Sw.) J.Sm., Journal of Botany (W.J. Hooker, ed.) 3,24: 414 (1841).

*Schizolegnia ensifolia* (Sw.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 24 (1956a).

*L. erecta* Mirb. in Histoire naturelle des végétaux, classés par familles 5: 126 (21 Nov. 1802c), non (Brack.) Hook. ex Baker (1867b: 113).
Type: 'Réunion', *sine coll. s.n*. (not located).

*Pteris stricta* Poir. in Encyclopedie méthodique, Botanique 5: 713 (9 Jan. 1804).
Type: 'l'Ile-de-France', *P. Commerson s.n*. (P, holo.; BM, E, L, iso.).

*L. lanceolata* Labill., Novae Hollandiae plantarum specimen 2,15: 98, 99, t. 248, fig. 1 (Feb. 1806).
Type: 'Habitat in capte Van-Diemen', *Labillardière s.n*. (?P, holo.).

*L. pteroides* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 312 (Jul. 1827).
Type: As for *Pteris stricta* Poir.

*L. membranacea* Kunze in Linnaea 18: 121 (1844b), as '*Lindsaya*'.
Type: 'Ad pedem arborum excelsiorum prope Ogle's-bosh, portus Natalensis, Sepbr 1841', *W. Gueinzius s.n*. (B20 0130207, B20 0132008, B20 0130209, BM, BR, HBG, K000351032!, L0051810, P, W!, iso.).

*L. griffithiana* Hook., Species filicum 1,4: 219, pl. 68 (1 Jan. 1846).
Type: 'Mergui, East Indies', *W. Griffith s.n*. (not located).

*L. pentaphylla* Hook., Species filicum 1,4: 219, 220, pl. 67 (1 Jan. 1846).
Type: 'New Holland', *B. Bynoe s.n*. (not located).

*Schizoloma pentaphyllum* (Hook.) Fée, Cinquième mémoires sur la famille des fougères: 108 (1852).

*Schizoloma agatii* Brack., United States Exploring Expedition. Filices 16: 216, t. 30, fig. 1 (Sep.–Nov. 1854).
Type: Fiji, *U.S. Expl. Exp. s.n*. (US, holo.; K, iso.).

Distribution: Cameroon, Gabon, Ghana, Guinea, Madagascar, Mauritius, Mozambique, Nigeria, Pemba, Réunion, Seychelles (Mahé), South Africa, Tanzania, Zimbabwe.

**Lindsaea flabellifolia** *(Baker) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 62 (Aug.–Sep. 1879).

*Davallia flabellifolia* Baker in Journal of the Linnean Society, Botany 15: 414 (1876b).
Type: Madagascar, *W. Pool s.n*. (K000351014!, holo.).

*Odontosoria flabellifolia* (Baker) C.Chr., Index filicum: 210 (2 Oct. 1905), 465 (1 Apr. 1906).

*Sphenomeris flabellifolia* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 78, pl. 27, figs 7, 8 (Oct. 1932b).

*L. madagascariensis* Baker var. *intermedia* Baker in Journal of the Linnean Society, Botany 16: 198 (1877a).
Type: "Madagascar, 2/77", *H. Gilpin s.n*. (K000351021, holo.).

*Schizolegnia orbiculata* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 34 (1958b), non (Lam.) Alston (1956a: 24).

Distribution: Madagascar.

**Lindsaea goudotiana** *(Kunze) Mett. ex Kuhn*, Filices africanae: 68 (Oct. 1868).

*Davallia goudotiana* Kunze, Analecta pteridographica: 35, pl. 22, fig. 2 (27 Aug.–2 Sep. 1837), non Hook. (1845: pl. 50C).
Type: Madagascar, *J. Goudot s.n*. (P00482732!, P00482733!, iso.).

*Stenoloma goudotianum* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 330 (1852).

*Odontoloma goudotianum* (Kunze) Mett., Filices horti botanici lipsiensis: 104 (May–Jun. 1856a).

*Acrophorus goudotianus* (Kunze) T.Moore, Index filicum 2,1: 2 (1857i).

*Sphenomeris goudotiana* (Kunze) Tardieu in American Fern Journal 48,1: 34 (17 Apr. 1958a).

Distribution: Madagascar.

**Lindsaea grandiareolata** *(Bonap.) K.U.Kramer* in Bulletin du Jardin Botanique National de Belgique 42,3: 330 (30 Sep. 1972a).

*Schizoloma grandiareolatum* Bonap. in Notes Ptéridologiques 16: 50, 51 (14 Apr. 1925a).
Type: Madagascar. 'Région floristique du Centre. Haut Bemarivo, Analamahitso; vers 800 mètres d'altitude. Bois humides, Août 1907', *H. Perrier de la Bâthie 7800* (P00482729!, holo.; P00482730!, iso.).

*Schizolegnia ensifolia* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 31 (May 1958b), p.p., non (Sw.) Alston (1956a: 24).

Distribution: Madagascar.

**Lindsaea heterophylla** *Dryand*. in Transactions of the Linnean Society of London 3: 41, t. 8, fig. 1 (1797).
Type: 'Habitat in India Orientali: Malacca', *J. Robertson s.n.* (BM, holo.).

*Schizoloma heterophylla* (Dryand.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 414 (May 1841).

*Schizolegnia heterophylla* (Dryand.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 24 (1956a).

*L. cuneata* Willd., Species plantarum, edn 4, 5,1: 423 (25–27 Jun. 1810), non (G.Forst.) C.Chr. (1906: 392).
Type: "Habitat in insulae Borboniae sylvis", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20059-01 0!, holo.; BM, ?BR, P00482735!, iso.).

*Schizoloma cuneatum* (Willd.) Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 346 (1882).

*Schizolegnia cuneata* (Willd.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 24 (1956a).

*Adiantum heterophyllum* (Dryand.) Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 139, 140 (3 Sep. 1810).

*L. variabilis* Hook. & Arn., The botany of Captain Beechey's Voyage 6: 257, pl. 52 (Jul. 1838).
Type: 'Macao', *Millett s.n.* (not located).

*Schizolegnia heterophylla* (Dryand.) Alston var. *cuneata* (Willd.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 33 (May 1958b).

*L. boivinii* Mett. ex Kuhn, Filices africanae: 67, 206 (Oct. 1868), as '*Lindsaya*'.
Type: 'Ins. Comorae; ins. Mayotte', *L.H. Boivin 2882* (P00216755!, iso.).

*Schizoloma boivinii* (Mett. ex Kuhn) Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 346 (1882).

*Schizoloma pluriforme* Bonap., Notes Ptéridologiques 16: 51, 52 (14 Apr. 1925a).
Type: Madagascar. 'Manongarivo. Ambongo. Marais à *Raphia*, Octobre 1902', *H. Perrier de la Bâthie 7837* (P00482727!, P00482728!, syn.); Madagascar. 'Belombo près Mevatanana. Rochers granitiques humides, Octobre 1900', *H. Perrier de la Bâthie 335* (P00477902!, P00477903!, syn., plus 4 unnumbered sheets).

Distribution: Comoro Isl. (Mayotte), Madagascar, Mauritius, Réunion.

**Lindsaea humbertii** *(Tardieu) K.U.Kramer*, Bulletin du Jardin Botanique National de Belgique 42,3: 325, fig. 4 (30 Sep. 1972a).

*Sphenomeris humbertii* Tardieu in Notulae Systematicae (Paris) 15,2: 180, fig. 1, t. 6–9 (Apr. 1956d).
Type: Madagascar. 'Forêt ombrophile, 1 400 m, massif de l'Anjanaharibe, à l'Ouest d'Andapa', *H. Humbert, R. Capuron et G. Cours 24828* (P00482736!, holo.; BR, P00482737!, P00482738!, iso.).

Distribution: Madagascar.

**Lindsaea kirkii** *Hook. ex Baker*, Synopsis filicum 3: 108 (22 Jan. 1867a).
Type: Seychelles, without exact loc., 1862, *J. Kirk s.n.* (K000351018!, lecto.; GH, isolecto.), designated by Kramer (1972a: 331).

*Davallia hornei* Baker, Flora of Mauritius and the Seychelles: 470 (2 Aug. 1877b).
Type: Seychelles, common between rocks in the bed of streams', *J. Horne 677* (K000351015!, holo.).

*L. hornei* (Baker) C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 416 (1912).

*L. pervillei* Mett. ex Kuhn, Filices africanae: 17, 18 (Oct. 1868), as '*Lindsaya*'.
Type: 'Ins. Sechellae. In collinis. Aug. 1863', *O. Kersten 11* (B, 2 sheets!, holo.).

Distribution: Seychelles (Mahé, Parslin, Silhouette).

**Lindsaea leptophylla** *Baker* in Journal of Botany, British and Foreign 1884: 141 (1884c).
Type: Central Madagascar, Ansihanaka, *L. Humblot 495* (K000351016!, holo.; B20 0130192, BM, P00482739!, P00482740!, P00482741!, P00477904!, W, iso.).

*Schizoloma leptophylla* (Baker) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 37 (1956g), comb. inval. (McNeill *et al.* (2006) Art. 33.4).

*Schizolegnia leptophylla* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 36, fig. 5, t. 7–11 (May 1958b).

Distribution: Madagascar.

**Lindsaea madagascariensis** *Baker* in Journal of the Linnean Society, Botany 16: 198 (1877a), as '*Lindsaya*', var. **madagascariensis**.
Type: 'interior of Madagascar', *H. Gilpin s.n.* (K000351022!, holo.).

*Schizoloma madagascariense* (Baker) Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 346 (1882).

*Sphenomeris madagascariensis* (Baker) Tardieu in American Fern Journal 48,1: 34 (17 Apr. 1958a).

Distribution: Madagascar, Tanzania.

**Lindsaea madagascariensis** *Baker* var. **davallioides** *Baker* in Journal of the Linnean Society, Botany 16: 198 (1877a), as '*Lindsaya*'.
Type: Madagascar, 'Antanarivo', *H. Gilpin s.n.* (K000351024!, holo.).

*L. orbiculata* auct. non (Lam.) Mett. ex Kuhn (1869c: 279).

*Schizoloma orbiculatum* auct. non (Lam.) Kuhn (1882: 346).

*Schizolegnia orbiculata* auct. non (Lam.) Alston (1956a: 24).

Distribution: Madagascar.

**Lindsaea millefolium** *K.U.Kramer* in Acta Botanica Neerlandica 6,2: 135 (1957), nom. nov. for *Odontosoria decomposita* (Baker) C.Chr., non *Lindsaea decomposita* (Willd. 1810: 425).
Type: As for *Davallia decomposita* Baker.

*Davallia decomposita* Baker in Journal of Botany, British and Foreign 1884: 141 (1884c), non *L. decomposita* Willd. (1810: 425).
Type: "Madagascar", *L. Humblot 259* (K000351025!, holo.; BM, P00482742!, P00482743!, P00482744!, W!, iso.).

*Odontosoria decomposita* (Baker) C.Chr., Index filicum: 465 (1 Apr. 1906).

*Sphenomeris decomposita* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 78, pl. 26, figs 7, 8 (Oct. 1932b).

*Stenoloma decompositum* (Baker) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 173 (Oct. 1934).

*Sphenomeris flabellifolia* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 27 (May 1958b), p.p., non (Baker) C.Chr. (1932b: 78).

Distribution: Madagascar.

**Lindsaea odontolabia** *(Baker) K.U.Kramer* in Blumea 18,1: 190 (1970).

*Davallia odontolabia* Baker in Journal of Botany, British and Foreign 1884: 140, 141 (1884c).
Type: N.E. Madagascar, *L. Humblot 430* (K000351026!, holo.; BM!, P00482745!, P00482746!, P00482747!, iso.).

*Odontosoria odontolabia* (Baker) Diels in Die natürlichen Pflanzenfamilien 1,4: 215 (1899b).

*Sphenomeris odontolabia* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 77, t. 26, figs 6–10 (Oct. 1932b).

*Stenoloma odontolabium* (Baker) C.Chr., Index filicum. Supplementum tertium pro annis 1917–1933: 173 (Oct. 1934).

*Humblotiella odontolabia* (Baker) Tardieu in American Fern Journal 48,1: 33 (17 Apr. 1958a).

*Hymenophyllum lindsaeoides* Baker in Annals of Botany 8: 123 (1894).
Type: 'North-east Madagascar', *L. Humblot 430* (K000351027!, holo.; BM, iso.).

Distribution: Madagascar.

**Lindsaea odorata** *Roxb*. in Calcutta Journal of Natural History 4: 511 (1844).
Type: From Garrow Hills, India. No specimen extant. Plate 2578 of Icones Roxburghianae (K, lecto.), designated by Kramer (1972b: 40).

*L. cultrata* sensu Cordem., Flore de l'Ile de la Réunion: 43 (1895), non (Willd.) Sw. (1806b: 119).

*L. cultrata* auct., non (Willd.) Sw. (1806b: 119).

Distribution: Madagascar, Mauritius, Mozambique, Réunion, Zimbabwe.

**Lindsaea oxyphylla** *Baker* in Journal of Botany, British and Foreign 1891: 3 (1891b).
Type: Madagascar, source of Sambirano River, *J.T. Last s.n*. (K000351028!, holo.).

*Schizoloma oxyphyllum* (Baker) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 37 (1956g), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 32.5].

*Schizolegnia oxyphylla* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 33 (May 1958b).

Distribution: Madagascar.

**Lindsaea plicata** *Baker* in Journal of the Linnean Society, Botany 25: 350 (1889a).
Type: 'North-west Madagascar', *R. Baron 5887* (K000351029!, lecto.; P, iso.), designated by Tardieu-Blot (1956g: 34); (P00482748!, isosyn.).

*Sambirania plicata* (Baker) Tardieu in American Fern Journal 48,1: 33 (17 Apr. 1958a).

Distribution: Madagascar.

**Lindsaea repens** *(Bory) Thwaites*, Enumeratio plantarum zeylaniae 5: 388 (Dec. 1864).

*Dicksonia repens* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 323 (Sep. 1804b).
Type: "Insula Bourbon" *J.B.G.M. Bory de St.-Vincent s.n*. (P00482751!, holo.; B20 0097747, B20 0097748, iso.).

*Davallia repens* (Bory) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 314 (Jul. 1827), non Kuhn (1868: 27).

Distribution: Mauritius, Réunion.

**Lindsaea subtilis** *K.U.Kramer* in Bulletin du Jardin Botanique National de Belgique 42,3: 338, figs 3, 6 (30 Sep. 1972a).
Type: 'East-Central Madagascar, between Moramanga and Anosibe, N of Chutes de la Mort', *B.C. Stone 7901* (U0007347, holo.).

*Davallia emirnensis* Hook., Species filicum 1,3: 189 (Jan.–Sep. 1845), nom. nud. [McNeill *et al.* (2006) Art. 34.1]; t. 50C, as '*Davallia goudotiana*'.

*Acrophorus goudotianus* (Kunze) T.Moore var. *emirnensis* Hook. ex T.Moore, Index filicum 2,1: 2 (1857i), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Sphenomeris emirnensis* (Hook.) Tardieu in American Fern Journal 48,1: 34 (17 Apr. 1958a), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

## LONCHITIS

**Lonchitis** *L.* Species plantarum 2: 1078 (1 May 1753). Type: *Lonchitis hirsuta* L., lecto., designated by Brongniart (1826: 490).

*Anisosorus* Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti, ser. 2 2: 166 (1851), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Anisosorus* Trevis. ex Maxon, Scientific survey of Porto Rico and the Virgin Islands 6: 429 (15 Jun. 1926), nom. superfl. Type: *Lonchitis hirsuta* L.

*Antiosorus* Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 347 (1882), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Type: Kuhn ascribes the genus to Roemer, who never published the name. Kuhn lists two species, *A. hirsutus* and *A. occidentalis*, none of which are indicated as being the type.

**Lonchitis occidentalis** *Baker* in Synopsis filicum 4: 128 (22 Jan. 1867b).
Type: 'Angola, Cuanza Norte, Golungo Alto, Sobado de Quilombo, Quiacatubia', *F.M.J. Welwitsch 132* (K000350994!, K000350995!, lecto.), designated by Schelpe (1977: 72); (BM, LISU, iso.).

*Antiosorus occidentalis* (Baker) Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 347 (1882), nom. invalid. [McNeill *et al.* (2006) Art. 43.1].

*Anisosorus occidentalis* (Baker) C.Chr. in, Catalogue des plantes de Madagascar. Pteridophyta: 54 (Feb. 1932b).

*Anisosorus occidentalis* (Baker) C.Chr. var. *malgassicus* C.Chr. in Dansk Botanisk Arkiv 7: 139 (Oct. 1932b).
Type: Sine loc., *L. Humblot 284* (K, holo.).

*Pteris glaberrima* Mett. ex Kuhn, Filices africanae: 81 (Oct. 1868).
Type: 'Ins. Fernando Po', *G. Mann*, *C. Barter 2043* (?K, syn.); 'Montes Cameroon', *G. Mann 1386* (?K, syn.); 'Angola', *F.M.J. Welwitsch 132* (?K, syn.).

*L. friesii* Brause in Wissenschaftliche Ergebnisse der Schwedischen Rhodesia-Kongo Expedition 1911–1912 1: 6, 7 (1914).
Type: 'Nordost-Rhodesia: am Lunzua-Fluss nahe Abercorn, an schattigem Standort in der Nähe von einem Wasserfall, 8 Nov.', *R.E. Fries 1221* (UPS, holo.).

Chromosome number: n = ± 50 (Manton 1959: 78).

Distribution: Angola, Bioko, Cameroon, Central African Republic, DRC, Equatorial Guinea, Ghana, Guinea, Liberia, Madagascar, Nigeria, São Tomé, Sierra Leone, Tanzania, Uganda, Zambia.

**Lonchitis pubescens** *Willd. ex Kaulf*. var. **polypus** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 75 (May 1958b).

*L. polypus* Baker in Journal of the Linnean Society, Botany 15: 414 (1876b).
Type: Madagascar, Tananarive, *W. Pool s.n*. (K, holo.).

*L. tomentosa* Fée var. *polypus* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 142, pl. 54, figs 8, 9 (Oct. 1932b).

Distribution: Madagascar.

## ODONTOSORIA

**Odontosoria** *(C.Presl) Fée*, Cinquième mémoires sur la famille des fougères: 325 (1852).

*Davallia* J.Sm. sect. *Odontosoria* C.Presl, Tentamen pteridographiae: 129 (Oct. 1836). Type: *Odontosoria uncinella* (Kunze) Fée; *Davallia uncinella* Kunze.

*Sphenomeris* Maxon in Journal of the Washington Academy of Sciences 3: 144 (1913a), nom. cons. Type: *Sphenomeris clavata* (L.) Maxon; *Adiantum clavatum* L. (now *Odontosoria clavata* (L.) J.Sm.).

**Odontosoria afra** *(K.U.Kramer) J.P.Roux*, Conspectus of southern African Pteridophyta: 94 (Nov. 2001a).

*Sphenomeris afra* K.U.Kramer in Bulletin du Jardin Botanique National de Belgique 41,3: 353, fig. 1 (30 Sep. 1971a).
Type: Angola Minungo, Xá-Sangue, *R.G.N. Young 1118* (BM, holo.; U0007353, iso.).

*Stenoloma chinense* (L.) Bedd. var. *divaricatum* sensu Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 65, t. 9, figs 1, 2 (1953d), non (H.Christ) Alston (1944: 73).

*O. chinensis* sensu Bonap. in Notes Ptéridologiques 14: 269 (23 Nov. 1923b), non (L.) J.Sm. (1857b: 430).

Distribution: Angola, Congo, DRC, Malawi, São Tomé, Tanzania.

**Odontosoria africana** *F.Ballard* in Kew Bulletin 1957,1: 143, 144, fig. 1 (28 May 1957b).
Type: 'Uganda. Kigezi District; Mushungero, 2 000 m alt., occasional fern climbing to 5 ft.; stems red, August 21. 1938', *A.S. Thomas 2409* (K000351033!, K000351034!, holo; KAW, P00482753!, iso.).

*O. melleri* sensu Brause in Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908, Botanik 2: 6 (Dec. 1910), non (Hook. ex Baker) C.Chr. (1905: 212).

*Stenoloma chinense* (L.) Bedd. var. *divaricatum* sensu Demaret, Résultats scientifiques de l'Exploration Hydrobiologique du Lac Tanganica 4,2: 33, fig. 2 (1955), non (H.Christ) Alston (1944: 73).

Distribution: Burundi, DRC, Rwanda, Uganda.

**Odontosoria chinensis** *(L.) J.Sm.* in The botany of the voyage of H.M.S. Herald 10: 430 (May–Jun. 1857b).

*Trichomanes chinense* L., Species plantarum 2: 1099 (1 May 1753), as '*chinesis*'.
Provenance: 'Habitat in China. *Osbeck*'. Type: Not designated. Fosberg (1969: 596–598) and Kramer (1971b: 182) treat the P. Osbeck material in S-PA as type, but this collection has not been located (Hansen & Fox Maule 1973: 208).

*Davallia chinensis* (L.) Sm. in Mémoires de l'Academie Royale des Sciences de Turin 5: 414 (1793).

*Adiantum chinense* L. ex Sw., Synopsis filicum: 133 (1806b), in syn., non Burm.f. (1768a: 236).

*Lindsaea chinensis* (L.) Mett. ex Kuhn, Filices africanae: 67 (Oct. 1868), non Ching (1929: 5). as '*Lindsaya*'.

*Stenoloma chinensis* (L.) Bedd., Handbook to the ferns of British India: 70, pl. 34 (May 1883).

*Sphenomeris chinensis* (L.) Maxon in Journal of the Washington Academy of Sciences 3: 144 (1913a), nom. inval. [McNeill *et al.* (2006) Art. 32.1(d)].
Note: Maxon (1913a: 144) based the combination on *Adiantum chinense* L., a name that does not exist.

*A. chinense* L. ex Maxon in Journal of the Washington Academy of Sciences 3: 144 (1913a), in syn., non Burm. f. (1768a: 236).

*Sphenomeris chinensis* (L.) Maxon ex Maxon, Contributions from the United States National Herbarium 17,2: 159 (1913b).

*A. chusanum* L., Species plantarum 2: 1095, 1096 (1 May 1753).
Provenance: 'Habitat in China'. Type: Not designated. Discussed by Fosberg (1969: 596–598).

*Sphenomeris chusana* (L.) Copel. in Bulletin of the Bernice P. Bishop Museum 59: 69 (1929a).

*Stenoloma chusana* (L.) Ching in Sinensia 3: 337 (1933a).

*O. chusana* Masam. in Memoires of the Faculty of Sciences and Agriculture, Taihoku Imperial University 11,4: 67 (1934).

*A. chinense* Burm.f., Flora indica: 236 (1 Mar.–6 Apr. 1768a), is probably this species.

*A. tenuifolium* Lam. in Encyclopedie méthodique, Botanique 1,1: 44 (2 Dec. 1783).
Type: 'Inde', *P. Sonnerat s.n.* (P, holo.).

*D. tenuifolia* (Lam.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 88 (1801).

*L. tenuifolia* (Lam.) Mett. in Annales des Sciences Naturalles. Botanique. Paris 15: 64 (1861).

*O. chinensis* (L.) J.Sm. var. *tenuifolia* (Sw.) Bonap. in Notes Ptéridologiques 4: 20 (19 May 1917a).

*Sphenomeris chinensis* (L.) Maxon var. *tenuifolia* (Lam.) C.Chr. in Dansk Botanisk Arkiv 7: 78, pl. 27, figs 4–6 (Oct. 1932b).

*T. cuneiforme* G.Forst., Florulae insularum australium prodromus: 85 (Oct.–Nov. 1786b).

*D. ferruginea* Cav., Descripción de las plantas 1: 277 (1801a).

*T. polysperma* Poir. in Encyclopedie méthodique, Botanique 8: 82, 83 (22 Aug. 1808).
Type: 'Cette plante a été recueillie à l'île de Madagascar', *L.-M.A. du Petit-Thouars s.n.* (not located).

*O. chinensis* (L.) J.Sm. var. *divaricata* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 23, 24 (1909a).
Type: 'San-Thomé: rochers humides en allant au sommet du Pic, après Lagua Amelia, 1 400 m. a 1 800 m. alt., sept. 1905', *A. Chevalier 14309* (P00482752!, P00113801!, syn., 2 sheets).

*Stenoloma chinense* (L.) Bedd. var. *divaricatum* (H.Christ) Alston in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 73 (1 Sep. 1944).

*Sphenomeris chusana* (L.) Copel. var. *divaricata* (H.Christ) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 29 (May 1958b).

*Sphenomeris chinensis* (L.) Maxon var. *divaricata* (H.Christ) K.U.Kramer in Blumea 15,2: 572 [1967] (1968).

*O. palmii* H.Rosend. in Arkiv för Botanik 14,18: 4, 5, t. 3, figs 1, 2 (1916).
Type: 'Madgascar: Moramanga in silva, 3/10/1912', *K.R. Afzelius & B.T. Palm s.n.* (S-PA, holo., 2 sheets).

Distribution: Comoro Isl. (Anjouan, Grande Comore, Mayotte), Madagascar, Mauritius, Réunion, São Tomé, Seychelles.

**Odontosoria melleri** *(Hook. ex Baker) C.Chr.*, Index filicum: 465 (1 Apr. 1906).

*Davallia melleri* Hook. ex Baker in Synopsis filicum 3: 102 (22 Jan. 1867a).
Type: "Madagascar. From the sea to Antananarivo, Aug./Sept. 1862", *C.J. Meller 255* (K000351035!,

K000351036!, lecto., 2 sheets; B!, 2 unnumbered sheets, GH, L, W!, iso.); "Madagascar", *R. Lyall s.n.* (K000351037!, syn.).

*Sphenomeris melleri* (Hook. ex Baker) C.Chr., Dansk Botanisk Arkiv 7: 78, pl. 27, figs 1–3 (Oct. 1932b).

*Stenoloma melleri* (Hook. ex Baker) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 173 (Oct. 1934).

*D. ferruginea* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 315 (Jul. 1827), non Cav. (1801a: 277).

*Lindsaea ferruginea* (Desv.) Kuhn, Filices africanae: 68 (Oct. 1868).

Distribution: Madagascar.

## LOMARIOPSIDACEAE

**Lomariopsidaceae** *Alston* in Taxon 5,2: 25 (25 Mar. 1956c). Type: *Lomariopsis* Fée.

*Dennstaedtiaceae* subfam. *Lomariopsidoideae* Holttum in Botanical Journal of the Linnean Society 53,350: 146 (1947), excl. *Elaphoglossum*, nom. nud. [McNeill *et al.* (2006) Art. 36.1].

*Lomariopsidaceae* Alston tr. *Lomariopsideae* Pic.Serm. in Webbia 23,2; 381 (20 Nov. 1969b). Type: *Lomariopsis* Fée.

*Aspleniaceae* Mett. ex A.B.Frank subfam. *Lomariopsidoideae* (Alston) Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 154 (30 Jul. 1975).

### LOMARIOPSIS

**Lomariopsis** *Fée*, Mémoires sur la famille des fougères 2: 10, 66 (1845a). Type: *Lomariopsis sorbifolia* (L.) Fée; *Acrostichum sorbifolium* L., designated by Smith (1875: 140).

*Acrostichum* L. sect. *Lomariopsis* (Fée) Hook., Species filicum 5,18/20: 241 (Jun. 1864b).

*Stenochlaena* J.Sm. sect. *Lomariopsis* (Fée) Underw. in Bulletin of the Torrey Botanical Club 33: 37 (1906).

**Lomariopsis boivinii** *Holttum* in Notulae Systematicae (Paris) 8,1: 53 (1939).
Type: Madagascar. "Nossi-Bé, forêt du "Lomombé" vers le haut", *L.H. Boivin 1947/2* (P00483282, holo.; P00483283, iso.).

Distribution: Madagascar.

**Lomariopsis congoensis** *Holttum* in Kew Bulletin 1939,10: 622, figs 8, 9 (1940a).
Type: 'Portuguese Congo. Mayumbe. In wet situation near the village Caio, Hombe region, Rio Lufo, Maiombe. April 1919', *J. Gossweiler 8219* (BM, holo.).

Distribution: Angola, Central African Republic, Chad, Congo, Gabon, Uganda.

**Lomariopsis cordata** *(Bonap.) Alston* in Journal of Botany, British and Foreign 72,861 Supplement: 6 (1934a).

*Stenochlaena cordata* Bonap. in Notes Ptéridologiques 4: 73, 74 (19 May 1917b).
Type: Madagascar. 'Région floristique du Centre. Montagnes d'Ambre. Vers 800 mètres d'altitude. Bois. Novembre 1909', *H. Perrier de la Bâthie 7498* (P00483284, P00483285, holo.).

Distribution: Madagascar.

**Lomariopsis crassifolia** *Holttum* in Notulae Systematicae (Paris) 8,1: 57 (1939).
Type: 'Madagascar', *L. Humblot 529* (P00483286, holo.; P00483287, P00483288, P00483289, iso.).

Distribution: Madagascar.

**Lomariopsis decrescens** *(Baker) Kuhn* in Verhandlungen der Kaiserlich-Königlichen Zoolisch-Botanischen Gesellschaft in Wien 19: 571 (1869a).

*Acrostichum decrescens* Baker in Synopsis filicum 10: 412 (Apr. 1868b).
Type: 'Cameroon Mountains, West Tropical Africa', *G. Mann 1391* (B20 0130219, fragm., iso.).

*Stenochlaena decrescens* (Baker) Underw. in Bulletin of the Torrey Botanical Club 33: 46 fig. 5 (1906).

*A. polyphyllum* Hook., Species filicum 5,18/20: 243, 244 (Jun. 1864b).
Type: 'Cameroon Mountains, alt. 4000 ft', *G. Mann s.n.* (K?, holo.).

*L. polyphylla* (Hook.) Kuhn, Filices africanae: 54 (Oct. 1868).

Distribution: Bioko, Cameroon.

**Lomariopsis guineensis** *(Underw.) Alston* in Journal of Botany, British and Foreign 72,861 Supplement: 5 (1934a).

*Stenochlaena guineensis* Underw. in Bulletin of the Torrey Botanical Club 33: 46, fig. 3 (1906).
Type: 'Fernando Po', *G. Mann 139* (K000435715, K000435716, holo.).

*L. guineensis* Kuhn, Filices africanae: 53 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Chromosome number: n = ± 39 (Manton 1959: 80).

Distribution: Angola, Benin, Bioko, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatoria Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Sudan, Togo.

**Lomariopsis hederacea** *Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 5, 6 (1934a).
Type: 'P. Congo: Rio Lufo, Belize, Mayumbe, in shady humid situations', *J. Gossweiler 8218* (BM, holo.; LISC000009, iso.).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, DRC, Equatorial Guinea, Gabon, Kenya, Nigeria, São Tomé, Tanzania.

**Lomariopsis longicaudata** *(Bonap.) Holttum* in Notulae Systematicae (Paris) 8,1: 58 (1939).

*Stenochlaena longicaudata* Bonap. in Notes Ptéridologiques 5: 93, 94 (10 Dec. 1917e).
Type: Madagascar. 'Province d'Andovoranto. District d'Anivorano. Forêt au Sud d'Anivorano, près des sources de la rivière Sahandranolana, près d'Ambohitromby; 200 mètres d'altitude. Le 8 Octobre 1912', *R. Viguier & H. Humbert* 573 (P?, holo.).

*S. pollicina* C.Chr. var. *longicaudata* (Bonap.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 45 (Feb. 1932a).

*S. pollicina* C.Chr. var. *longicaudata* C.Chr. in Dansk Botanisk Arkiv 7: 108, pl. 41, fig. 2 (Oct. 1932b).

*Acrostichum buxifolium* Kunze, Die Farrnkräuter 1,8: 171, pl. 72 (21–23 Jul. 1845a).
Type: Madagascar, *J. Goudot s.n*. (P00483405, iso.).

*L. buxifolia* (Kunze) Fée, Mémoires sur la famille des fougères 2: 69 (1845a).

*S. pollicina* C.Chr. var. *buxifolium* (Kunze) Bonap. in Notes Ptéridologiques 5: 94 (10 Dec. 1917e).

Distribution: Madagasar.

**Lomariopsis mannii** *(Underw.) Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 6 (1934a).

*Stenochlaena mannii* Underw. in Bulletin of the Torrey Botanical Club 33: 47, 49, fig. 2 (1906).
Type: 'Fernando Po: 5000 ft., 1860', *G. Mann 354* (K000435712, K000435713, K000435714, holo.).

Distribution: Bioko, Cameroon, Equatorial Guinea, Nigeria.

**Lomariopsis mauritiensis** *Lorence* in Fern Gazette 11,6: 367, 368, figs 1, 2 (1978a).
Type: 'Mauritius, eastern flank of Mt. Lagrave', *D.H. Lorence 821* (MAU16293, holo.).

Distribution: Mauritius.

**Lomariopsis muriculata** *Holttum* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1939,10: 624, 625, fig. 10 (1940a).
Type: 'Belgian Congo. Yoga', *Jespersen 26* (BR, holo.).

Distribution: Bioko, Equatorial Guinea.

**Lomariopsis palustris** *(Hook.) Mett. ex Kuhn*, Filices africanae: 53 (Oct. 1868).

*Acrostichum palustre* Hook., Species filicum 5,18/20: 214, 215 (Jun. 1864b).
Type: 'banks of the Onitoha', *C. Barter 1452* (K000435710, K000435711, lecto.), designated by Schelpe (1969b: 37); 'Sierra Leone', *C. Barter s.n*. (not located); 'In swamps, Ambus Bay, tropical West Africa', *G. Mann 785* (not located).

*Elaphoglossum palustre* (Hook.) J.Sm., Ferns: British & foreign, edn 2: 298 (Jul.-Aug. 1877).

*Stenochlaena elaphoglossoides* C.Chr., Index filicum. Supplementum tertium pro annis 1917–1933: 172 (Oct. 1934), nom. nov. for *Elaphoglossum palustre* (Hook.) J.Sm.

Distribution: Angola, Cameroon, Côte d'Ivoire, Gabon, Ghana, Guinea, Liberia, Nigeria, Sierra Leone.

**Lomariopsis pervillei** *Mett. ex Kuhn*, Filices africanae: 53 (Oct. 1868).
Type: 'Ins. Sechellae', *M. Pervillé 96* (?, holo.; K000435705, iso.).

*Stenochlaena pervillei* (Mett.) Underw. in Bulletin of the Torrey Botanical Club 33: 49, fig. 1 (1906).

Distribution: Comoro Isl. (Mayotte), Seychelles.

**Lomariopsis pollicina** *P.Willemet ex Kuhn*, Filices africanae: 53 (Oct. 1868).

*Osmunda pollicina* P.Willemet in Annalen der Botanik (P. Usteri, ed.) 18: 61 (1796).
Type: 'Habitat in sylva montis Pollicis', *sine coll. s.n*. (not located).

*Lomariopsis pollicina* P.Willemet ex Kuhn var. *buxifolium* (Kunze) Mett. ex Kuhn, Filices africanae: 54 (Oct. 1868).

*Stenochlaena pollicina* (P.Willemet ex Kuhn) C.Chr., Index filicum: 7 (5 May 1905); 625 (18 Nov. 1906).

*Polypodium orbiculatum* Poir. in Encyclopedie méthodique, Botanique 5: 525 (9 Jan. 1804).
Type: 'l'île de Java', *P. Commerson s.n*. (P-Desf., holo.).

*Lomaria fraxinea* Willd., Species plantarum, edn 4, 5,1: 294 (25–27 Jun. 1810).
Type: 'Habitat in arboribus insulae Mauritii', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19848-01 0, holo.).

*Acrostichum lomarioides* Bory in Voyage aux Indes Orientales. Botanique 2,1: 21, pl. 2 (25 May 1833).
Type: 'Les forets sombres de Maurice, rampant contre les vieux troncs d'arbres', *sine coll. s.n.* (not located).

*Lomariopsis boryana* Fée, Mémoires sur la famille des fougères 2: 68 (1845a), nom. nov. for *Acrostichum lomarioides* Bory.

*Lomaria elliptica* Bojer, Hortus mauritianus: 406 (1837).
Type: 'Ile Maurice', *sine coll. s.n*. (not located).

*A. buxifolium* Kunze, Die Farrnkräuter 1,8: 171, pl. 72 (21–23 Jul. 1845a).
Type: 'Madagaskar', *J. Goudot s.n.* (not located).

*Lomariopsis buxifolia* (Kunze) Fée, Mémoires sur la famille des fougères 2: 69 (1845a).

*S. buxifolia* (Kunze) Underw. in Bulletin of the Torrey Botanical Club 33: 45 (1906).

Distribution: Madagascar, Mauritius, Réunion.

**Lomariopsis rossii** *Holttum* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1939,10: 625, 626, figs 11, 12 (1940a).
Type: 'Nigeria. Shasha Forest Reserve, Ijebu Province, Baba-Eku, swamp forest, on base of a tree trunk', *A.F. Ross 22*, Cambridge Botanical Expedition 1935, (BM, holo.).

Distribution: Bioko, Cameroon, Côte d'Ivoire, DRC, Equatorial Guinea, Ghana, Liberia, Nigeria.

**Lomariopsis variabilis** *(Willd.) Fée*, Mémoires sur la famille des fougères 2: 70, t. 31, 32 (1845a).

*Lomaria variabilis* Willd., Species plantarum, edn 4, 5,1: 294, 295 (25–27 Jun. 1810).
Type: 'Habitat in insulae Mauritii arboribus magnis', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19849-01 0, holo.).

Distribution: Mauritius.

**Lomariopsis warneckei** *(Hieron.) Alston* in Journal of Botany, British and Foreign 72, 861, Supplement: 6 (1934a).

*Stenochlaena warneckei* Hieron. in Botanische Jahrbücher 46,3: 382 (1911).
Type: 'Deutsch-Ostafrika: an Baumstämmen feuchter schattiger Orte der Schluchtenwaldung bei Amani, März 1903', *O. Warnecke 312* (B20 0092730, B20 0092731, B20 0092732, B20 0092733, B20 0092734, B20 0092735, B20 0092736, holo.; K, BM, US, iso.).

*L. nigrescens* Holttum in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1939,10: 627, figs 13, 14 (1940a).
Type: 'Fernando Po', *G. Mann s.n*. (K, holo.).

Distribution: Bioko, Burundi, Equatorial Guinea, Kenya, Malawi, Mozambique, Príncipe, Rwanda, Tanzania, Uganda, Zimbabwe.

## NEPHROLEPIDACEAE

**Nephrolepidaceae** *Pic.Serm.* in Webbia 29,1: 8, 9 [1974] (10 Feb. 1975a). Type: *Nephrolepis* Schott.

### NEPHROLEPIS

**Nephrolepis** *Schott*, Genera filicum 1: 1, 2, pl. 3, figs 1–13 (1834a). Lectotype: *Nephrolepis exaltata* (L.) Schott; *Polypodium exaltatum* L., designated by Smith (1875: 226).

*Lepidoneuron* Fée, Cinquième mémoires sur la famille des fougères: 301 (1852). Type: *Lepidoneuron biserratum* (Sw.) Fée; *Aspidium biserratum* Sw. (now *Nephrolepis biserrata* (Sw.) Schott).

*Leptopleuria* C.Presl, Tentamen pteridographiae: 136, 137, pl. 5, figs 9–11 (Oct. 1836). Type: *Leptopleuria abrupta* (Bory) C.Presl; *Dicksonia abrupta* Bory.

**Nephrolepis abrupta** *(Bory) Mett.*, Filices horti botanici lipsiensis: 99 (May–Jun. 1856a).

*Dicksonia abrupta* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 187, pl. 30 (Sep. 1804b). Type: "N. dans l'enclos du volcan de l'Ile Mascareigne, vers la Plaine des Osmondes", *J.B.G.M. Bory de St.-Vincent s.n.* (K000435701, L, P00483347!, P00483348!, iso.).

*Leptopleuria abrupta* (Bory) C.Presl, Tentamen pteridographiae: 137, pl. 5, figs 9–11 (Oct. 1836).

Distribution: Comoro Isl., Madagascar, Réunion.

**Nephrolepis acutifolia** *(Desv.) H.Christ* in Verhandlungen der Naturforschenden Gesellschaft in Basel 11: 243 (1895a).

*Lindsaea acutifolia* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 312 (Jul. 1827).
Type: 'Crescit in insula Mascareigne', *sine coll. s.n.* (P00483349, ?holo.).

*Isoloma lanuginosa* J.Sm. in Genera filicum: pl. 102 (1838). Type: 'East Indies' *N. Wallich 154.1* & Herb. Findlayson, without data (K, syn.).

*L. lanuginosa* (J.Sm.) Hook., Species filicum 1,3: pl. 49/b (Jan.–Sep. 1845); 1,4: 210 (1 Jan. 1846).

Distribution: Cameroon, Congo, DRC, Gabon, Kenya, Madagascar, Mozambique, Rodrigues Isl.

**Nephrolepis biserrata** *(Sw.) Schott*, Genera filicum 1: pl. 3 (1834a).

*Aspidium biserratum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 32 (1801).
Type: 'Ex insula Mauritii', *C.F. Gröndahl s.n.* (S, holo.).

*Nephrodium biserratum* (Sw.) C.Presl, Reliquiae haenkeanae 1,1: 31 (Jun.–Nov. 1825).

*Hypolepis biserrata* (Sw.) Bory in Voyage aux Indes Orientales. Botanique 2,1: 65 (25 May 1833).

*Lepidoneuron biserratum* (Sw.) Fée, Cinquième mémoires sur la famille des fougères: 301 (1852), as '*Lepidonevron*'.

*Polypodium auriculatum* L., Species plantarum 2: 1088 (1 May 1753).
Type: Ceylon. Herb. *P. Hermann* 1: 39, no. 383 (BM, lecto.), designated by Trimen (1888: 152), nom. rej. prop. (Verdcourt 1996: 540); (Zimmer 1999: 134).

*Nephrolepis auriculata* (L.) Trimen in Journal of the Linnean Society, Botany 24,160: 152 (28 Nov. 1888).

*A. punctulatum* Sw., Synopsis filicum: 46, 245 (Mar.–Apr. 1806b).
Type: based on C. Plumier, Traité des fougères de l'Amerique: 98, t. 112 (1705).

*Nephrolepis punctulata* (Sw.) C.Presl, Tentamen pteridographiae: 79 (Oct. 1836).

*A. acutum* Schkuhr, Deutschland's kryptogamische Gewäche 1: 32, pl. 31 (6 May 1810).
Type: Sine loc., ex Herb. Breyne (HAL?, holo.).

*Nephrodium acutum* (Schkuhr) C.Presl, Reliquiae haenkeanae 1: 31, 32 (Jun.–Nov. 1825).

*Nephrolepis acuta* (Schkuhr) C.Presl, Tentamen pteridographiae: 79 (Oct. 1836).

*A. mauritianum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 320 (1811).
Type: 'Habitat in insula Mauritii', *sine coll. s.n.* (?P, holo.).

*Nephrolepis biserrata* (Sw.) Schott var. *mauritiana* (Desv.) Kuhn, Filices africanae: 155 (Oct. 1868).

*A. guineense* Schumach., Beskrivels af Guineeiske planter: 455 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 229 (1829).
Type: Ghana, 'Aquapim', *P. Thonning s.n.* (C, iso.).

*L. biauritum* (C.Presl) Fée, Cinquième mémoires sur la famille des fougères: 301 (1852).

*Nephrolepis biaurita* (Fée) C.Presl, Epimeliae botanicae: 43 (1851).
Type: 'Habitat in insula Mauritii', *C.T. Hilsenberg s.n.* (not located).

*Nephrolepis biserrata* (Sw.) Schott var. *glandulosa* Kuhn, Filices africanae: 27 (Oct. 1868).
Type: 'Insulae Sechellae. In collibus. Aug. 1863', *O. Kersten 64, 65, 66* (not located).

*Nephrolepis caudata* H.Christ in Annales du Musée du Congo (Belge). Botanique sér. 5, 3: 27 (1909b).
Type: Congo. 'Eala, 1 février 1907', *L. Pynaert 1027* (BR, holo.; P00477793!, iso.).

*Nephrolepis arthropterioides* G.Kunkel in Nova Hedwigia 6,1/2: 205 (1963a).
Type: 'Liberia (Westafrika), etwa 15 km östlich von J. Davis-Town (Tscien/Putu, Eastern Province), 180 m; an Waldrändern, terrestrisch, mit *N. biserrata* vergesellschaftet; selten', *G. Kunkel F-127* (842 on specimens) (B20 0077353, B20 0077354, holo.).

*Nephrolepis biserrata* (Sw.) Schott var. *digitiformis* G.Kunkel in Nova Hedwigia 6,1/2: 206 (1963a).
Type: 'Liberia: Careysburg Road, 150 m, Buschrand; Gbi-Forest, 210 m, sumpfiger Waldboden; Westl. des Gredo-Forest, 190 m, nasse Buschrand; bei Bitiba (Voinjama District), 500 m, Bachböschung', *G. Kunkel F-126* (B20 0077314, iso.).

*P. punctulata* (Sw.) C.Presl var. *hirsuta* Mett. ex Kuhn, Filices africanae: 156 (Oct. 1868).

*A. punctulatum* sensu Schumach., Beskrivels af Guineeiske planter: 454 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 228 (1829), non Sw. (1806b: 46, 245).

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Angola, Annobon, Benin, Bioko, Burkina Faso, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Pemba, Príncipe, Rodrigues Isl., São Tomé, Senegal, Serra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

**Nephrolepis cordifolia** *(L.) C.Presl*, Tentamen pteridographiae: 79 (Oct. 1836), var. **cordifolia**.

*Polypodium cordifolium* L., Species plantarum 2: 1089 (1 May 1753), nom. cons.
Type: 'Habitat in America'. J. Petiver, Pteri-graphia americana t. 1, fig. 11 (1712), based on a plant from

Hispaniola (Haiti), *sine coll. s.n*. The type is unsatisfactory as the plate may represent various taxa. Hispaniola, Dominican Republic, prov. De San José de Ocoa, slope of Loma del Rancho, *E.L. Ekman H11627* (K, lecto.; B!, LD, S, UPS, iso.), cons. type chosen by Verdcourt (1996: 539–540).

*Aspidium cordifolium* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 32 (1801).

*A. tuberosum* Bory ex Willd., Species plantarum, edn 4, 5,1: 234, 235 (25–27 Jun. 1810).
Type: "Habitat in insulae Borboniae arboribus", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19759!, holo.; L, P00483350!, iso.).

*Nephrodium tuberosum* (Bory ex Willd.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 252 (Jul. 1827).

*A. imbricatum* Spreng., Systema vegetabilium, edn 16, 4,1: 97 (Jan. 1827).
Type: Mauritius, *F.W. Sieber 41* (K000435696, 000435699, holo.; P00483351!, P00483352!, iso.).

*Nephrolepis imbricata* (Spreng.) C.Presl, Tentamen pteridographiae: 79 (Oct. 1836).

*Nephrodium imbricatum* (Spreng.) Bojer, Hortus mauritianus: 392 (1837).

*Nephrolepis cordifolia* (L.) C.Presl f. *aurea-glandulosa* Bonap. in Notes Ptéridologiques 4: 69 (19 May 1917b).
Type: Madagascar. 'Région floristique du Centre. Falaises près d'Amborimanga, au Sud; bois 1200 mètres d'altitude. Janvier 1912', *H. Perrier de la Bâthie 7899* (P00483353!, holo.).

*Nephrolepis auriculata* sensu Trimen in Journal of the Linnean Society, Botany 24,160: 152 (28 Nov. 1888), non *Polypodium auriculatum* L. (1753: 1088), nom. rej.

Distribution: Mauritius, Kenya*, Madagascar, Réunion, Seychelles, Tanzania* (*naturalised).

**Nephrolepis cordifolia** *(L.) C.Presl* var. **pumicicola** *(F.Ballard.) Hovenkamp & Miyam*. in Blumea 50,2: 297 (2005).

*N. pumicicola* F.Ballard in Kew Bulletin 1955,3: 467 (20 Dec. 1955a).
Type: 'British Cameroons: Cameroons Mtn., between Isobi and Bibundi, 30 m., 22 lava flow, terrestrial fern growing in crevices, with erect stem and fronds; pinnules horizontal, 17 Jan. 1951', *R.W.J. Keay FHI 28655* (K000435702, holo.; BM, FHI, iso.).

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Bioko, Cameroon, Equatorial Guinea, São Tomé.

**Nephrolepis delicatula** *(Decne.) Pic.Serm*. in Webbia 23,1: 181 (20 Nov. 1968a).

*Nephrodium delicatulum* Decne. in Voyage dans l'Inde. Botany 4: 178, t. 179 (1841–1844).
Type: India: in silvis umbrosis, ad truncos emortuos, inter Carli et Candahah, *V.V. Jacquemont s.n.*, Voyage aux Indes orient. 598 (P, holo.; K, iso.).

*Nephrolepis tuberosa* (Bory ex Willd.) C.Presl var. *delicatula* (Decne.) Hook., Species filicum 4,14: 151 (Aug. 1862c).

*Nephrolepis undulata* (Afzel. ex Sw.) J.Sm. var. *delicatula* (Decne.) Verdc. in Flora of tropical East Africa, Oleandraceae: 7 (30 Jun. 2001a).

*Nephrolepis filipes* H.Christ in Annales du Musée du Congo (Belge). Botanique sér. 5, 1,3: 213 (1906).
Type: Congo. 'Environ de Kisantu, 1903', *J.B. Gillet 3126* (BR, holo.; P00477792!, iso.).

Distribution: Angola, Bioko, Cameroon, DRC, Ghana, Guinea, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Nephrolepis exaltata** *(L.) Schott*, Genera filicum 1: pl. 3 (1834a).

Type: Sloane, Nat. Hist. Jamaica 1: t. 31, a figure of a plant collected in an unknown locality in Jamaica by Sir Arthur Rawdon's gardener (icon.).

*Polypodium exaltatum* L., Systema naturae, edn 10, 2: 1326 (May–Jun. 1759).
Lectotype: Sloane, Herb. 1: 52, (BM), designated by Alston (1933: 182).

*Aspidium exaltatum* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 32 (1801).

*Hypopeltis exaltata* (L.) Bory in Voyage aux Indes Orientales. Botanique 2,1: 66 (25 May 1833).

Distribution: South Africa, Swaziland, Tanzania, Zimbabwe (naturalised).

**Nephrolepis undulata** *(Afzel. ex Sw.) J.Sm*. in Companion to the Botanical Magazine 72: 35 (1846).

*Aspidium undulatum* Afzel. ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 32 (1801).
Type: Sierra Leone, *A. Afzelius s.n*. (S-PA, holo.; BM, UPS, iso.).

*N. tuberosa* (Bory ex Willd.) C.Presl var. *undulata* (Afzel. ex Sw.) Mett. ex Kuhn, Filices africanae: 156 (Oct. 1868).

*N. cordifolia* (L.) C.Presl var. *undulata* (Afzel. ex Sw.) C.Chr., Index filicum: 453, 455 (1 Apr. 1906).

*N. cordifolia* (L.) C.Presl var. *compacta* Bonap. in Notes Ptéridologiques 14: 265 (23 Nov. 1923b).
Type: Congo. 'De Mboga vers Lesse. Environ 1 400 mètres d'altitude. Savane herbeuse. Sur le sol. Le 18 mars 1914', *J.C.C. Bequaert 3018* (BR, holo.; P00483354!, iso.).

*N. undulata* (Afzel. ex Sw.) J.Sm. var. *aureoglandulosa* (Bonap.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 64 (May 1958b).

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Angola, Benin, Bioko, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo), Central African Republic, Comoro Isl., Congo, Chad, Coté d'Ivoire, DRC, Eritrea, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Príncipe, Rwanda, São Tomé, Senegal, Sierra Leone, Socotra, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

## OLEANDRACEAE

**Oleandraceae** *Ching ex Pic.Serm*. in Webbia 20,2: 745 (20 Dec. 1965). Type: *Oleandra* Cav.

*Polypodiaceae* Bercht. & J.Presl subfam. *Oleandroideae* C.Chr. in Manual of pteridology: 536 (3 Apr. 1938), nom. nud. [McNeill *et al.* (2006) Art. 36.1 & Art. 41.1].

*Dennstaedtiaceae* subfam. *Oleandroideae* Holttum in Journal of the Linnean Society, Botany 53,350: 137 (1947), nom. nud. [McNeill *et al.* (2006) Art. 36.1 & Art. 41.1].

*Davalliaceae* Mett. ex A.B.Frank subfam. *Oleandroideae* (C.Chr.) Tindale in Contributions from the New South Wales National Herbarium, Flora Series 208–211: 7 (1961), nom. nud. [McNeill *et al.* (2006) Art. 41.1(b)].

*Oleandraceae* Ching in Sunyatsenia 5,4: 221 (30 Oct. 1940a), nom. nud. [McNeill *et al.* (2006) Art 36.1 & Art. 41.1].

*Davalliaceae* Mett. ex A.B.Frank subfam. *Oleandroideae* (Ching ex Pic.Serm.) Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 154 (30 Jul. 1975).

## OLEANDRA

**Oleandra** *Cav*. in Anales de Historia Natural 1,2: 115 (1799). Type: *Oleandra neriformis* Cav., corrected by Swartz (1806b: 42, 237) to '*neriiformis*'.

*Aspidium* Sw. subgen. *Oleandra* (Cav.) Splitg. in Tijdscrift voor Natuurlijke Geschiedenis en Physiologie 7: 411 (1840).

**Oleandra annetii** *Tardieu* in Notulae Systematicae (Paris) 14,4: 332, 333 (Dec. 1953a).
Type: 'Cameroun; Mt. Findé, rochers sous forêt', "Cameroun Lolodorf Mt. Findé Rochers sous forêt 15 juin 1918", *E. Annet 333* (P00483339!, holo.).

*O. distenta* Kunze var. *annetii* (Tardieu) Tardieu in Notulae Systematicae (Paris) 15,2: 178 (Apr. 1956d).

*O. articulata* (Sw.) C.Presl var. *annetii* (Tardieu) Morton in American Fern Journal 58,3: 107 (1968b).

Distribution: Bioko, Cameroon, Seychelles (Mahé).

**Oleandra distenta** *Kunze* in Botanische Zeitung (Berlin) 9,19: 347 (9 May 1851b).
Type: 'Scandens in rupium fissuris ad Macalisberg, Africae australi-orientalis', *C.L.P. Zeyher s.n*. (LZ†, holo.; BM, ?iso.).

*Polypodium articulatum* Juss. ex Poir. in Encyclopedie méthodique, Botanique 5: 514 (9 Jan. 1804).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19731.2!, lecto.), designated by Pichi Sermolli (1965: 757); (P00064985, isolecto.).

*Aspidium articulatum* (Juss. ex Poir.) Willd., Species plantarum, edn 4, 5,1: 212 (25–27 Jun. 1810), non Sw. (1801: 30).

*O. articulata* sensu Hook. & Baker, Synopsis filicum 7: 302, 303 (4 Oct. 1867c), non (Sw.) C.Presl (1836).

*O. densifrons* Kunze in Botanische Zeitung (Berlin) 9,19: 347 (9 May 1851b).
Type: 'Portus Natalensis, inter Omfondi et Tagela, locis subumbrosis, aquam stillantibus', *W. Gueinzius s.n.* (LZ†, holo.); Port Natal', *W. Gueinzius s.n.* (B20 0130204, lecto.), designated by Pichi Sermolli (1965: 759).

*O. africana* Bonap. in Notes Ptéridologiques 14: 257 (23 Nov. 1923b), nom. nov. for *Aspidium articulatum* (Juss. ex Poir.) Willd. (1810: 212), non Sw. (1801: 30).
Type: As for *Aspidium articulatum* (Juss. ex Poir.) Willd.

*O. madagascarica* Bonap. in Notes Ptéridologiques 14: 371, 372 (23 Nov. 1923c).
Type: 'Madagascar, Lac Alaotra. Imerimandroso. Ilot Anosy. Dans une grotte. Le 30 juin 1921', "Imerinandroso (Lac Alaotra, ilot d'Anosy) 30.6.1921 Dans une grotte", *R. Decary 534* (P00477773!, fertile, lecto.), designated by Pichi Sermolli (1965: 760).

*O. distenta* Kunze var. *madagascarica* (Bonap.) Tardieu in Notulae Systematicae (Paris) 15,2: 177 (Apr. 1956d).

*O. distenta* Kunze var. *hirsuta* Tardieu in Notulae Systematicae (Paris) 14,4: 332, 333 (1953a).
Type: "Côte d'Ivoire: plateau foresté de Bingerville. Epiphyte sur *Elaeis guineensis* Jacq., 29 mai 1937", *R. Portères 1995* (P, holo.).

*O. distenta* Kunze var. *villosa* Tardieu in Notulae Systematicae (Paris) 14,4: 333 (1953a), error for var. *hirsuta*.
Type: Côte d'Ivoire. Plateau foresté de Bingerville, *R. Portères s.n.* (P00483342!, holo.).

*O. annetii* Tardieu var. *hirsuta* Tardieu in Notulae Systematicae (Paris) 14,4: 333 (1953b).
Type: 'Côte d'Ivoire, plateau de Bingerville', *R. Portères 1995* (P, holo.).

*O. neriiformis* sensu Hook. & Baker, Synopsis filicum 7: 302 (4 Oct. 1867c), non Cav. (1799: 115).

*O. nodosa* sensu Kuhn, Filices africanae: 145 (Oct. 1868).
Note: the typification of *Aspidium articulatum* Sw. (= *Oleandra articulata* (Sw.) C.Presl) is discussed by Joncheere (1969: 538–541).

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Grande Comore), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Oleandra ejurana** *C.D.Adams* in Annals and Magazine of Natural History, ser. 12, 7: 873, 874, pl. 28 (1954).
Type: 'Gold Coast: Ashanti: Mampong District; Ejura scarp, ± 300 m., 31 March 1954', *C.D. Adams GC4561* (BM, holo.; GC, K, P00064989, iso.).

Distribution: Ghana.

**Oleandra welwitschii** *(Baker) Pic.Serm*. in Webbia 20,2: 764 (1965).

*O. articulata* 'Cav.' var. *welwitschii* Baker in Synopsis filicum 7: 303 (4 Oct. 1867e).
Type: "Iter Angolense, Reg. IIIa sup. 3800–5500 p. alt., (Dist. Huilla), Habit. rarior in sylvis agri Lopollensis, truncos vetustos arborum mire decorans, c. fr. Febr. 1860", *F.M.J. Welwitsch 188* (K000435692, holo.; BM, LISC, iso.).

*O. distenta* Kunze var. *welwitschii* (Baker) Kornaś, Distribution and ecology of the pteridophytes of Zambia: 113, fig. 76b (1979).

Distribution: Angola, Congo, DRC.

## PSAMMIOSORUS

**Psammiosorus** *C.Chr.* in Dansk Botanisk Arkiv 7: 73, pl. 24 (Oct. 1932b). Type: *Psammiosorus paucivenius* C.Chr.

**Psammiosorus paucivenius** *C.Chr.* in Dansk Botanisk Arkiv 7: 73, pl. 24 (Oct. 1932b).
Type: Madagascar. 'Sambirano', *J.T. Last s.n.* (K000435678, K000435679, holo.).

Distribution: Madagascar.

# PARKERIACEAE

**Parkeriaceae** *Hook.*, Exotic flora 2,20: pl. 147 (Mar. 1825), nom. rej. in favour of Adiantaceae. Type: *Parkeria* Hook. (now *Ceratopteris* Brongn.).
Note: the use of the family name is discussed by Pichi Sermolli (1970b: 252).

*Acrostichaceae* Mett. ex A.B.Frank in Synopsis der Pflanzenkunde, edn 2, 3: 1453, 1458 (Mar. 1877), nom. rej. in favour of Adiantaceae. Type: *Acrostichum* L., p.p.
Note: the name is discussed by Pichi Sermolli (28 Sep. 1970b: 227).

*Ceratopteridaceae* Underw., Our native ferns and their allies, with synoptical descriptions of the American Pteridophyta north of Mexico, edn 6: 78 (Jul.–Aug. 1900). Type: *Ceratopteris* Brongn.

## ACROSTICHUM

**Acrostichum** *L.*, Species plantarum 2: 1067–1072 (1 May 1753). Lectotype: *Acrostichum aureum* L., designated by Mirbel (1816: 244).

*Chrysodium* Fée, Mémoires sur la famille des fougères 2: 22, 97 (1845a), nom. superfl. [McNeill *et al.* (2006) Art. 52.1]. Type: *Chrysodium aureum* (L.) Mett.; *Acrostichum aureum* L.

**Acrostichum aureum** *L.*, Species plantarum 2: 1069 (1 May 1753).
Provenance: "Habitat in Jamaicae, Dominicae humentibus". Lectotype: Herb. Clifford: 475, *Acrostichum* 1 (BM000647610), designated by Schelpe (1969b: 45).

*Chrysodium aureum* (L.) Mett., Filices horti botanici lipsiensis: 21 (May–Jun. 1856a).

*A. inaequale* Willd., Species plantarum, edn 4, 5,1: 117 (25–27 Jun. 1810).
Type: 'Habitat in India orientali', *Klein* (864). (B-W 19542-01 0, may be eligible as type).

*A. guineense* Gand. in Bulletin de la Société Botanique de France 66: 305 (1919).
Type: 'Africa tropica occid., in insula Principe', *F. Quintas 1* (not located).

Chromosome number: n = 30 (Manton 1959: 78); tetraploid, 2n = 120 (Roux 1993b: 75).

Distribution: Angola, Bioko, Cameroon, Côte d'Ivoire, Equatorial Guinea, Gabon, Ghana, Guinea-Bissau, Liberia, Madagascar, Mauritius, Nigeria, Pemba Isl., Princile, Réunion, São Tomé, Senegal, Sierra Leone, South Africa, Zanzibar.

**Acrostichum speciosum** *Willd.*, Species plantarum, edn 4, 5,1: 117 (25–27 Jun. 1810).
Type: "Habitat in India orientali", *H. Klein s.n.* (B-W 19541!, lecto.).

Distribution: Comoro Isl. (Anjouan, Mayotte), Madagascar, Mauritius, Seychelles.

## CERATOPTERIS

**Ceratopteris** *Brongn*. in Bulletin de la Société Philomatique de Paris, sér. 3, 1821: 186 (1821). Type: *Ceratopteris thalictroides* (L.) Brongn.; *Acrostichum thalictroides* L.

*Parkeria* Hook., Exotic flora 2,20: pl. 147 (Mar. 1825).

**Ceratopteris thalictroides** *(L.) Brongn*. in Bulletin de la Société Philomatique de Paris, sér. 3, 1821: 186, t. 3, 4 (1821).

*Acrostichum thalictroides* L., Species plantarum 2: 1070 (1 May 1753).
Provenance: 'Habitat in Zeylonae aquosis'. Lectotype: Herb. Hermann 3: 42, No. 377 BM000594684), designated by Pichi Sermolli (1957: 650).

*Pteris thalictroides* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 65 (1801).

*P. cornuta* P.Beauv., Flore d'Oware et de Bénin 1,7: 63, pl. 37, fig. 1 (Sep. 1806).
Type: Nigeria, Oware, *A.M.F.J. de Palisot de Beauvois s.n.* (P00466523!, holo.).

*C. cornuta* (P.Beauv.) Lepr. in Annales des Sciences Naturelles 19: 103, t. 4A (1830).

*C. thalictroides* (L.) Brongn. var. *cornuta* (P.Beauv.) Schelpe in Contributions from the Bolus Herbarium 1: 47 (17 Dec. 1969b).

*C. gaudichaudii* Brongn. in Bulletin de la Société Philomatique de Paris, sér. 3, 1821: 187 (1821).

Distribution: Angola, Burkina Faso, Burundi, Cameroon, Cape Verde Isl., Congo, Cote d'Ivoire, Ethiopia, Gabon, Ghana, Guinea-Bissau, Kenya, Liberia, Madagascar, Mozambique, Nigeria, Senegal, Seychelles (Ile aux Cerfs, Mahé), Sierra Leone, Seychelles, Socotra, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

# POLYPODIACEAE

**Polypodiaceae** *J.Presl & C.Presl*, Deliciae pragenses 1: 159 (Jul. 1822). Type: *Polypodium* L.

*Polypodiaceae J.Presl & C.Presl* subtr. *Polypodieae,* O prirozenosti rostlin, aneb rostlinár 1: 272 (1820). Type: *Polyodium* L.

*Filicaceae* L. tr. *Grammitideae* C.Presl, Tentamen pteridographiae: 205 (Oct. 1836), as '*Grammitaceae*'. Type: *Grammitis* Sw.

*Grammitidaceae* Newman, A history of British ferns: 7 (1–5 Feb. 1840), as '*Grammitideae*'. Type: *Grammitis* Sw.

*Polypodiaceae J.Presl & C.Presl* subfam. *Platycerioideae* B.K.Nayar in Taxon 19,2: 233 (Apr. 1970). Type: *Platycerium* Desv.

*Platyceriaceae* Ching in Acta Phytotaxonomica Sinica 16,3: 18 (Aug. 1978a). Type: *Platycerium* Desv.

*Polypodiaceae J.Presl & C.Presl* subfam. *Microsorioideae* B.K.Nayar in Taxon 19,2: 233, 234 (Apr. 1970). Type: *Microsorum* Link.

*Polypodiaceae J.Presl & C.Presl* tr. *Microsoreae* V.N.Tu in Novitates Systematicae Plantarum Vascularium (Novosti sistematiki vysshikh i nizshikh rastenii) 18: 18, 19 (1981). Type: *Microsorum* Link.

*Polypodiaceae J.Presl & C.Presl* subfam. *Pleopeltidoideae* B.K.Nayar in Taxon 19,2: 234 (Apr. 1970). Type: *Pleopeltis* Humb. & Bonpl. ex Willd.

*Loxogrammaceae* Ching ex Pic.Serm. in Webbia 29,1: 11 [1974] (10 Feb. 1975a). Type: *Loxogramme* (Blume) C.Presl; *Anthrophyum* Kaulf. sect. *Loxogramme* Blume.

*Polypodiaceae J.Presl & C.Presl* tr. *Loxogrammeae* (Ching ex Pic.Serm.) R.M.Tryon & A.F.Tryon in Rhodora 84: 129 (1982).

*Polypodiaceae J.Presl & C.Presl* subfam. *Drynarioideae* Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 156 (30 Jul. 1975). Type: *Drynaria* J.Sm.

*Drynariaceae* Ching in Acta Phytotaxonomica Sinica 16,4: 19 (Nov. 1978b).

## BELVISIA

**Belvisia** *Mirb*. in Histoire naturelle, générale et particulière, des plantes 4: 65 (1803). Lectotype: *Belvisia spicata* (L.f.) Mirb. ex Copel.; *Acrostichum spicatum* L.f., designated by Becherer (1936: 139).

*Hymenolepis* Kaulf., Enumeratio filicum: 146, pl. 1, fig. 9 (1824), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Cassini (1817: 138). Type: *Hymenolepis ophioglossoides* Kaulf.; now *Belvisia spicata* (L.f.) Mirb. ex Copel.

*Hyalolepis* Kunze in Linnaea 23: 258 (1850), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non DC (Asteraceae) (1838: 149). Type: *Hyalolepis ophioglossoides* (Kaulf.) Kunze (= *Belvisia spicata* (L.f.) Copel.).

**Belvisia spicata** *(L.f.) Mirb. ex Copel*., Genera filicum: 192 (1947).

*Acrostichum spicatum* L.f., Supplementum plantarum: 444, 445 (Apr. 1782).
Type: 'Habitat in Isle de France', *P. Sonnerat* (per *A. Thouin*) *s.n.* (UPS, ?holo.; C-Herb. Vahl, SBT, P00482674!, iso.).

*Schizaea spicata* (L.f.) Sm. in Mémoires de l'Academie Royale des Sciences de Turin 5: 419 (1793).

*Onoclea spicata* (L.f.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1801,2: 299 (1803).

*Lomaria spicata* (L.f.) Willd., Species plantarum, edn 4, 5,1: 289 (25–27 Jun. 1810).

*Gymnopteris spicata* (L.f.) C.Presl, Tentamen pteridographiae: 244 (Oct. 1836).

*Hymenolepis spicata* (L.f.) C.Presl, Epimeliae botanicae: 159 (1851).

*Taenitis spicata* (L.f.) Mett. ex Miq. in Annales Musei Botanici Lugduno-Batavi 4: 173 (1868).

*Macroplethus spicatus* (L.f.) Tagawa in Acta Phytotaxonomica et Geobotanica 11,3: 235 (1942).

*H. spicata* (L.f.) C.Presl var. *occultivenia* C.Chr. in Dansk Botanisk Arkiv 6,3: 57 (1929).
Type: 'Madagascar: Moramanga', *B.T. Palm & K.R. Afzelius s.n*. (BM, syn.; C, S, isosyn.); 'Betsitra', *Ch. d'Alleizette 117* (P, syn.); Antanarivo, *W. Pool s.n*. (K, syn.); Analamogobi, *Meller s.n*. (K, syn.).

*H. spicata* (L.f.) C.Presl var. *usambarensis* C.Chr. in Dansk Botanisk Arkiv 6,3: 57 (1929).
Type: 'East-Africa: Usambara', *C. Holst 7485* (B20 0076982, syn.); 'Usambara', *C. Holst 9095* (B20 076981, syn.; BM, P, isosyn.).

Distribution: Bioko, Cameroon, Comoro Isl., Congo, Coté d'Ivoire, DRC, Gabon, Guinea, Liberia, Madagascar, Malawi, Mozambique, Réunion, São Tomé, Seychelles, South Africa, Tanzania, Zimbabwe.

## CERADENIA

**Ceradenia** *L.E.Bishop* in American Fern Journal 78,1: 2, 4, fig. 1 (1988). Type: *Ceradenia curvata* (Sw.) L.E.Bishop; *Polypodium curvatum* Sw.

**Ceradenia alboglandulosa** *(Bonap.) Parris* in Kew Bulletin 57,2: 424 (2002).

*Polypodium alboglandulosum* Bonap. in Notes Ptéridologiques 10: 186, 187 (18 Mar. 1920e).
Type: 'Madagascar, région floristique du Centre. Massif de Manongarivo. Vers 1 600 mètres d'altitude. Cime à lichens. Bois très secs. Sur les troncs. Mai 1909', *H. Perrier de la Bâthie 7443* (BM, P00114143, P00462099, P00462100, syn.); 'Madagascar. Massif de Manongarivo. Vers 1 200 mètres d'altitude. Bois secs. Sur les troncs, parmi la mousse. Mai 1909', *H. Perrier de la Bâthie 7471*, p.p. (P00114142, syn.).

*Ctenopteris alboglandulosa* (Bonap.) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

Distribution: Madagascar.

**Ceradenia argyrata** *(Bory ex Willd.) Parris* in Kew Bulletin 57,2: 424 (2002).

*Polypodium argyratum* Bory ex Willd., Species plantarum, edn 4, 5,1: 175, 176 (25–27 Jun. 1810).
Type: "Habitat in altis montibus insulae Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19660!, holo.).

*Marginaria argyrata* (Bory ex Willd.) Bory, Dictionnaire classique d'histoire naturelle 10: 177 (5 Jul. 1826).

*Ctenopteris argyrata* (Bory ex Willd.) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

*Grammitis argyrata* (Bory ex Willd.) C.V.Morton in Contributions from the United States National Herbarium 38,6: 255 (1973).

Distribution: Réunion.

**Ceradenia comorensis** *(Baker) Parris* in Kew Bulletin 57,2: 424 (2002).

*Polypodium comorense* Baker in Journal of Botany, British and Foreign 15: 72 (1876a).
Type: 'Ad insulam Johanna, alt. 3000–5000 pedes, ad arbores', *J.M. Hildebrandt 1788* (K000435903, holo.; B20 0122259, B20 0122260, BM000585377, iso.).

*Ctenopteris devoluta* (Baker) Tardieu var. *comorense* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 88 (Apr. 1960a).

Distribution: Comoro Isl.

**Ceradenia deltodon** *(Baker) Parris* in Kew Bulletin 57,2: 424 (2002).

*Polypodium deltodon* Baker in Journal of the Linnean Society, Botany 15: 419 (1876b).
Type: Madagascar, April 1876, *W. Pool s.n*. (K000227540, holo.).

*Ctenopteris deltodon* (Baker) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

*P. perludens* Baker in Journal of the Linnean Society. Botany 16: 204 (1877a).
Type: Madagascar, Antananarivo, March 1877, *H. Gilpin s.n*. (K000227539, holo.).

Distribution: Madagascar.

**Ceradenia jungermannioides** *(Klotzsch) L.E.Bishop* in American Fern Journal 78,1: 4 (1988).

*Polypodium jungermannioides* Klotzsch in Linnaea 20: 373 (1847).
Type: 'Ad truncos arborum in sylvis humidis (reg. alp.). Merida Columbiae', *J.W.K. Moritz 312* (not located).

*Ctenopteris punctata* F.Ballard in Contributions of the Gray Herbarium of Harvard University 177: 93 (23 Dec. 1955c).
Type: 'Liberia: Sinoe Co.: Butaw, on high tree, March 17, 1948', *J.T. Baldwin 11493* (K000435900, holo.).

Distribution: Liberia.

**Ceradenia leucosora** *(Bojer ex Hook.) Parris* in Kew Bulletin 57,2: 424 (2002).

*Polypodium leucosorum* Bojer, Hortus mauritianus: 417 (1837), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Ile Maurice', *W. Bojer s.n*. (?P, holo.; K000435902, iso.).

*P. leucosorum* Bojer ex Hook. in Hooker's Icones Plantarum 10: pls 942, 943 (1854b).
Type: 'Bourbon', *D. Carmichael s.n*. (K, lecto.), designated by Parris (2002: 424); 'Old mossy trees, forests of Nouvelle Decouverte and Grand Port, Mauritius', *L. Bouton s.n.* (not located).

*Ctenopteris leucosora* (Bojer ex Hook.) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

*P. comptoniifolium* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 316 (1811), as '*comptoniaefolium*'.
Type: 'Habitat in insula Borboniae', *A.N. Desvaux s.n*. (P00462105, holo.).

*P. argyratum* Bory ex Willd var. *comptoniifolium* (Desv.) Mett. ex Kuhn, Filices africanae: 146 (Oct. 1868), as '*comptoniaefolia*'.

*P. crassifrons* Cordem., Flore de l'Ile de la Réunion: 86 (1895), non Baker (1867f: 325).
Type: Réunion, *H.J. de Cordemoy 9* (K000435902, holo.).

*P. cordemoyii* C.Chr., Index filicum: 518 (20 Aug. 1906), nom. nov. for *Polypodium crassifrons* Cordem. (1895: 86), non Baker (1867f: 325).

Distribution: Mauritius, Réunion.

**Ceradenia sechellarum** *(Baker) Parris* in Kew Bulletin 57,2: 425 (2002).

*Polypodium sechellarum* Baker in Synopsis filicum, edn 2: 508 (Oct. 1874a).
Type: 'Mahé, Seychelles', *J. Horne 194* (K, lecto.), designated by Morton (1970b: 124); 'Mauritius', *A.M. Barkly s.n.* (K?, syn.).

*Grammitis sechellarum* (Baker) C.V.Morton in American Fern Journal 60,3: 124 (16 Sep. 1970b).

*P. albobrunneum* Baker, Flora of Mauritius and the Seychelles: 505 (2 Aug. 1877b).
Type: 'Seychelles, in the hill-woods of Mahé', *J. Horne 682* (K000435905, lecto.), designated by Parris (2002: 425); 'Seychelles, in the hill-woods of Mahé', *J. Horne 681* (K000435904, syn.).

*Ctenopteris albobrunnea* (Baker) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

*Xiphopteris albobrunnea* (Baker) Schelpe in Contributions from the Bolus Herbarium 1: 7 (17 Dec. 1969b).

Distribution: Seychelles, Tanzania.

## COCHLIDIUM

**Cochlidium** *Kaulf.* in Berlinisches Jahrbuch für die Pharmacie und für die damit verbundenen Wissenschaften 21: 36 (1820). Type: *Cochlidium graminoides* (Sw.) Kaulf.; *Acrostichum graminoides* Sw.

*Xiphopteris* Kaulf. in Berlinisches Jahrbuch für die Pharmacie und für die damit verbundenen Wissenschaften 21: 35 (1820). Lectotype: *Xiphopteris serrulata* (Sw.) Kaulf.; *Acrostichum serrulatum* Sw., designated by Smith (1875: 179).

*Micropteris* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 217 (Jul. 1827). Lectotype: *Micropteris serrulata* (Sw.) Desv.; *Acrostichum serrulatum* Sw., designated by Copeland (1947: 215).

**Cochlidium serrulatum** *(Sw.) L.E.Bishop* in American Fern Journal 68,3: 80 (1978).

*Acrostichum serrulatum* Sw., Nova genera & species plantarum. Prodromus: 128 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n.* (S, holo.; US, iso.).

*Grammitis serrulata* (Sw.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 18 (1801).

*Gymnopteris serrulata* (Sw.) Bernh. in Neues Journal für die Botanik 1,2: 48 [1805] (1806).

*Asplenium serrulatum* (Sw.) Sw., Flora Indiae occidentalis 3: 1607 (Oct. 1806a).

*Micropteris serrulata* (Sw.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 217 (Jul. 1827).

*Xiphopteris serrulata* (Sw.) Kaulf., Das Wesen der Farrenkräuter: 87 (1827).

*Polypodium serrulatum* (Sw.) Mett., Filices horti botanici lipsiensis: 30 (May–Jun. 1856a), hom. illeg., non Sw. (1801: 25).

*M. orientalis* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 217 (Jul. 1827).
Type: 'Crescit in locis muscosis insulae Mascareigne', *sine coll. s.n.* (?P, holo.).

*P. duale* Maxon in Contributions from the United States National Herbarium 16: 61 (19 Jun. 1912), nom. nov. for *Acrostichum serrulatum* Sw. (1788: 128).

*X. extensa* Fée, Histoire des fougères et des Lycopodiacées des Antilles: 14 (1866b).
Type: 'Habitat in Guadalupa', *F.L. l'Herminier 1864* (not located).

Distribution: Annobon, Bioko, Coté d'Ivoire, Equatorial Guinea, Gabon, Guinea, Liberia, Madagasar, Sierra Leone, Zimbabwe.

## CTENOPTERIS

**Ctenopteris** *Blume ex Kunze* in Botanische Zeitung (Berlin) 1846: 425 (1846b). Type: *Ctenopteris venulosa* (Blume) Blume ex Kunze (*Polypodium venulosum* Blume).

**Ctenopteris parvula** *(Bory ex Willd.) J.Sm.*, Historia filicum: 185 (Oct.–Dec. 1875).

*Polypodium parvulum* Bory ex Willd., Species plantarum, edn 4, 5,1: 182 (25–27 Jun. 1810).
Type: 'Habitat in arboribus insulae Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19667-01 0, holo.).

*Grammitis parvula* (Bory) C.V.Morton in Contributions from the United States National Herbarium 38,6: 261 (1973).

Distribution: Comoro Isl., Madagascar, Mauritius, Réunion.

**Ctenopteris zenkeri** *(Hieron.) Tardieu* in Flore de Cameroun, Pteridophyta 3: 327 (30 Nov. 1964a).

*Polypodium zenkeri* Hieron. in Botanische Jahrbücher 46,3: 385, 386 (1911).
Type: 'Kamerun: epiphytisch auf hohen Bäumen des Urwaldes bei Jaunde, 4 Aug. 1897', *G.A. Zenker 1507* (B20 0122283!, lecto.), notula by Parris (27 Febr. 2002).

*Xiphopteris zenkeri* (Hieron.) Schelpe in Contributions from the Bolus Herbarium 1: 12 (1969b).

*P. decorum* Brack. var. *excaudatum* Bonap. in Notes Ptéridologiques 4: 79, 80 (10 May 1917b).
Type: Madagascar. 'Région floristique de l'Est et du Centre. Forêt d'Analamaziatra. 800 mètres d'altitude. Epiphyte. Janvier', *H. Perrier de la Bâthie 7533* (P00114219, syn.); Madagascar. 'Région floristique di Centre. Imerina occidentale. Manankazo au Nord-Est d'Ankazobe. Vers 1 500 mètres d'altitude. Bois avec rocailles ombragées, gneiss. Novembre 1913', *H. Perrier de la Bâthie 7593* (P00465856, syn.); Madagascar. 'Région floristique du Centre. Montagnes du sambirano. Vers 1 000 mètres d'altitude. Epidendre; sur les troncs parmi la mousse. Octobre 1908.' *H. Perrier de la Bâthie 7643* (P00114198).

*P. excaudatum* (Bonap.) C.Chr. in Archives de Botanique, Bulletin Mensuel 2,12: 215 (Dec. 1928).

*C. excaudata* (Bonap.) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

Distribution: Cameroon, Madagascar.

## DRYNARIA

**Drynaria** *(Bory) J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 4: 60 (1842a), nom. cons.

*Polypodium* L. subgen. *Drynaria* Bory in Annales des Sciences Naturelles (Paris) 5: 464, 465 (1825b). Type: *Drynaria quercifolia* (L.) J.Sm.; *Polypodium quercifolum* L., typ. cons.

**Drynaria laurentii** *(H.Christ ex De Wild. & T.Durand) Hieron.* in Die Vegetation der Erde 9,2: 57, fig. 54 (Feb. 1908).

*Polypodium propinguum* Wall. ex Mett. var. *laurentii* H.Christ ex De Wild. & T.Durand in Annales du Musée du Congo (Belge). Botanique, ser. 2 1,1: 70 (1899).
Type: Zaïre, Bas-Congo, Inkisi, *É. Laurent s.n.* (BR, lecto.), designated by Roos (1985: 226); (P00266236!, isolecto.).

*P. propinguum* Wall. ex Mett. var. *intermedium* De Wild. in Annales du Musée du Congo (Belge). Botanique, ser. 5, 2: 6, t. 3 (1903).
Type: Zaire. 'Bas-Congo (région de Kisantu), 1901', *J.B. Gillet 1864* (BR, holo.); 'Madiata, 1901 et vallée de la Nsele', *R.P. Butaye & J.B. Gillet 2225 & 2282* (BR, para.).

*P. astrosorum* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 22, 23 (1909a).
Type: 'San Thomé: Monte Café et Pic de San Thomé, août–sept. 1905', *A. Chevalier 14291* (P00482684!, isosyn.).

*P. willdenowii* sensu Baker in Boletim da Sociedade Broteriana 4: 155 (1886e), as '*Willdenovii*'.

Chromosome number: n = 37 (Manton 1959: 79).

Distribution: Angola, Bioko, Burundi, Cameroon, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Tanzania, Togo, Uganda.

**Drynaria volkensii** *Hieron*. in Botanische Jahrbücher 46,3: 392 (1911).
Type: Tanzania, Kilimanjaro. "Laubshaft Murungu, 8-8-93", *G.L.A. Volkens 735* (B20 0061011!, lecto.), designated by Tardieu-Blot (1964a: 337, see Verdcourt 2001b: 12); (K000435913, isolecto.); "Ruwenzori, 7–8000 ft", *G.F.S. Schott 7993* (B20 0061010, syn.).

*D. volkensii* Hieron. in Die Vegetation der Erde 9,2: 57 (Feb. 1908), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*D. volkensii* Hieron. var. *macrosora* Hieron. in Botanische Jahrbücher 46,3: 394 (1911).
Type: 'Deutsch Ostafrika; auf einzelnen *Erythrina*-Bäumen in der Bergsteppe auf Lavastrom bei Ninagongo unweit Kissenge, in 1 800–2 000 m Höhe ü. M., 1 Okt.1907', *G.W.J. Mildbraed 1288* (B20 0061021!, lecto.).

*D. volkensii* Hieron. var. *uondensis* Fiori in Nuovo Giornale Botanica Italiano, n.s. 47: 25 (1940).
Type: Ethiopia. 'Fra Uondo e Agheresalam, Dic. 1937', *D. Saccardo s.n*. (FT, holo.).

*D. saccardoi* Cufod. in Senckenbergiana Biologica 50,3/4: 256, 257, t. 12, fig. 12 (15 Aug. 1969), as '*saccardi*'.
Type: Ethiopia. 'Sidamo, Bera, 1.3.55', *Kuls 215* (FR, holo.).

Distribution: Bioko, Burundi, Cameroon, Congo, DRC, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Somalia, Sudan, Tanzania, Uganda, Zambia.

**Drynaria willdenowii** *(Bory) T.Moore*, Index filicum 1: lxxix (1857e), as '*Willdenovii*'.

*Polypodium willdenowii* Bory in Annales des Sciences Naturelles (Paris) 5: 468, t. 13 (1825b).
Type: 'Ile de France, Mt. Pouce', *J.B.G.M. Bory de St.-Vincent s.n*. (P00266223!, holo.).

*D. propingua* Wall. ex J.Sm. var. *comorensis* Hieron. ex Engl. in Die Vegetation der Erde 9,2: 56, 57 (Feb. 1908), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)].
Type: "In. Comores", *L.H. Boivin s.n*. (B20 0061040!, syn.); "Comoren", *L. Humblot 392* (B20 0061041!, syn.).

*Phymatodes thouarsii* Willd. ex C.Presl, Tentamen pteridographiae: 198 (Oct. 1836).

*Polypodium thouarsii* Willd. ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 120 (1856b).
Type: "Habitat in Madagascaria", *L.-M.A. du Petit-Thouars s.n*. (B-W 19643-01 0!, holo.).

Distribution: Comoro Isl. (Anjouan, Grande Comore) Madagascar, Mauritius, Réunion.

## ENTEROSORA

**Enterosora** *Baker* in Timehri 5: 218 (1886g). Type: *Enterosora campbellii* Baker.

**Enterosora barbatula** *(Baker) Parris* in Kew Bulletin 57,2: 426 (2002).

*Polypodium barbatulum* Baker in Synopsis filicum 8: 323 (8 Nov. 1867f).
Type: 'Bourbon', *I.B. Balfour s.n*. (K000227547, lecto.), designated by Schelpe (1969b: 5).

*Grammitis barbatula* (Baker) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 240 (1941a), as '*barbata*'.

*P. beaumontii* Leperv. ex Kuhn, Filices africanae: 146, 209, 210 (Oct. 1868).
Type: 'Bourbon, Mont de Brulé, 1862', *E. Vieillard s.n*. (B20 0122288!, holo.).

*P. hookeri* Cordem., Flore de l'Ile de la Réunion: 84 (1895).
Type: 'Plaines des Palmistes et des Cafres, sur les vieux troncs d'arbes', *sine coll. s.n*. (not located).

*P. poolii* Baker in Journal of the Linnean Society, Botany 15: 419 (1876b).
Type: Madagascar, *W. Pool s.n*. (K000227550, holo.).

*G. poolii* (Baker) Copel., Genera filicum: 211 (1947), as '*poolei*'.

*P. uluguruense* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 932, 933 (1933).
Type: Tanzania. 'Uluguru-Gebirge, NW, Parata Pass, ± 1 910 m. Nebelwald, an Bäumen vereinzelt, 18 Oct. 1932', *H.J. Schlieben 2827* (B20 0051632, lecto.), designated by Parris (2002: 426); (B20 0051631!, B20 0122285!, B20 0122286!, BM000585256, BR, 2 sheets, M0005227, isolecto.).

*G. uluguruensis* (Reimers) Copel. in The Philippine Journal of Science 80,2: 135 [1951] (1952).

Distribution: Madagascar, Mauritius, Réunion, Tanzania.

**Enterosora sprucei** *(Hook.) Parris* in Kew Bulletin 57,2: 426 (2002).

*Polypodium sprucei* Hook., A second century of ferns: pl. 10 [1860] (1861).
Type: 'Near Tarapota, Eastern Peru', *R. Spruce 4746* (K, lecto.), designated by Parris (2002: 426); (P, US, isolecto.).

*Grammitis sprucei* (Hook.) J.Sm., Historia filicum: 181 (Oct.–Dec. 1875).

*P. gilpinae* Baker in Journal of the Linnean Society, Botany 16: 204 (1877a).
Type: Madagascar, Antananarivo, *H. Gilpin s.n*. (K000227552, holo.).

*G. gilpinae* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 79 (Apr. 1960a).

*E. gilpinae* (Baker) L.E.Bishop, in Bishop & Smith in Systematic Botany 17,3: 359, fig. 3, t. c–e (1992).

*P. microphyllum* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 299, 300 (1897).
Type: Madagascar, Forest of Ambohimitombo, province of Tanala, alt. 1450–1560 ft.', *C.I. Forsyth-Major 477* (K000227551, holo.; B20 0122222, BM000585326, BM000585330, iso.).

*P. pseudopoolii* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 934, 935 (1933).
Type: Tanganyika. 'Uluguru-Gebirge, NW, Parata Pass, Nebelwald, ± 1 910 m, an Bäumen, 18 Okt. 1932', *H.J. Schlieben 2827a* (B20 0051629, holo.).

*P. poolii* sensu C.Chr. in Dansk Botanisk Arkiv 7: 151, pl. 56, figs 9, 10 (1932b), non Baker (1876b: 419).

*G. poolii* sensu Copel. in The Philippine Journal of Science 80,2: 123, fig. 12 [1951] (1952), non *G. poolii* (Baker) Copel. (1947: 211).

Distribution: Madagascar, Tanzania.

## GRAMMITIS

**Grammitis** *Sw.* in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 3, 17 (1801). Lectotype: *Grammitis marginella* (Sw.) Sw.; *Polypodium marginellum* Sw., designated by Christensen (1906: XLIX).

**Grammitis copelandii** *Tardieu* in Notulae Systematicae (Paris) 15,4: 421, 423 figs 5–8 (Oct. 1959b).
Type: 'Pentes occidentales du massif du Marojejy, à l'Ouest de la rivière Manantenina, affluent de la Lokoho, 1 500–1 700 m., sur gneiss et quartzite', *H. Humbert 22557* (P, holo.).

Distribution: Madagascar.

**Grammitis cryptophlebia** *(Baker) Copel*. in The Philippine Journal of Science 80,2: 133 [Jun. 1951] (1952).

*Polypodium cryptophlebium* Baker in Journal of Botany, British and Foreign 1880,9: 370 (1880b).
Type: Madagascar. 'Between Tamatave and Antananarivo'. *L. Kitching s.n*. (K000227548, holo.).

*P. rutenbergii* Luerss. in Adhandlungen herausgegeben vom Naturwissenschaftlichen Vereine zu Bremen 7: 48, pl. 1, figs 1, 2 (1882).
Type: 'Wald von Ambatondrazaka, zwischen Moosen, 6. Decbr. 1877', *D.C. Rutenberg 9672* (P00114009, holo.; B, drawing!, BREM?, L?, iso.).

*P. molleri* Baker in Boletim da Sociedade Broteriana 4: 154, t. 2, fig. B (1887e).
Type: 'Pico de S. Thomé (1 900 m) ad arbores', *A. Moller s.n*., in Herb. Hort. Bot. Conimbrensis no. 51 (BM, holo.; BR, K000227546, UC, iso.).

*G. molleri* (Baker) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 40: 162 (1966).

Distribution: Kenya, Madagascar, Malawi, Mozambique, São Tomé, Tanzania, Zimbabwe.

**Grammitis ebenina** *(Maxon) Tardieu* in Mémoires de l'Institut Français d'Afrique Noire 28: 211 (1953d).

*Polypodium ebeninum* Maxon in Bulletin of the Torrey Botanical Club 42: 224, 225 (1915).
Type: 'St Helena, 1885', *W.H. King s.n*. (US370659, holo.).

*G. marginella* sensu Roxb. in Tracts relative to the island of St Helena: 310 (Jan. 1816), non (Sw.) Sw. (1801: 17).

*G. linearis* sensu Bory in Voyage autour du monde Cryptogamie 6: 257 (Nov. 1829), non Sw. (1801: 17).

Distribution: St Helena.

**Grammitis holophlebia** *(Baker) Copel*. in The Philippine Journal of Science 80,2: 136 [Jun. 1951] (1952).

*Polypodium holophlebium* Baker in Journal of Botany, British and Foreign 1880,9: 370 (1880b).
Type: Madagascar. 'Tanala', *L. Kitching s.n*. (K000227549, holo.).

*P. tanalense* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 300 (1897).
Type: 'Madagascar. Forest of Ambohimitombo, province of Tanala', *C.I. Forsyth-Major 185* (K000435889, holo.).

Distribution: Madagascar.

**Grammitis kyimbilensis** *(Brause ex Brause & Hieron.) Copel*. in The Philippine Journal of Science 80,2: 257, fig. 104 [1951] (1952).

*G. pseudomarginella* (Bonap.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 241 (1941a).

*Polypodium kyimbilense* Brause ex Brause & Hieron. in Botanische Jahrbücher 53: 431, 432 (1915).
Type: 'Deutsch-Ostafrika, Kyimbila, Regenwald, 1 700 bis 2 200 m ü. M., 13 Dez. 1911', *A. Stolz 1028* (B20 0087509, lecto.), designated by Parris (2002: 427); (B20 0087508, B20 0087510, BM000585278, K000435893, M0005255, WAG, Z000002160, isolecto.).

*P. pseudomarginellum* Bonap. in Notes Ptéridologiques 10: 190, 191 (18 Mar. 1920e).
Type: Madagascar. 'Région floristiques du Centre. Ankaiziu. Entre 1 200 et 2 000 mètres d'altitude. Epidendre parmi les mousses sur les troncs. 1908', *H. Perrier de la Bâthie 7469* (P00113945, P00113946, syn.); Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 1 200 mètres d'altitude. Bois secs. Sur les troncs parmi la mousse. Mai 1909', *H. Perrier de la Bâthie 7471, p.p*. (P00113947, syn.); Madagascar. 'Région floristique du Centre. Environs d'Analamazoatra. Vers 900 mètres d'altitude. Janvier', *H. Perrier de la Bâthie 7525* (P00113949, syn.); Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Silve à lichens vers 1200 mètres d'altitude. Mai 1909', *H. Perrier de la Bâthie 7705* (BM, P00113950, US, syn.).

Distribution: Madagascar, Tanzania.

**Grammitis magellanica** *Desv*. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 313 (1811).
Type: 'Habitat ad Fretum magellanicum', *sine coll. s.n.* (P, holo.).

*Asplenium angustifolium* Jacq., Collectanea 1: 121 (1786).
Type: 'Ad Fretum Magellanicum', *sine coll. s.n*. (not located).

Distribution: Amsterdam Isl., Kerguelen Isl., Marion Isl., Prince Edward Isl.

**Grammitis melanoloma** *(Cordem.) Tardieu* in Notulae Systematicae (Paris) 15,4: 423, t. 1 (Oct. 1959b).

*Polypodium melanoloma* Cordem., Flore de l'Ile de la Réunion: 83, 84 (1895).
Type: unknown to current author.

Distribution: Réunion.

**Grammitis microglossa** *(C.Chr.) Ching* in Bulletin of the Fan Memorial Institute of Biology 10,5: 240 (1941a).

*Polypodium microglossum* C.Chr. in Dansk Botanisk Arkiv 7: 149, pl. 56, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo, cime très sêche, vers 1 200 m. d'alt. parmi les lichens, Mai 1909', *H. Perrier de la Bâthie 7474* (P00114011, holo.; P00114012, P00462084, iso.).

Distribution: Madagascar.

**Grammitis nanodes** *(Peter) Ching* in Bulletin of the Fan Memorial Institute of Biology 10,5: 241 (1941a).

*Polypodium nanodes* Peter in Feddes Repertorium, Beiheft 40,1: 27, Anhang: 3, t. 1, figs 7–9 (1929).
Type: 'Deutsch-Ostafrika, W Usambara: Uw auf d. Kamm des Bergzuges Kisimba üb. Mazumbai, 1900', *A. Peter 16492* (K000435892, UC, iso.).

Distribution: Kenya, Malawi, Mozambique, Tanzania, Zimbabwe.

**Grammitis nigrocincta** *Alston* in Bulletin de l'Insitut Française d'Afrique Noire, ser. A, 21: 444 (1959a).
Type: 'Principe. Western face of the Pico', *Monod 12162* (BM, holo.; COI, iso.).

Distribution: Príncipe.

**Grammitis obtusa** *Willd. ex Kaulf.*, Enumeratio filicum: 84, 85 (Oct. 1824).
Type: "Habitat in insula Mauritii", *L.-M.A. du Petit-Thouars s.n*. (B-W 19595!, holo.).

*Polypodium obtusum* (Willd. ex Kaulf.) Kuhn, Filices africanae: 150 (Oct. 1868).

*P. furcatum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 230 (Jul. 1827), non Sw. (1801: 28).
Type: Cites *Polypodium multifidum* Bory, non Jacq. [1789] (1791: 187).

*P. multifidum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 193, t. 20, figs 2, 3 (Sep. 1804b).
Type: "Ile Bourbon (Mascareignes). Aux pieds de la Montées des Sueur, dans l'enclos du volcan", *Bory de St.-Vincent, J.B.G.M. s.n*. (P00462085, holo.).

Distribution: Madagascar, Mauritius, Réunion.

**Grammitis pellucidovenosa** *(Bonap.) Copel*. in The Philippine Journal of Science 80,2: 137 [1951] (1952).

*Polypodium pellucidovenosum* Bonap. in Notes Ptéridologiques 10: 189 (18 Mar. 1920e).
Type: 'Madagascar. Massif de Manongarivo. Vers 1 200 mètres d'altitude. Bois secs. Sur les troncs. Parmi les mosses. Mai 1909', *H. Perrier de la Bâthie 7471* (P00114042, P00462082, syn.); 'Madagascar. Massif de Manongarivo. Vers 1200 mètres d'altitude. Cime sèche. Silve à lichens. Mai 1909', *H. Perrier de la Bâthie 7704* (P00462083, syn.).

Distribution: Madagascar.

**Grammitis pervillei** *(Mett.) Tardieu* in Notulae Systematicae (Paris) 15,4: 424 (Oct. 1959b).

*Polypodium pervillei* Mett. ex Kuhn, Filices africanae: 150, 151 (Oct. 1868).
Type: 'Ins. Seychellae, *A. Pervillé 217* (not located).

Distribution: Seychelles.

**Grammitis poeppigiana** *(Mett.) Pic.Serm*. in Webbia 32,2: 461 (1978a), as '*poeppigana*'.

*Polypodium poeppigianum* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 37 (1856b), as '*Pöppigianum*'.
Type: 'Prom. b. spei, in fissuris rupium in fauce umbrosa montium Hott. holland', *E.F. Poeppig s.n*. (W†, missing); 'Stellenbosch, Jonkershoek, Victoria Peak', *E. Esterhuysen 29290* (BOL!, neo.), designated by Rourke & Schelpe (1978: 420); (E, K, MO, isoneo.).

*G. australis* sensu Carmich. in Transactions of the Linnean Society of London, Botany 12: 510 (1818), non R.Br. (1810: 146).

*P. australe* sensu Kuhn, Filices africanae: 146 (Oct. 1868), non (R.Br.) Mett. (1856b: 36), nom. illeg., non Fée (1852: 236).

*P. magellanicum* sensu Alston & Schelpe in Journal of South African Botany 18,4: 163, 175 (1952).

Distribution: Crozet Isl., Kerguelen Isl., Marion Isl., South Africa, St Paul.

**Grammitis pygmaea** *(Mett. ex Kuhn) Copel*. in The Philippine Journal of Science 80,2: 138 [1951] (1952).

*Polypodium pygmaeum* Mett. ex Kuhn, Filices africanae: 152 (Oct. 1868).
Type: 'Ins. Borboniae', *Buchinger Herb. s.n*. (B, unnumbered sheet!, holo.).

Distribution: Kenya, Madagascar, Mauritius, Réunion, Tanzania.

**Grammitis synsora** *(Baker) Copel*. in The Philippine Journal of Science 80,2: 137 [Jun. 1951] (1952).

*Polypodium synsorum* Baker in Journal of the Linnean Society, Botany 16: 203, 204 (1877a).
Type: 'Madagascar', *H. Gilpin s.n*. (K000435891, holo.).

Distribution: Madagascar, Tanzania.

## LELLINGERIA

**Lellingeria** *A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 76 (1991). Type: *Lellingeria apiculata* (Kunze ex Klotzsch) A.R.Sm. & R.C.Moran; *Polypodium apiculatum* Kunze ex Klotzsch.

*Polypodium* L., § *Prosechium* T.Moore, Index filicum: lxxi (1857e). Syntypes: *Lellingeria pendula* (Sw.) A.R.Sm. & R.C.Moran; *Polypodium pendulum* Sw. and *L. suspensa* (L.) A.R.Sm. & R.C.Moran; *P. suspensum* L.

**Lellingeria aethiopica** *(Pic.Serm.) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 83 (1991).

*Xiphopteris aethiopica* Pic.Serm. in Webbia 27,2: 450, 451, fig. 22 [1972] (28 Feb. 1973a).
Type: 'Ethiopia, Kaffa: Zona a sud di Bonga. In località Isheti presso Gaetà a sud di Muti ad un'ora di cammino lungo il sentiero di Deckia (7°03'N–36°08'E). Nel fondo di una piccola vale nella foresta umida montana, epifita sulla parte inferiore di un tronco orizzontale a 2–4 m. dal suolo in luogo molto ombroso ed umido. m. 1900 ca. 2.1.1967', *R.E.G. Pichi Sermolli 7121* (FI-PS 23371, holo.).

Distribution: Ethiopia.

**Lellingeria ascensionensis** *(Hieron.) Parris* in Kew Bulletin 57,2: 427, 428 (2002).

*Polypodium ascensionense* Hieron. in Hedwigia 44: 93 (1905).
Type: 'Habitat in insula Ascensionis', *J.D. Hooker s.n*. (B20 0087462, lecto.), designated by Parris (2002: 428); (CGE, K, iso.).

*Xiphopteris ascensionensis* (Hieron.) Cronk in Biological Conservation 17,3: 208 (1980), as '*ascensionense*'.

*P. trichomanoides* Sw. var. *jungermannioides* Hook., Species filicum 4,15/16: 178 (1863).
Type: Island of Ascension, summit of Green Mt, alt. 2800 ft, *J.D. Hooker s.n*. (K, lecto.), designated by Parris (2002: 427); (B20 0087462, CGE, iso.).

*P. paniusculum* Mett. ex Kuhn, Filices africanae: 151 (Oct. 1868).

*P. planiusculum* Mett. ex Kuhn var. *minor* Mett. ex Kuhn, Filices africanae: 151 (Oct. 1868).
Type: Ins. Ascension, *J.D. Hooker s.n*. (B20 0087462, lecto.), designated by Parris (2002: 428); (CGE, K, isolecto.).

Distribution: Ascension Isl.

**Lellingeria boivinii** *(Mett. ex Kuhn) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 83 (1991).

*Polypodium boivinii* Mett. ex Kuhn, Filices africanae: 146 (Oct. 1868).
Type: 'Madagascaria', *L.H. Boivin s.n*. (not located).

Distribution: Madagascar.

**Lellingeria hildebrandtii** *(Hieron.) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 84 (1991).

*Polypodium hildebrandtii* Hieron. in Hedwigia 44: 91 (1905).
Type: 'Insula Madagascaria: habitat ad arborum truncos prope Andrangolóaka haud procul ab Imerina, Nov. 1880', *J.M. Hilldebrandt s.n.* (?B, holo.).

*Xiphopteris hildebrandtii* (Hieron.) Tardieu in Notulae Systematicae (Paris) 15,4: 444 (1959d), comb. illeg. [McNeill *et al.* (2006) Art. 33.4].

Distribution: Madagascar.

**Lellingeria micropecten** *(C.Chr.) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 85 (1991).

*Polypodium oosorum* Baker var. *micropecten* C.Chr. in Dansk Botanisk Arkiv 7: 153 pl. 57, figs 18, 19 (1932b).
Type: 'Sambirano and Manngarivo', *H. Perrier de la Bâthie 7442* (P00114237, P00114238, P00114239, syn.); 'Madagascar, Montagne de Sambirano', *H. Perrier de la Bâthie 7453 bis* (P00114241, P00114242, syn.).

Distribution: Madagascar.

**Lellingeria myosuroides** (*Sw.) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 85 (1991).

*Polypodium myosuroides* Sw., Nova genera & species plantarum. Prodromus: 131 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n.* (S, holo., fragment).

*Xiphopteris myosuroides* (Sw.) Kaulf., Enumeratio filicum: 275 (Oct. 1824), as '*myosuroidis*'.

Distribution: Madagascar.

**Lellingeria oosora** *(Baker) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 85 (1991).

*Polypodium oosorum* Baker in Boletim da Sociedade Broteriana 4: 154, 155, t. 2, fig. A (1886e).
Type: 'Pico de S.Thomé (1 950 m)', *A. Moller 46* (K000435899, lecto.), designated by Parris (2002: 428); (B, BM, UC, isolecto.); "Insula de S. Tomé, Pico de S. Tomé", *A. Moller 52* (P00462107, P00462108, syn.).

*Xiphopteris oosora* (Baker) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 26 (1956a).

*Grammitis oosora* (Baker) J.E.Burrows, Southern African ferns and fern allies: 186, pl. 30.2, t. 44 (1990).

*P. newtonii* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1896: 41 (1896).
Type: 'Clarence Peak, Fernando Po, alt. 8000–9000 ft., on the stems of *Erica arborea*', *F.X.O. de A. Newton s.n.* (K?, holo.).

*Ctenopteris punctata* F.Ballard in Kew Bulletin 1955,3: 468 (20 Dec. 1955b).
Type: 'Liberia: Sinoe Co.; Butaw, on high tree, March 17, 1948.' *J.T. Baldwin 11493* (K000435900, holo.).

*X. punctata* (F.Ballard) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 26 (1956a).

Distribution: Bioko, Cameroon, Côte d'Ivoire, Gabon, Guinea, Liberia, Madagascar, Malawi, Rwanda, São Tomé, Sierra Leone, Tanzania, Zimbabwe.

**Lellingeria paucipinnata** *Parris* in Kew Bulletin 57,2: 428, fig. 1, t. E–G (2002).
Type: 'Tanzania T2 Moshi, Kilimanjaro, Kikafu R. Gorge, 2 310 m, 3 March 1997', *A. Hemp 1636* (K, holo.).

Distribution: Tanzania.

**Lellingeria rupestris** *Parris* in Kew Bulletin 57,2: 429, fig. 1, t. H–K (2002).
Type: 'Tanzania, Nguru Mts, near Muskat mission, 1 900 m, 24 Jan. 1987', *R.R. Schippers T1703* (K, holo.; WAG, iso.).

Distribution: Tanzania.

**Lellingeria stangeana** *(Pic.Serm.) A.R.Sm. & R.C.Moran* in American Fern Journal 81,3: 87 (1991).

*Xiphopteris stangeana* Pic.Serm. in Webbia 27,2: 453, 454, fig. 23 [1972] (28 Feb. 1973a).
Type: 'Kenya, K 7, Taita District: Mt. Kasigau, route from Rukanga to summit; upper slopes of summit peak. Alt. 1 640 m. Mist forest with *Syzygium sclerophyllum* and *Rapanea* dominant but dwarfed. Epiphyte, common. 6.II.1970.', *R.B. Faden et al. 71/186* (FT26209, holo.; BOL, BR, EA, K, MO, US, iso.).

*X. myosuroides* sensu Schelpe in Contributions from the Bolus Herbarium 1: 10 (1969b), non Sw. (1788: 128).

Distribution: Kenya, Tanzania.

**Lellingeria tomensis** *(Schelpe) Parris* in Kew Bulletin 59,2: 223 (2004).

*Grammitis tomensis* Schelpe in Contributions from the Bolus Herbarium 1: 6 (17 Dec. 1969b).
Type: 'San Tomé, Encasto do Pico, 2 000 m alt.', *F. Quintas 11* (BM000585340, holo.).

Distribution: São Tomé.

## LEPISORUS

**Lepisorus** *(J.Sm.) Ching* in Bulletin of the Fan Memorial Institute of Biology 4,3: 47 (1933b).

*Drynaria* (Bory) J.Sm. sect. *Lepisorus* J.Sm. in Companion to the Botanical Magazine 72: 13 (1846). Type: *Lepisorus nudus* (Hook.) Ching; *Pleopeltis nuda* Hook.

**Lepisorus excavatus** *(Bory ex Willd.) Ching* in Bulletin of the Fan Memorial Institute of Biology 4,3: 68 (1933b).

*Polypodium excavatum* Bory ex Willd., Species plantarum, edn 4, 5,1: 158 (25–27 Jun. 1810).
Type: "Habitat in insulae Mauritii et Bourboniae arboribus", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19619.2, lecto.), designated by Schelpe & Anthony (1986: 161); (B-W, P00482654!, PE, iso.).

*Phymatodes excavata* (Bory ex Willd.) C.Presl, Tentamen pteridographiae: 196 (Oct. 1836).

*Drynaria excavata* (Bory ex Willd.) Fée, Cinquième mémoires sur la famille des fougères: 270 (1852).

*Pleopeltis excavata* (Bory ex Willd.) Sledge in Bulletin of the British Museum (Natural History). Botany 2,5: 138 (Feb. 1960).

*Polypodium simplex* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 19 (1801), nom. illeg. [McNeill *et al.* (2006) Art. 53.1)], non Burm.f. (1768a: 235).
Type: Probably from Réunion, *C.P. Thunberg s.n.* (UPS, holo.).

*Phymatodes simplex* (Sw.) C.Presl, Tentamen pteridographiae: 196 (Oct. 1836), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d)].

*Polypodium lineare* Thunb. var. *simplex* (Sw.) Baker in Synopsis filicum, edn 2: 354 (Oct. 1874a).

*Pleopeltis simplex* (Sw.) Bedd., Handbook to the ferns of British India: 347 (May 1883), nom. illeg. [McNeill *et al.* (2006) Art. 32.1(d)].

*Polypodium sesquipedale* Wall., A numerical list of dried specimens: no. 275 (1829). nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)].
Type: 'Nepales, 1820', *N. Wallich s.n.* (not located).

*Polypodium phlebodes* Kunze ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 92 (1856b).
Type: "In montibus simensibus prope Gessgessa", *A.F.W. Schimper 1364* (B, lecto.), designated by Pichi Sermolli (1968a: 189); (B20 0089793!, B20 0089794!, B20 0089795!, B20 0089796!, B20 0089797, B20 0089798, BM, BR, G, K000435921, P00477908!, P00482660!, P00482661!, P00482662!, WAG, iso.); 'Abyssinia', *A.F.W. Schimper 1560* (B20 0089797!, B20 0089798!, K000435922, P00477909!, P00477910!, P00477911!, P00477912!).

*Polypodium excavatum* Bory ex Willd. var. *phlebodes* (Kunze) C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 186 (1924).

*L. phlebodes* (Kunze ex Mett.) Ching in Bulletin of the Fan Memorial Institute of Biology 4,3: 72 (1933b).

*Pleopeltis phlebodes* (Kunze ex Mett.) Pic.Serm. in Webbia 23,1: 189 (20 Nov. 1968a).

*Polypodium bullatum* Baker in Botanical Journal of the Linnean Society 15: 420 (1876b).
Type: Madagascar, *W. Pool s.n.* (K000435918!, holo.).

*Polypodium preussii* Hieron. in Botanische Jahrbücher 46,3: 386, 387 (1911).
Type: 'Kamerun: epiphytisch auf Bäumen im Urwald bei Buea, 1891', *P.R. Preuss 929* (B20 0089809!, lecto.), designated by Zink (1993: 45); 'in 2 160 m Höhe ü. M., 2 März 1891 *P.R. Preuss 862* (B20 0089810!, syn.); '1908/1909 mit dem Vulgämamen "Liongelafáco"', *H. Reder 1029* (B20 0089811!, BM, P00482663!, syn.).

*L. preussii* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 32 (15 Nov. 1946a).

*Pleopeltis preussii* (Hieron.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 217, t. 44, figs 6–8 (1953d).

*Polypodium mildbraedii* Hieron. in Botanische Jahrbücher 46,3: 391, 392 (1911).
Type: 'Deutsch-Ostafrika: auf *Erythrina* bäumen epiphytisch, vereinzelt in der Bergsteppe auf einen Lavastrom, in Höhe von 1 800–2 000 m ü. M. bei Ninagongo unweit der Station Kissenye nördlich vom Kiwu-See, 1 Okt. 1907', *G.W.J. Mildbraed 1297* (B20 0089791!, holo.; P00482659!, iso.),

*Pleopeltis mildbraedii* (Hieron.) Pic.Serm. in Webbia 23,1: 189 (20 Nov. 1968a).

*L. mildbraedii* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 33 (15 Nov. 1946a).

*Polypodium stolzii* Hieron. in Botanische Jahrbücher 46,3: 389, 390 (1911).
Type: 'Deutsch-Ostafrika; bei Lungve im Kondeland, Nyassagebiet in Höhe von 1 459 m ü. M., 2 Juli 1899', *A. Stolz 96b* (B20 0089977, lecto.), designated by Pichi Sermolli (1968a: 189, 190); (BM, P00482653!, isolecto.); 'Oberes Kongogebiet: am Berge Tenga (Runsoro-ordo Ruwinzoro-Gebirge), 15 Mai 1908', *T. Kässer 2968* (B20 0089976, K, P00482655!, P00482656!, Z000005295, isosyn.).

*L. stolzii* (Hieron.) Pic.Serm. in Nuovo giornale botanica Italiano, ser. 2, 52,1/4: 33 (15 Nov. 1946a).

*Pleopeltis stolzii* (Hieron.) Pic.Serm. in Webbia 23,1: 189 (20 Nov. 1968a).

*Polypodium rotundum* Bonap. in Notes Ptéridologiques 15: 47, 48 (25 Feb. 1924).
Type: 'Afrique orientale brittanique. Pentes Ouest du Mont Kénia. Le long du chemin allant dé la station West Kenia Forest au sommet. Zone des bambous. A environ 3 000 mètres d'altitude. 28 septembre au 7 octobre 1909', *E.A. Mearns 1771* (US631726, lecto.), designated by Zink (1993: 48); (C, P00482667!, US632356, isolecto.); "Bamboo zone, western slopes of Mount Kenya, along the trail from West Kenia Forest Station to summit, British East Africa, about 3 000 meters elevation. Sept. 28 to Oct. 7, 1909", *E.A. Mearns 2384* (P00477914!, syn.).

*L. rotundus* (Bonap.) Ching in Bulletin of the Fan Memorial Institute of Biology 4,3: 51 (1933b).

*Pleopeltis rotunda* (Bonap.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 219, t. 44, t. 9–11 (1953d).

*Polypodium vesiculari-paleaceum* Hieron. in Botanische Jahrbücher 46,3: 390, 391 (1911).
Type: 'Deutsch-Ostafrika: an Bäumen im Urwald über Moabi in Höhe von 2 700 m ü. M., 8 Okt. 1901', *C. Uhlig 123* (B20 0089987!, holo.; EA, K000435920!, P00482668!, iso.).

*L. vesiculari-paleaceum* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 33 (15 Nov. 1946a).

*Pleopeltis vesiculari-paleacea* (Hieron.) Pic.Serm. in Webbia 23,1: 190 (20 Nov. 1968a).

*Polypodium excavatum* Bory ex Willd. var. *vesiculari-paleaceum* (Hieron.) C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 186 (1924).

*Polypodium preussii* Hieron. var. *ledermannii* Hieron. in Botanische Jahrbücher 46,3: 387, 388 (1911).
Type: 'Kamerun: an einer schmalen, steinigen und felsigen Galerie mit wenigen großen Bäumen bei Gendero unweit der Station Mav Barkedje in 1 200–1 400 m Höhe ü. M., 6 Okt. 1909', *C.L. Ledermann 5457* (B20 0089820!, holo.; P00482666, iso.).

*L. preussii* (Hieron.) Pic.Serm. var. *ledermannii* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 32 (15 Nov. 1946a).
Type: 'Kamerun', *C.L. Ledermann 5457* (B20 0089820!; P00482666!, iso.).

*Polypodium preussii* Hieron. var. *angustifolium* Hieron. in Botanische Jahrbücher 46,3: 388 (1911), as '*angustifolia*'.
Type: 'Kamerun: in der Grasregion an Felsen im Westen von Buea, 2200 m ü. M., 6 Okt. 1891', *P.R. Preuss 1042* (B20 0089818!, lecto.), designated by Zink (1993: 46); (B20 0089817, P00482664, isolecto.); 'bei Buea an nicht genauer angegebenwer Stelle, ohne Datum', *H. Deistel s.n.* (B20 0089816, syn.); "Buea, 2 500 m, 24.5.91", *P.R. Preuss 924* (B20 0089819!, syn.).

*L. preussii* (Hieron.) Pic.Serm. var. *angustifolia* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 32 (15 Nov. 1946a).

*Pleopeltis preussii* (Hieron.) Tardieu var. *angustifolia* (Hieron.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 219 (1953d), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)].

*Polypodium preussii* Hieron. var. *angustipaleaceum* Hieron. in Botanische Jahrbücher 46,3: 388 (1911), as '*angustipaleacea*'.
Type: 'Kamerun: auf *Hypericum angustifolium* epiphytisch bei den Höhlen westlich von Buea 2500 m ü. M., 24 Mai 1891', *P.R. Preuss 924* (B20 0089819!, holo.).

*L. preussii* (Hieron.) Pic.Serm. var. *angustipaleacea* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 32 (15 Nov. 1946a).

*Polypodium preussii* Hieron. var. *winkleri* Hieron. in Botanische Jahrbücher 46,3: 388 (1911).
Type: 'Kamerun: auf Urwaldbäumen nicht allzu häufig bei Neu Tegel (Molyko) im Kamerungebirge, 600 m ü. M., Juli 1904', *H. Winkler 253a* zum Teil (B20 0130212!, lecto.), designated by Zink (1993: 47); (B20 0089823!, B20 0089824!, isolecto.); 'zwischen Songolong und Ngom, auf Bäumen in buschwald-ähnlichen kleinen Galeriewaldungen mit viel Sträuchern und Lianen, 800 m ü. M., 18 Okt. 1909', *C.L. Ledermann 5641* (B20 0089821!, B20 0089822, syn.); 'in lichtem, teilweise buschähnlichem, mit Rocella und Epiphyten behangenem Gebirgswald bei Bagangu unweit der Station Mfongu, 30 Okt. 1909', *C.L. Ledermann 5868* (B20 0089822!, P00482665!, syn.).

*L. preussii* (Hieron.) Pic.Serm. var. *winkleri* (Hieron.) Pic. Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 32 (15 Nov. 1946a).

*Pleopeltis preussii* (Hieron.) Tardieu var. *winkleri* (Hieron.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 219 (1953d), [McNeill *et al.* (2006) Art. 32.1(d)].

*L. corradii* Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 52,1/4: 30, 31, fig. 3 (15 Nov. 1946a).
Type: Ethiopia. 'Mega, Monti Gemelli, su scogliere in pendio ricoperte di muschi e licheni, all'ombra di Teclea sp. e Scolopia platyphylla, molto rara, mai notata in altre località. 12 sett. 1939', *R. Corradi 36* (FT, holo.).

*Pleopeltis corradii* (Pic.Serm.) Cufod. in Phyton 4,1/2: 189 (1952).

*Pleopeltis bampsii* Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 200, 201, fig. 2 (30 Jun. 1983a).
Type: 'Rwanda, Préf. Ruhengeri, selle entre le Karisimbi et le Vissoke (1°29'S, 29°29'E), 3000 m, forêt-prairie à vieux Hagenia, epiphyte sur Hagenia, 20.1.1972', *P. Bamps 2962* (BR, holo.; GENT, K000435924!, LG, WAG, iso.).

*L. bampsii* (Pic.Serm.) Zink, Systematics of the fern genus *Lepisorus* (J.Smith) Ching (Polypodiaceae–Lepisoreae) with special reference to Africa and including an annotated list to all names published so far: 36 (1993).

*Polypodium lineare* sensu Sim, The ferns of South Africa: 197, 198, pl. CXIV (1892), non Thunb. (1784: 335).

*Pleopeltis lycopodioides* sensu Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 148 (1935), non (L.) C.Presl (1836: 193).

Chromosome number: n = 35; ± 70 (Manton 1959: 79).

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Comoro Isl. (Grande Comore), Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Réunion, Rwanda, São Tomé, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Lepisorus perrierianus** *(C.Chr.) Ching* in Bulletin of the Fan Memorial Institute of Biology 4,3: 51 (1933b).

*Polypodium perrierianum* C.Chr. in Notes Ptéridologiques 16: 193, 194 (14 Apr. 1925b).
Type: Madagascar. 'Plateau de Miangaka, 1 500 mètres d'altitude; épiphyte; frondes très glauques. Novembre 1922.' *H. Perrier de la Bâthie 15158* (P00482657!, holo.; P00482658!, iso.).

*Pleopeltis perrieriana* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 110 (Apr. 1960a).

Distribution: Madagascar.

**Lepisorus schraderi** *(Mett.) Ching* in Bulletin of the Fan Memorial Institute of Biology 4,3: 51 (1933b).

*Polypodium schraderi* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 98, pl. 2, fig. 11 (1856b).
Type: 'Prom. b. spei', *C.H.F. Hesse s.n.* (LE, holo.).

*Niphobolus schraderi* (Mett.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 39 (1873).

*Polypodium lineare* Thunb. var. *schraderi* (Mett.) Sim, Handbook of the ferns of Kaffraria: 52, pl. LVI (Oct. 1891), nom. nov. for *Polypodium elongatum* Schrad. (1818: 915).

*Pleopeltis schraderi* (Mett.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 110 (Apr. 1960a).

*Polypodium elongatum* Schrad. in Göttingische Gelehrte Anzeigen 1818: 915 (1818), non Aiton (1789: 465), nom. superfl. [McNeill *et al.* (2006) Art. 53.1].
Type: South Africa, Grahamstown, *C.H.F. Hesse s.n.* (LE, holo.).

*Phymatodes elongata* (Schrad.) Pappe & Rawson, Synopsis filicum Africae australis: 41 (Jan.–Jul. 1858), nom. illeg. [McNeill *et al.* (2006) Art. 53.1)], non (Kaulf.) C.Presl (1836: 196).

*Polypodium gueinzii* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 91, pl. 3, figs 18, 19 (1856b), as '*gueintzii*'.
Type: 'Ad portum Natalensem lectum', *W. Gueinzius s.n.* (LZ†, holo.; B, S, ?iso.).

*Polypodium lineare* Thunb. var. *gueinzii* (Mett.) C.Chr., Index filicum: 540 (19 May 1906).

*L. gueinzii* (Mett.) Ching in Bulletin of the Fan Memorial Institute of Biology 4,3: 51 (1933b), as '*gueintzii*'.

Distribution: Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Rwanda, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

See Plate 6D.

## LOXOGRAMME

**Loxogramme** *(Blume) C.Presl*, Tentamen pteridographiae: 214, t. 9, fig. 8 (Oct. 1836).

*Antrophyum* Kaulf. sect. *Loxogramme* Blume, in Blume & Fisher, Flora Javae, Filices 9/10: 73 (12 May 1829). Lectotype: *Loxogramme lanceolata* (Sw.) C.Presl; *Grammitis lanceolata* Sw.

**Loxogramme abyssinica** *(Baker) M.G.Price* in American Fern Journal 74,2: 61 (1984).

*Gymnogramma abyssinica* Baker in Synopsis filicum, edn 2: 517 (Oct. 1874a).
Type: "Abyssinica. Auf Baümen im Schaften 7500' Gerra. 29 Nov. 63", *A.F.W. Schimper 1445* (K000435887!, holo.; B20 0089317, B20 0089318, B20 0089319, iso.).

*Asplenium plantagineum* L. var. *β* Lam., Encyclopédie méthodique. Botanique 2,1: 303 (16 Oct. 1786).
Type: "Ile de France", *P. Commerson s.n.* (P00482682, holo.; C, iso.).

*Polypodium loxogramme* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 216, pl. 3, fig. 25 (1856b).
Type: unknown to current author.

*L. suberosa* H.Christ in Annales du Musée du Congo (Belge). Botanique, ser. 5, 3: 37 (1909b).
Type: 'Fougère épiphyte, route de Bima à Bambili, 28 octobre 1905', *F. Seret 147* (BR, holo.; P00483523!, iso.).

*P. suberosum* (H.Christ) C.Chr., Index filicum. Supplémentum 1906–1912: 62 (20 Dec. 1913a).

*L. africana* Copel. in The Philippine Journal of Science 11,1: 45, t. 1, fig. 6 (Jan. 1916).
Type: "Angola, Pungo-Andongo. Jan/April 79", *Mechow Exped. 142* (MICH, holo.; B20 0089322, B20 0089323, iso.).

*P. loxogramme* Mett. var. *laciniata* Bonap. in A.Chev., Exploration botanique de l'Afrique occidentale française 1: 772 (1920), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 43.1].
Type: 'Guineé francaise: Taip des Koniankés Tassakoïdou, 24 feirvier 1909', *A. Chevalier 20799* (P, holo.).

*P. loxogramme* Mett. var. *membranacea* Bonap. in A.Chev., Exploration botanique de l'Afrique occidentale française 1: 772 (1920), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 43.1].

*L. lanceolata* (Sw.) C.Presl f. *nana* Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 119, fig. 26, t. 7 (Apr. 1960a).
Type: Madagascar. 'Baie d'Antongil', *H. Perrier de la Bâthie 7995* (P?, syn.); 'mont Adriambavibe', *R. Decary 18111* (P?, syn.); 'Beforona', *R. Decary 18038* (P?, syn.); 'forêt d'Analamazaotra', *H. Perrier de la Bâthie 6164, 7522* (P?, syn.).

*L. lanceolata* sensu auctt.

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Grande Comore), Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, Socotra, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

See Plate 6E.

**Loxogramme buettneri** *(Kuhn) C.Chr.*, Index filicum. Supplementum préliminaire: 21 (Oct.–Dec. 1917).

*Polypodium buettneri* Kuhn in Verhandlungen des Botanischen Vereins der Provinz Brandenburg 31: 68 (1889c).
Type: 'Gebirgswald bei den Arthingtonfällen von Kisulu. 23 Januar 1885', *O.A.R. Büttner 610* (B20 0089185!, holo.).

*L. chevalieri* Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 214, pl. 40, figs 9, 10 (1953d).
Type: 'Côte d'Ivoire: Entre Danané et Goutokouma', *A.J.B. Chevalier 21310* (P00483522, holo.; P00483521, iso.).

Distribution: Cameroon, Liberia.

**Loxogramme humblotii** *(C.Chr.) C.Chr*. in Dansk Botanisk Arkiv 7: 159, pl. 60, t. 8 (Oct. 1932b).

*Polypodium humblotii* C.Chr., Index filicum: 534 (19 May 1906), nom. nov. for *Polypodium inconspicuum* Baker (1884c: 143), non Blume (1828: 130).

*P. inconspicuum* Baker in Journal of Botany, British and Foreign 1884: 143 (1884c), non Blume (1828: 130).
Type: Madagascar, *L. Humblot 447* (K000435885!, holo.; B20 0130199, P00482675!, P00482676!, P00482677!, plus 2 unnumbered sheets iso.).

Distribution: Madagascar.

**Loxogramme latifolia** *Bonap*. in Notes Ptéridologiques 14: 334 (23 Nov. 1923b).
Type: 'Congo belge. Forêt vierge aux bords de la Semliki, épiphyte. Le 20 mars 1914'. *J.C.C. Bequaert 3073* (BR, holo.; P00483503, iso.).

*L. lanceolata* (Sw.) C.Presl var. *latifolia* (Bonap.) Benl in Acta Botanica Barcinonensia 33: 26 (1982).

*Polypodium loxogramme* Mett. f. *gigas* Bonap. in Notes Ptéridologiques 15: 45, 46 (25 Feb. 1924).
Type: 'Uganda Protectorate. Kipayo. Forêt. Épiphyte. 4000 pieds d'altitude, Avril 1914'. *R. Dümmer 754* (sphalm: '154') (P00482681!, holo.; US634593, US634594, syn., K000435886!, isosyn.).

Distribution: Angola, Bioko, Cameroon, DRC, Equatorial Guinea, Ghana, Liberia, Uganda.

## MELPOMENE

**Melpomene** *A.R.Sm. & R.C.Moran* in Novon 2,4: 426 (1992). Type: *Melpomene monoliformis* (Lag. ex Sw.) A.R.Sm. & R.C.Moran; *Polypodium moniliforme* Lag. ex Sw.

**Melpomene flabelliformis** *(Poir.) A.R.Sm. & R.C.Moran* in Novon 2,4: 430 (1992).

*Polypodium flabelliforme* Poir. in Encyclopedie méthodique, Botanique 5: 519 (9 Jan. 1804).
Type: 'Bourbon', *P. Commerson s.n*. (P-JU 1098-C, lecto.), designated by Morton (1967: 57).

*Ctenopteris flabelliformis* (Poir.) J.Sm., Historia filicum: 184 (Oct.–Dec. 1875).

*Grammitis flabelliformis* (Poir.) C.V.Morton in Contributions from the United States National Herbarium 38,2: 57 (1967).

*Xiphopteris flabelliformis* (Poir.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 217 (1967).

*P. rigescens* Bory ex Willd., Species plantarum, edn 4, 5,1: 183, 184 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19668!, holo.; P-JU, FI, iso.).

*P. moniliforme* Lag. var. *rigescens* (Bory ex Willd.) Hook., Species filicum 4,15/16: 182 (1863).

*C. rigescens* (Bory ex Willd.) J.Sm., Historia filicum: 184 (Oct.–Dec. 1875).

*X. rigescens* (Bory ex Willd.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 27 (1956a), as '*nigrescens*'.

*G. rigescens* (Bory ex Willd.) Lellinger in Proceedings of the Biological Society of Washington 98,2: 383 (1985).

Distribution: Bioko, Cameroon, DRC, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Réunion, Rwanda, Somalia, South Africa, Tanzania, Uganda, Zimbabwe.

See Plate 6F.

## MICROGRAMMA

**Microgramma** *C.Presl*, Tentamen pteridographiae: 213, 214, pl. 9, fig. 7 (Oct. 1836). Type: *Microgramma persicariifolia* (Schrad.) C.Presl; *Polypodium persicariifolium* Schrad., as '*persicariaefolium*'.

*Anapeltis* J.Sm., Cultivated ferns: 5 (Oct. 1857a). Type: *Anapeltis lycopodioides* (L.) J.Sm.; *Polypodium lycopodioides* L., (now *Microgramma lycopodioides* (L.) Copel.).

**Microgramma mauritiana** *(Willd.) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 108, t. 24, figs 6–8 (Apr. 1960a).

*Polypodium mauritianum* Willd., Species plantarum, edn 4, 5,1: 150 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19606!, holo.; B!, P00482670!, iso.).

*Polypodium lagopodioides* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 313 (1811).
Type: 'Habitat in insula Borboniae', *sine coll. s.n*. (?P, holo.).

*Polypodium owariense* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 314 (1811).
Type: 'Habitat in regno Owariensi et Benin Africes', Nigeria, Warri 'Oware', *A.M.F.J. Palisot de Beauvois s.n*. (P00482672!, holo.; P00482673!, iso.).

*Anapeltis owariensis* (Desv.) J.Sm., Ferns: British & Foreign: 86 (1866).

*M. owariense* (Desv.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 20 (1956a).

*A. lycopodioides* (L.) J.Sm. var. *owariensis* (Desv.) Benl in Acta Botanica Barcinonensia 33: 18 (1982).

*Polypodium myrtillifolium* Kaulf., Enumeratio filicum: 89, 90 (Oct. 1824).
Type: "Habitat in Madagascaria", *L.-M.A. du Petit-Thouars s.n.* (B-W 19605!, holo.).

*Polypodium lycopodioides* L. var. *myrtillifolium* (Kaulf.) C.Chr. in Dansk Botanisk Arkiv 7: 157 (Oct. 1932b).

*Polypodium ligustrifolium* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 225 (Jul. 1827).
Type: 'Crescit in Madagascaria', *sine coll. s.n.* (P00482669!, holo.).

*Polypodium mackenii* Baker in Synopsis filicum 9: 357 (29 Jan. 1868a).
Type: 'Natal', *M.J. McKen 22* (K000435947, holo.).

*Polypodium lycopodioides* L. var. *mackenii* (Baker) Sim, The ferns of South Africa: 203, pl. CXIX, fig. 2 (1892).

*Polypodium anguinum* Peter in Feddes Repertorium, Beiheft 40,1: 29, Anhang: 3, t. 1, fig. 10 (1929).
Type: 'WUsambara: Uw am Gebirgspass zur Umbasteppe in der Gegend Ngulumi bei Mashewa 800', *A. Peter 16641* (B, syn.; K000435948, isosyn.); 'Udigo: Ukereni-Hügel beii Amboni an Baumstamm', *A. Peter 24119* (B, syn.); 'DOAfr., Usaramo: Berg Kinyajiko über Pugu', *A. Peter 31632* (B, syn.); 'Gegend Kwatangu bei Mashewa auf *Encephalartos Hildebrandtii* 430', *A. Peter 13866* (B, K000435951, syn.).

*M. owariense* (Desv.) Alston f. *nana* G.Kunkel in Bericht der Schweizerischen Botanischen Gesellschaft 72: 37, 38, Abb. 2b (1962).
Type: 'Firestone Plantation, Juli 1961; an *Hevea brasiliensis*. Gefunden an mehreren Bäumen, gemeinsam mit arttypischer *Microgramma owariense*, daher kein Ökotyp', *G. Kunkel F-116* (not located).

*Phlebodium lycopodioides* sensu J.Sm. (1846: 6), non (L.) J.Sm. (1846: 12).

*M. lycopodioides* sensu auct., non *Polypodium lycopodioides* L. (1753: 1082).

Chromosome number: n = ± 37 (Manton 1959: 79).

Distribution: Angola, Annobon, Bioko, Cameroon, Central African Republic, Comoro Isl. (Mayotte), Congo, Coté d'Ivoire, Equatorial Guinea, Gabon, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Príncipe, Réunion, São Tomé, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zanzibar, Zimbabwe.

## MICROSORUM

**Microsorum** *Link*, Hortus regius botanicus berolinensis 2: 110 (Jul.–Dec. 1833b). Type: *Microsorum irregulare* Link (now *Microsorum punctatum* (L.) Copel.; *Acrostichum punctatum* L.).

*Neocheiropteris* H.Christ in Bulletin de la Société Botanique de France 52, Mémoires: 21 (May 1905b). Type: *Neocheiropteris palmatopedata* (Baker) H.Christ; *Polypodium palmatopedatum* Baker.

*Phymatosorus* Pic.Serm. in Webbia 28,2: 457 (1973b). Type: *Phymatosorus scolopendria* (Burm.f.) Pic.Serm.; *Polypodium scolopendrium* Burm.f.

*Phymatodes* auct. non C.Presl (1836: 195).

**Microsorum lastii** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 116 (Apr. 1960a).

*Polypodium lastii* Baker in Journal of Botany, British and Foreign 1891: 5 (1891b).
Type: 'North-western Madagascar, Bé Kilus Mts', *J.T. Last s.n.* (K000435917, holo.).

*Neocheiropteris lastii* (Baker) Ching in Bulletin of the Fan Memorial Institute of Biology 4,3: 111 (1933b).

Distribution: Madagascar.

**Microsorum leandrianum** *Tardieu* in Notulae Systematicae (Paris) 15,4: 444 (1959d).
Type: Madagascar. 'Ouest: Tsiandro', *J.D. Léandri, R. Capuron et Razafindrakoto* 1900 (P00482648!, P00482647!, holo.).

Distribution: Madagascar.

**Microsorum pappei** *(Mett. ex Kuhn) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(11) Blechnacées—5(14) Polypodiacées (sensu stricto)]: 115 (Apr. 1960a).

*Polypodium pappei* Mett. ex Kuhn, Filices africanae: 150 (Oct. 1868).
Type: 'Prom. bon. Spei, Caffraria', *R.W. Rawson s.n.* (B, syn.; BM, K000435916!, isosyn.); Natalia, deep dense glen, Richmond 11/1864, *J. Sanderson 107* (K000435914!, isosyn.).

*P. normale* D.Don var. *madagascariense* Baker in Journal of the Linnean Society, Botany 15: 420 (1876b).
Type: 'Madagascar', *W. Pool s.n.* (K, holo.).

*P. normale* sensu Sim, The ferns of South Africa: 199, 200, pl. CXVI (1892).

Distribution: Madagascar, Mozambique, South Africa, Tanzania, Zimbabwe.

**Microsorum punctatum** *(L.) Copel.* in University of California Publications in Botany 16,2: 111 (1929c).

*Acrostichum punctatum* L., Species plantarum, edn 2, 2: 1524 (Aug. 1763).
Provenance: 'Habitat in China, *J. Fothergill*'. Type: None designated.

*Polypodium punctatum* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 21 (1801), nom. illeg., non Thunb. (1784: 337).

*Pleopeltis punctata* (L.) Bedd., Supplement to the ferns of southern India and British India: 22 (1876).

*Polypodium polycarpon* Cav. ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2 21 (1801), nom. illeg., non Cav. (1801a: 246).

*Drynaria polycarpa* (Cav. ex Sw.) Brack., United States Exploring Expedition. Filices 16: 44 (Sep.–Nov. 1854).
Type: Java, *C.P. Thunberg s.n.* (UPS, syn.); Mauritius, *C.F. Gröndahl s.n.* (S?, syn.).

*Polypodium irioides* Poir. in Encyclopedie méthodique, Botanique 5: 513, 514 (9 Jan. 1804).
Type: 'l'Ile-de-France', Herb. Lamarck, *sine coll. s.n.*, *?Commerson* (P. s.n. P-LA, holo.).

*Phymatodes irioides* (Poir.) C.Presl, Tentamen pteridographiae: 198 (Oct. 1836).

*D. irioides* (Poir.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 398 (May 1841), excl. *Cuming 21*.

*M. irioides* (Poir.) Fée, Cinquième mémoires sur la famille des fougères: 268, t. 20B, fig. 1 (1852).

*Pleopeltis irioides* (Poir.) T.Moore, Index filicum 1: lxxviii (1857e).

*Colysis irioides* (Poir.) J.Sm., Historia filicum: 101 (Oct.–Dec. 1875), as '*erioides*'.

*Polypodium lingulatum* Sw., Synopsis filicum: 30 (Mar.–Apr. 1806b), nom. superfl. [McNeill *et al.* (2006) Art. 52.1]. Type: as for *Acrostichum punctatum* L.

*Phymatodes lingulata* (Sw.) C.Presl, Tentamen pteridographiae: 198 (Oct. 1836), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)].

*Polypodium crassinerve* Schumach., Beskrivels af Guineeiske planter: 453 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs Naturvidenskabelige og Mathematiske Afhandlinger 4: 227 (1829).
Type: 'Akuapim, 1786', *P.E. Isert s.n.* or Schumacher herb. no. 87 (C, holo.).

*M. irregulare* Link, Hortus regius botanicus berolinensis 2: 110 (Jul.–Dec. 1833b).
Type: Origin unknown, *sine coll. s.n.* (B20 0087778!, ?holo.).

*Polypodium altum* Bojer, Hortus mauritianus: 417 (1837).
Type: 'Ile Maurice. Croît dans les forêts de la Riviere Noire dite aux Trois Bras', *sine coll. s.n.* (not located).

*Polypodium sessile* Kaulf. ex Kunze in Botanische Zeitung (Berlin) 6,7: 116 (18 Feb. 1848b).
Type: "Ins. Mauritii", *F.W. Sieber*, Syn. fil. no. 31 (B20 0099565!, holo., B20 0099564!, B20 0099566!, B20 0099567!, BM, K, PC, PR, S, iso.).

*Phymatodes sessilis* (Kaulf. ex Kunze) C.Presl, Tentamen pteridographiae: 198 (Oct. 1836).

*M. sessile* (Kaulf. ex Kunze) Fée, Cinquième mémoires sur la famille des fougères: 268 (1852).

*Pleopeltis sessilis* (Kaulf. ex Kunze) T.Moore, Index filicum 1: lxxviii (1857e).

*Polypodium normale* (D.Don) Ching var. *longifrons* sensu H.Christ in Annals du Musée du Congo 1,1: 69 (1899a), non Wall. ex Hook. & Grev. (1828a, pl. 65).

*Polypodium longifrons* sensu H.Christ in Annals du Musée du Congo 1,1: 69 (1899a), non Wall. (1829, no. 274).

Chromosome number: n = 36 (Manton 1959: 79).

Distribution: Angola, Annobon, Bioko, Cameroon, Central African Republic, Comoro Isl. (Anjouan), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Pemba, Príncipe, Réunion, São Tomé, Seychelles, Sierra Leone, South Africa, Tanzania, Uganda, Zanzibar, Zimbabwe.

**Microsorum rubidum** *(Kunze) Copel.*, Genera filicum: 197 (1947), nom. nov. for *Drynaria rubida* J.Sm. (1841: 397), nom. nud. [McNeill *et al.* (2006) Art. 52.1].

*Polypodium rubidum* Kunze in Botanische Zeitung (Berlin) 6,7: 117, 118 (18 Feb. 1848b).
Type: Philippines, *H. Cuming 241* (BM, holo.; K, L, P, US, iso.).

*Polypodium longisissimum* Blume, Enumeratio plantarum Javae 2: 127 (1828), non *Microsorum longissimum* Fée (1952: 268).
Type: 'Crescit in Provincia Bantam circa Harriang, in Provincia Cheribon ad radicem montis Tjerimai Javae insulae', *C.L. von Blume 35* (L, lecto.), designated by Nooteboom (356: 1997).

*Phymatodes longissima* (Blume) J.Sm., Cultivated ferns: 10 (Oct. 1857a).

*Phymatosorus longissimus* (Blume) Pic.Serm. in Webbia 28,2: 459 (1973b).

*Polypodium schneideri* H.Christ in Bulletin de l'Herbier Boissier 6,10: 835, 836 (1898).
Type: 'Soerakanda, Oberlanghat, in plaga orientali Insulae Sumatra in paludibus', *G. Schneider 40* (P, holo.).

*M. schneideri* (H.Christ) Copel., Genera filicum: 197 (1947).

*Polypodium suisha-stagnalis* Hayata, Icones plantarum formosanarum 6: 160 (25 Dec. 1916).
Type: 'Hab. In stagnis Suisha, Aprili 26, 1916', *B. Hayata s.n.* (not located).

*Phymatosorus suisha-stagnalis* (Hayata) Pic.Serm. in Webbia 28,2: 460 (1973b).

Distribution: Mauritius, Réunion.

**Microsorum scandens** *(G.Forst.) Tindale* in American Fern Journal 50,3: 241 (18 Oct. 1960).

*Polypodium scandens* G.Forst., Florulae insularum australium prodromus: 81 (1786b).
Type: Tindale (1960: 241) gives: 'Lectotype: Without locality, labelled 275 and 437, *Polypodium scandens* (BM); 'Society Islands' has been added to the label later'.

*Phymatodes scandens* (G.Forst.) C.Presl, Tentamen pteridographiae: 196 (Oct. 1836).

*Phymatosorus scandens* (G.Forst.) Pic.Serm. in Webbia 28,2: 459 (1973b).

Distribution: South Africa, Zimbabwe.

**Microsorum scolopendria** *(Burm.f.) Copel.* in University of California Publications in Botany 16,2: 112 (1929c).

*Polypodium scolopendria* Burm.f., Flora indica: 232 (1 Mar.–6 Apr. 1768b).
Type: 'India', Indonesia, Java, *F.A. Prayan, 'Pryon' s.n.*, Herb. Burmann (G!, lecto.), designated by Schelpe & Anthony (1986: 165).

*Phymatodes scolopendria* (Burm.f.) Ching in Contributions from the Institute of Botany, National Academy of Peiping 2,3: 63 (Dec. 1933d).

*Phymatosorus scolopendria* (Burm.f.) Pic.Serm. in Webbia 28,2: 460 (1973b).

*Polypodium phymatodes* L., Mantissa plantarum, altera: 306, 307 (Oct. 1771).
Type: 'Habitat in India orientali', *sine coll. s.n.* (LINN 1251.6, holo.).

*Chrysopteris phymatodes* (L.) Link, Filicum species: 122 (Oct. 1841).

*Drynaria phymatodes* (L.) Fée, Cinquième mémoires sur la famille des fougères: 270, 271 (1852).

*Pleopeltis phymatodes* (L.) T.Moore, Index filicum 1: lxxviii (1857e).

*Phymatodes phymatodes* (L.) Maxon in Contributions from the United States National Herbarium 9: 352, 353, t. 62 (8 Apr. 1905), nom. illeg. [McNeill *et al.* (2006) Art. 23.4)].

*Phymatodes vulgaris* C.Presl, Tentamen pteridographiae: 196 (Oct. 1836), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Polypodium phymatodes* L.

*D. vulgare* (C.Presl) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 3,24: 397 (1841), nom. nov. for *Polypodium phymatodes* L. (1771: 306).

Chromosome number: n = 36 (Manton 1959: 79).

Distribution: Angola, Benin, Bioko, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Mayotte), Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Mauritius, Mozambique, Nigeria, Pemba, Príncipe, Réunion, Rodrigues Isl., São Tomé, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Togo, Uganda, Zanzibar, Zimbabwe.

## PHLEBODIUM

**Phlebodium** *(R.Br.) J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 4: 58, 59 (1842a).

*Polypodium* L. sect. *Phlebodium* R.Br. in Plantae javanicae rariores 1: 4 (4–7 Jul. 1838). Lectotype: *Phlebodium aureaum* (L.) J.Sm.; *Polypodium aureum* L., designated by J.Sm. (1875: 94).

*Polypodium* L. subgen. *Phlebodium* (R.Br.) C.Chr., Index filicum: l (10 Oct. 1906).

**Phlebodium aureum** *(L.) J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 4: 59 (1842a).

*Polypodium aureum* L., Species plantarum 2: 1087 (1 May 1753).
Provenance: 'Habitat in America, ad caudices vetustarum arborum'. Lectotype: Herb. Linn. No. 1251.10 (LINN), designated by Proctor (1977: 334).

Distribution: South Africa, Zimbabwe (naturalised).

## PLATYCERIUM

**Platycerium** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 213 (Jul. 1827). Lectotype: *Acrostichum alcicorne* Sw. (1801: 11), nom. illeg., non P.Willemet (1796: 61), (now *P. alcicorne* Desv.), designated by Smith (1875: 123).

**Platycerium alcicorne** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 213 (Jul. 1827), nom. nov.
Type: Plukenet, Amaltheum botanicum: t. 429/2 (1705, holo.), based on a plant from Johanna lsland (Comores), ?*P. Adaire s.n*. (BM-SL vol. 102, folio 194).
Note: De Joncheere (1967: 443–445) discusses the typification of the species.

*Elaphoglossum alcicorne* (Desv.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 37 (1873).

*Acrostichum alcicorne* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 11, 12 (1801), p.p., non P. Willemet (1796: 61), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Platycerium alcicorne* Desv.

*A. alcicorne* P.Willemet in Annalen der Botanik (P. Usteri, ed.) 18: 61 (1796). Type: 'Habitat in Madagascaria', *Staudtman s.n*. (missing).

*Neuroplatyceros alcicornis* (P.Willemet) Fée, Mémoires sur la famille des fougères 2: 102 (1845a), p.p.

*P. alcicorne* (P.Willemet) Tardieu in Notulae Systematicae (Paris) 15,4: 417, t. 1 (Oct. 1959a), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Desv. (1827: 213).

*P. vassei* Poiss., Revue horticole 10: 530 (1910).
Type: Mozambique, from live material, *M. Vasse s.n.* (missing).

*P. bifurcatum* sensu Sim, The ferns of South Africa, edn 2: 293, pl. 154 (1915).

Distribution: Comoro Isl. (Anjouan, Grande Comore, Mayotte), Kenya, Madagascar, Mauritius, Mozambique, Réunion, Tanzania, Zimbabwe.

**Platycerium bifurcatum** *(Cav.) C.Chr*., Index filicum: 496 (1 Apr. 1906).

*Acrostichum bifurcatum* Cav. in Anales de Historia Natural 1,2: 105 (1799).
Type: Australia, N.S. Wales, Port Jackson, *Née s.n*. (MA, holo.).

Distribution: South Africa (naturalised).

**Platycerium elephantotis** *Schweinf*. in Botanische Zeitung (Berlin) 29,21: 361, 362, fig. c (1878).
Type: 'Congo, Kh. Dyagbe, (W)Mando's village', *G.A. Schweinfurth 3120* (K, iso.; B!, 2 drawings).

*P. angolense* Welw. ex Baker in Synopsis filicum 10: 425 (Apr. 1868b), nom. illeg. [McNeill *et al.* (2006) Art. 33.1].
Type: 'Angola, Golungo Distr.', *F.M.J. Welwitsch 160* (K000435937, holo.; BM, LISU, iso.).

*Alcicornium angolense* (Welw. ex Baker) Underw. in Bulletin of the Torrey Botanical Club 32: 593 (1905).

*P. angolense* Welw. ex Baker var. *djalonis* A.Chev., Exploration botanique de l'Afrique occidentale française 1: 774 (1920), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 43.1].

*P. velutinum* C.Chr. in Dansk Botanisk Arkiv 9,3: 69 (1937c).
Type: 'Congo Belge: Kivu, plaine au Sud du Lac Édouard, vers 1 100 m, mai–juin 1929', *H. Humbert 8695* (P00482631!, holo.; BM, fragment, BR, P00482632!, iso.).

Chromosome number: n = 37 (Manton 1959: 79).

Distribution: Angola, Benin, Burundi, Cameroon, Congo, Coté d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Rwanda, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia.

**Platycerium ellisii** *Baker* in Journal of the Linnean Society, Botany 15: 421 (1876b).
Type: 'Madagascar, 1870', *W. Ellis s.n*. (K000435935, K000435936!, holo.).

*Alcicornium ellisii* (Baker) Underw. in Bulletin of the Torrey Botanical Club 32: 594 (1905).

*P. diversifolium* Bonap. in Notes Ptéridologiques 4: 84, 85 (19 May 1917b).
Type: Madagascar, 'Côte Est, Masoala, Marambo, 10 mètres d'altitude. Sur les troncs d'arbres élevés. Novembre 1912', *H. Perrier de la Bâthie 7932* (P00482623!, holo.; P00482624!, iso.).

*P. ellisii* Baker var. *diversifolium* (Bonap.) C.Chr. in Dansk Botanisk Arkiv 7: 172 (Oct. 1932b).

Distribution: Madagascar.

**Platycerium madagascariense** *Baker* in Journal of the Linnean Society, Botany 15: 421 (1876b).
Type: 'Madagascar, 1876', *W. Pool s.n*. (K000435930, K000435932, holo.; M, iso.).

*Alcicornium madagascariense* (Baker) Underw. in Bulletin of the Torrey Botanical Club 32: 595 (1905).

*P. madagascariense* Baker var. *humblotii* Poiss., Revue horticole 10: 459 (1910).
Type: 'Madagascar', *L. Humblot 208* (P00482627!, holo.; P00482625!, P00482626!, iso.).

Distribution: Madagascar.

**Platycerium quadridichotomum** (*Bonap.) Tardieu* in Notulae Systematicae (Paris) 15,4: 420, pl. 1 (Oct. 1959a).

*P. bifurcatum* (Cav.) C.Chr. var. *quadridichotomum* Bonap. in Notes Ptéridologiques 4: 84 (19 May 1917b), as '*quadridichotoma*'.
Type: Madagascar. 'Boïna. Haut Bemarivo. Forêts. Sur les troncs. Juillet 1907', *H. Perrier de la Bâthie 7720* (P00482629!, holo.; P00482628!, P00482630!, iso.).

Distribution: Madagascar.

**Platycerium stemaria** *(P.Beauv.) Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 213 (Jul. 1827).
Note: De Joncheere (1967: 445–446) discusses the typification of the species.

*Acrostichum stemaria* P.Beauv., Flore d'Oware et de Bénin 1,1: 2, pl. 2 (2 Oct. 1803).
Type: Nigeria, 'Oware', *A.M.F.J. Palisot de Beauvois s.n.* (P-JU 1008, holo.).

*Alcicornium stemaria* (P.Beauv.) Underw. in Bulletin of the Torrey Botanical Club 32: 595 (1905).

*Neuroplatyceros aethiopicus* Fée, Mémoires sur la famille des fougères 2: 103, t. 64 (1845a), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Acrostichum stemaria* P.Beauv.

*P. aethiopicum* (Fée) Hook., Garden ferns: pl. 9 (1862a).

*P. stemaria* (P.Beauv.) Desv. var. *laurentii* De Wild., Mission Émile Laurent 1: 12, fig. 2 (1905).
Type: Congo. 'Eala, 29 décembre 1903', *É. & M. Laurent s.n*. (BR, holo.; BM, K, photo.).

Distribution: Angola, Bioko, Central African Republic, Congo, DRC, Equatorial Guinea, Guinea-Bissau, Liberia, Príncipe, São Tomé, Senegal, Sudan, Uganda.

## PLEOPELTIS

**Pleopeltis** *Humb. & Bonpl. ex Willd*., Species plantarum, edn 4, 5,1: 211 (25–27 Jun. 1810). Type: *Pleopeltis angusta* Humb. et Bonpl. ex Willd.

*Polypodium* L. subgen. *Marginaria* (Bory) C.Chr., Index filicum: l (10 Oct. 1906).

*Marginaria* Bory, Dictionnaire classique d'histoire naturelle 6: 587 (9 Oct. 1824). Type: *Marginaria polypodioides* (L.) Tidestr.; *Acrostichum polypodioides* L. (now *Pleopeltis polypodioides* (L.) E.G.Andrews & Windham).

*Marginaria* Bory subsect. *Lepicystis* (J.Sm.) Farw. in The American Midland Naturalist 12,8: 298 (Mar. 1931).

**Pleopeltis macrocarpa** *(Bory ex Willd.) Kaulf*. in Berlinisches Jahrbuch der Pharmacie 21: 41 (1820).

*Polypodium macrocarpum* Bory ex Willd., Species plantarum, edn 4, 5,1: 147 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19629!, holo.; P00482650!, iso.).

*Phlebodium macrocarpum* (Bory ex Willd.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 59 (1842a).

*Drynaria macrocarpa* (Bory ex Willd.) Fée, Cinquième mémoires sur la famille des fougères: 270 (1852).

*Polypodium marginale* Bory ex Willd., Species plantarum, edn 4, 5,1: 149 (25–27 Jun. 1810), non *P. marginale* L. (1753: 1091).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19630!, holo.; Florence, P00482649, iso.).

*Pleopeltis marginalis* (Willd.) Kaulf. in Berlinisches Jahrbuch für die Pharmacie und für die damit verbundenen Wissenschaften 21: 41 (1820).

*Polypodium adspersum* Schrad. in Göttingische Gelehrte Anzeigen 1818: 915 (1818).
Type: Cape, *C.H.F. Hesse s.n*. (LE, holo.).

*Pleopeltis ensifolia* Carmich. ex Hook., Exotic flora 1,4: pl. 62 (1 Jun. 1823).
Type: Cape, *D. Carmichael s.n*. (K000435946, holo.).

*Pleopeltis lanceolata* Kaulf., Enumeratio filicum: 245 (Oct. 1824), non *P. lanceolata* (L.) Kaulf. (1824: 193).
Type: "Prom. bon. spei", *C.H. Bergius s.n.* (HAL81859; LE, iso.) (Braun 1998: 17).

*Pleopeltis kaulfussiana* C.Presl, Tentamen pteridographiae: 193 (Oct. 1836), nom. nov. for *Pleopeltis lanceolata* (L.) Kaulf.

*Polypodium lepidotum* Willd. ex Schltdl., Adumbrationes plantarum 2: 17, pl. 8 (Jun.–Dec. 1825b).
Type: "Habitat ad Cap b. spei", *L.-M.A. du Petit-Thouars s.n*. (B-W 19612!, holo.).

*Pleopeltis lepidota* (Willd. ex Schltdl.) C.Presl, Tentamen pteridographiae: 193 (Oct. 1836).

*D. lepidota* (Willd. ex Schltdl.) Fée, Cinquième mémoires sur la famille des fougères: 270 (1852).

*Polypodium lepidotum* Willd. ex Schltdl. var. *angustifolium* Schltdl., Adumbrationes plantarum 2: 17 (Oct.–Dec. 1825b).
Type: "Cap. bon. spei", *C.H. Bergius s.n*. [HAL81854 (Braun 1998: 17)].

*Polypodium lepidotum* Willd. var. *latifolium* Schltdl., Adumbrationes plantarum 2: 17 (Oct.–Dec. 1825b).
Type: as for *Polypodium macrocarpum* Willd. (B-W19629).

*Pleopeltis helenae* C.Presl, Tentamen pteridographiae: 193 (Oct. 1836), nom. nud. [McNeill et al. (2006) Art. 32.1(d)].

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan, Grande Comore), Coté d'Ivoire, DRC, Ethiopia, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Réunion, Rwanda, São Tomé, Sierra Leone, Somalia, Socotra, South Africa, St Helena, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pleopeltis polypodioides** *(L.) E.G.Andrews & Windham* subsp. **ecklonii** *(Kunze) J.P.Roux*, comb. nov.

*Polypodium ecklonii* Kunze in Linnaea 10: 498 (1836), as '*ekloni*'.
Type: "Aendem in arboris parasiticum in rupium faucibus inter Bashee et Key", *J.F. Drège s.n*. (B!, lecto.), designated by Roux (1986: 354); "Ubique in sylvis ad arboris inter Key et Omsamcaba, 200–700 ped., 1838", *J.F. Drège s.n*. (BM!, syn.).

*Polypodium polypodioides* (L.) Watt subsp. *ecklonii* (Kunze) Schelpe in Journal of South African Botany 30,4: 189 (21 Oct. 1964).

*Marginaria ecklonii* (Kunze) Pic.Serm. in Webbia 31,1: 247 (1977a).

*Lepicystis polypodioides* (L.) Hitchc. var. *ecklonii* (Kunze) Hieron. in Engl. & Drude, Die Vegetation der Erde 9,2: 55 (Feb. 1908).

*L. incana* (Sw.) J.Sm., Journal of Botany (W.J. Hooker, ed.) 4: 56 (1842a).

*Polypodium incanum* sensu Sim, The ferns of South Africa: 194, pl. CXI, t. b–d (1892).

*Polypodium polypodioides* sensu Sim, The ferns of South Africa, edn 2: 271, pl. 136, t. b–d (1915), non (L.) Watt (1867: 158), s. str.

Distribution: Ethiopia, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Zimbabwe.

See Plate 7A.

## ×PLEOPODIUM

**×Pleopodium** *Schelpe & N.C.Anthony* in Bothalia 15: 557 (1985b). Type: ×*Pleopodium simianum* Schelpe & N.C.Anthony.

**×Pleopodium simianum** *Schelpe & N.C.Anthony* in Bothalia 15: 557 (1985b).
Type: 'Natal, Lions River District, Everglades', *E.J. Moll 1263* (BOL128024!, holo.; PRE0094328, iso.).

*Polypodium lanceolatum* L. var. *sinuatum* Sim, The ferns of South Africa: 202, pl. CXVIII (1892).
Type: 'Tsitsikamma', *W.G. Atherstone s.n*. (K, syn.); 'Fordyce Tree', *J.H. Holland s.n*. (NBG0080444-0!, syn.); 'Boschberg', *MacOwan s.n*. (not located).

*Pleopeltis macrocarpa* (Bory ex Willd.) Kaulf. f. *sinuata* (Sim) Schelpe in Contributions from the Bolus Herbarium 1: 96 (17 Dec. 1969b).

Distribution: Kenya, South Africa, Uganda, Zimbabwe.

## POLYPODIUM

**Polypodium** *L*., Species plantarum 2: 1082 (1 May 1753). Type: *Polypodium vulgare* L., designated by Cavanilles (1799: 115).

**Polypodium cambricum** *L*., Species plantarum 2: 1086, 1087 (1 May 1753). Review by Pichi Sermolli 40,1: 49–50 (1986).
Provenance: 'Habitat in Anglia', Lectotype: Herb. Linn. No. 1251.9 (LINN), designated by Nardi (1979: 426).

Distribution: Algeria, Morocco, Tunisia.

**Polypodium ensiforme** *Thunb*., Prodromus plantarum capensium: 172 (1800).
Type: Grootvadersbosch, *C.P. Thunberg s.n*. (UPS-Thunb 24492!, holo.).

*Marginaria ensiformis* (Thunb.) C.Presl, Tentamen pteridographiae: 188 (Oct. 1836).

*Phlebodium ensiforme* (Thunb.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 59 (1842a).

*Gonophlebium ensiforme* (Thunb.) Fée, Cinquième mémoires sur la famille des fougères: 255 (1852).

*Phymatodes ensiformis* (Thunb.) Schelpe in Journal of South African Botany 35,2: 135 (1969a).

*Phymatosorus ensiformis* (Thunb.) Pic.Serm. in Webbia 28,2: 459 (1973b).

*Microsorum ensiforme* (Thunb.) Schelpe in Schelpe & N.C.Anthony in Contributions from the Bolus Herbarium 10: 151 (2 Apr. 1982), as '*Microsorium*'.

Distribution: South Africa.

**Polypodium vulgare** *L.*, Species plantarum 2: 1085 (1 May 1753).
Provenance: 'Habitat in Europae rimis rupium'. Lectotype: Herb. Burser XX: 44 (UPS, lecto.), designated by Jonsell & Jarvis (1993: 78).

*Ctenopteris vulgaris* (L.) Newman in The Phytologist 2: 276 (1845).

Chromosome number: allotetraploid, n = 74, 2n = 148 (Ferrarini *et al*. 1986: 53).

Distribution: Algeria, Lesotho, Libya, Morocco, South Africa, Tunisia.

See Plate 7B.

## PYRROSIA

**Pyrrosia** *Mirb.* in Histoire naturelle des végétaux, classés par familles 4: 70 (21 Nov. 1802b). Type: *Pyrrosia chinensis* Mirb. (now *Pyrrosia stigmosa* (Sw.) Ching; *Polypodium stigmosum* Sw.).

*Candollea* Mirb. in Histoire naturelle des végétaux, classés par familles 4: 69 (21 Nov. 1802b), non *Candollea* Labill. (1806: 33). Type: *Candollea longifolia* Mirb.; now *Pyrrosia longifolia* (Burm.) C.V.Morton.

*Cyclophorus* Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 300 (1811). Lectotype: *Cyclophorus adnascens* (Sw.) Desv.; *Polypodium adnascens* Sw. (now *Pyrrosia lanceolata* (L.) Farw.), designated by Copeland (1929a: 102).

*Niphobolus* Kaulf., Enumeratio filicum: 124 (Oct. 1824), nom. superfl. [McNeill *et al.* (2006) Art. 52.1]. Type: As for *Cyclophorus* Desv.

*Polypodium* L. subgen. *Niphobolus* (Kaulf.) Hook., Species filicum 5,17: 43 (May 1864a).

*Cyclophorus* Desv. sect. *Niphobolus* (Kaulf.) Alderw., Malayan ferns: 678 (1909), nom. superfl.

**Pyrrosia africana** *(Kunze) F.Ballard* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1937,6: 349 (1937), as '*Pyrrhosia*'.

*Niphobolus africanus* Kunze in Linnaea 10: 501 (1836), as forma *α major*.
Type: "Prope missionis coloniam inter Omgaziana et Omtata, in praerupto rupestris, alt. 800 ped.", *J.F. Drège s.n*. (BM000785597!, lecto.), designated by Roux (1986: 354); (B20 0130222, L, P, WAG, iso.).

*Cyclophorus africanus* (Kunze) C.Chr., Index filicum: 197 (2 Oct. 1905).

*Gyrosorium africanum* (Kunze) C.Presl, Epimeliae botanicae: 140 (1851).

*N. africanus* Kunze f. *β minor* Kunze in Linnaea 10: 501 (1836).
Type: "Prope missionis coloniam inter Omgaziana et Omtata, ad truncos arborum", *J.F. Drège s.n*. (BM!, lecto.), designated by Roux (1986: 354); (B20 0130221!, BM, L, P, WAG, iso.).

*Polypodium africanum* (Kunze) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,1: 131, pl. 3, figs 11, 12 (1856b), non Desv. (1827: 239).

Distribution: South Africa.

See Plate 7C.

**Pyrrosia heterophylla** *(L.) M.G.Price* in Kalikasan 3,3: 177 (1973).

*Acrostichum heterophyllum* L., Species plantarum 2: 1067 (1 May 1753), excl. Afric. specim.
Provenance: 'Habitat in Malabaria, Zeylona, Africa'. Lectotype: Herb. Hermann 3: 57; 4: 29, No. 378 (BM000628016), designated by Sledge (1960: 135).

*Drymoglossum heterophyllum* (L.) Trimen in Journal of the Linnean Society, Botany 24,160: 152 (1888).

Distribution: Seychelles.

**Pyrrosia lanceolata** *(L.) Farw*. in The American Midland Naturalist 12,8: 245 (Mar. 1931), as *'Pyrrhosia lanceolatus*'.

*Acrostichum lanceolatum* L., Species plantarum 2: 1067 (1 May 1753).
Provenance: 'Habitat in India'. Lectotype: Herb. Hermann 1: 3, No. 380 (BM000621235), designated by Tardieu-Blot (1964b: 201).

*Candollea lanceolata* (L.) Mirb. in Histoire naturelle des végétaux, classés par familles 5: 89 (21 Nov. 1802c), pro syn.

*Gymnopteris lanceolata* (L.) T.Moore, Index filicum 2,1: 10 (1857i).

*Niphobolus lanceolatus* (L.) Trimen in Journal of the Linnean Society, Botany 24,160: 152 (1888), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non *N. lanceolatus* Keyserl. (1873: 39).

*Cyclophorus lanceolatus* (L.) Alston in Journal of Botany, British and Foreign 69: 102 (1931a).

*A. dubium* Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 120, 121 (3 Sep. 1810).
Type: 'Cette plante croît à l'île Borbon', *sine coll. s.n*. (P00482683!, holo.).

*Polypodium dubium* (Poir.) Kuhn, Filices africanae: 147 (Oct. 1868).

*Polypodium spissum* Bory ex Willd., Species plantarum, edn 4, 5,1: 146 (25–27 Jun. 1810).
Type: "Habitat in insula Borbonia", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19627!, holo.; P00482634!, iso.).

*Cyclophorus spissus* (Bory ex Willd.) Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 301 (1811).

*N. spissus* (Bory ex Willd.) Kaulf., Enumeratio filicum: 126 (Oct. 1824).

*N. adnascens* Kaulf. var. *spissum* (Bory ex Willd.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 37 (1873).

*Cyclophorus heterophyllus* Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 301 (1811).
Type: 'Habitat in insulis Sechelles', *P. Commerson s.n*. (P, holo.).

*N. heterophyllus* (Desv.) Spreng., Systema vegetabilium, edn 16, 4,1: 44 (Jan. 1827).

*N. tener* Giesenh., Die Farngattung Niphobolus: 211, 212 (Dec. 1901).
Type: 'Ile Bourbon, 1892', *H.J. de Cordemoy s.n*. (M, holo.; P00482635!, iso.).

*Cyclophorus tener* (Giesenh.) C.Chr., Index filicum: 201 (2 Oct. 1905).

*N. spissus* (Bory ex Willd.) Kaulf. var. *continentalis* Hieron. in Die Vegetation der Erde 9,2: 55, fig. 53 (Feb. 1908).
Type: Tanzania, east Usambaras, Sigi Valley, near Longuza, *H.G.A. Engler 382* (B20 0041150!, lecto.), designated by Hovenkamp (1986: 194); (P00482636!, isolecto.).

*Cyclophorus spissus* (Bory ex Willd.) Desv. var. *continentalis* (Hieron.) Hieron. in Botanische Jahrbücher 46,3: 399 (1911).

Distribution: Cameroon, Central African Republic, Congo, DRC, Gabon, Madagascar, Mauritius, Mozambique, Príncipe, Réunion, Rodrigues Isl., Tanzania, Uganda.

**Pyrrosia niphoboloides** *(Luerss.) M.G.Price* in Kalikasan 3,3: 177 (1973).

*Taenitis niphoboloides* Luerss. in Adhandlungen herausgegeben vom Naturwissenschaftlichen Vereine zu Bremen 7: 49, pl. 1, figs 3–5 (1882), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non (Kunze) T.Moore (1857b: xxx). Type: 'Alabé, auf Baumstammen kriechend, Mitte Juni 1878', *D.C. Rutenburg s.n*. (P00482637!, holo.).

*Drymoglossum niphoboloides* (Luerss.) Baker in Hooker's Icones Plantarum, ser. 3, 7: pl. 1686 (Jan. 1887a).

Distribution: Madagascar.

**Pyrrosia rhodesiana** *(C.Chr.) Schelpe* in Journal of South African Botany 18,3: 126, fig. 1, t. 6, fig. 2, t. 1 (4 Dec. 1952b).

*Cyclophorus rhodesianus* C.Chr. in Dansk Botanisk Arkiv 7: 161 (Oct. 1932b).
Type: 'Southern Rhodesia: Umtali, epiphytic in forest 5200 ft.', *F. Eyles 4472* (K000435925, K000435926, holo., BOL128023, PRE0752425-0, iso.).

*C. oblanceolatus* C.Chr. in Dansk Botanisk Arkiv 7: 160, pl. 61, figs 4–6 (Oct. 1932b).
Type: Madagascar. 'Ankaizinana, 1200, 26 April 1923', *R. Decary 1753* (BM, holo.; P00482638!, iso.).

*C. madagascariensis* C.Chr. in Dansk Botanisk Arkiv 7: 161, pl. 61, figs 7–10 (Oct. 1932b).
Type: Madagascar. 'South of Moramanga, 8 Febr. 1930', *R. Decary 6960* (BM, holo.; P0482640!, iso.).

*Pyrrosia madagascariensis* (C.Chr.) Schelpe in Journal of South African Botany 18,3: 133 (4 Dec. 1952b).

Distribution: Madagascar, Malawi, Mozambique, Tanzania, Uganda, Zimbabwe.

**Pyrrosia schimperiana** *(Mett. ex Kuhn) Alston* in Journal of Botany, British and Foreign 72,861, Supplement: 8 (1934a), var. **schimperiana**.

*Polypodium schimperianum* Mett. ex Kuhn, Filices africanae: 152 (Oct. 1868).
Type: "Abyssinia, Dscha-Dsche, 1854", *A.F.W. Schimper 1441* (B20 0041098, B20 0041099, B20 0041100, lecto.), designated by Schelpe (1952b: 129); (BR, P00482642!, P00482643!, P00482644!, isolecto.); 'Angola', *F.M.J. Welwitsch*; iter angolense 152 (not located).

*Niphobolus schimperianus* (Mett. ex Kuhn) Giesenh. ex Diels in Die natürlichen Pflanzenfamilien 1,4: 325 (Oct. 1899b).

*Cyclophorus schimperianus* (Mett. ex Kuhn) C.Chr., Index filicum: 200 (2 Oct. 1905).

*N. mechowii* Brause & Hieron. in Die Vegetation der Erde 9,2: 55 (Feb. 1908), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*C. mechowii* Brause & Hieron. in Botanische Jahrbücher 46,3: 395, 396 (1911).
Type: 'Kamerun: Ambas Bay', *G. Mann 788* (B20 0091709, lecto.), designated by Schelpe (1952b: 130); (BM, K000435929, isolecto.); 'Im Urwalde auf der Barombi-Höhe auf Bäumen, 13 Mai 1889', *P.R. Preuss 195* (B20 0040950, syn.); 'Angola: bei Pungo Andongo, Januar bis April 1879', *Theusz*, bei Alexander v. Mechows Expedition 32 (B20 0091708, P00482641!, syn.); 'Zwischen Ngom und Songolong 800 m ü. M. an Stämmen der Bäume buschwaldähnlicher Galeriewaldungen mit viel Sträuchern, Lianen usw.,18 Okt. 1909', *C. Ledermann 5642* (B20 0040947, syn.).

*Pyrrosia schimperiana* (Mett. ex Kuhn) Alston var. *mechowii* (Brause & Hieron.) Schelpe in Journal of South African Botany 18,3: 129, fig. 1, t. 2, 3 (4 Dec. 1952b).

*Pyrrosia mechowii* (Brause & Hieron.) Alston in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 37 (1954).

Distribution: Angola, Burundi, Central African Republic, Congo, Ethiopia, Guinea, Kenya, Liberia, Malawi, Mozambique, Rwanda, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Pyrrosia schimperiana** *(Mett. ex Kuhn) Alston* var. **liebuschii** *(Hieron.) Hovenkamp* in Blumea 30,1: 208 (1984).

*Cyclophorus liebuschii* Hieron. in Botanische Jahrbücher 46,3: 398 (1911).
Type: 'Deutsch-Ostafrika: bei Lutindi in Usambara', 1900, *G. Liebusch s.n*. (B20 0091701, lecto.), designated by Schelpe (1952b: 131); 'An Felsen und Bäumen an sonnigen Stellen bei Amani 400–900 m ü. M. März 1903', *O. Warnecke 316* (B20 0040832, B20 0091699, syn.); 'An schattigen Orten an den Stämmen von Urwaldbäumen bei Amani, März 1903', *O. Warnecke 328* (B20 0040833, B20 0040834, syn.); 'Weg nach den Sigital in der Nähe der Kwamkujofälle bei Amani an Bäumen, 5 Juni 1905', *K.P.J.G. Braun 736* (B20 0040835, syn.).

*Niphobolus liebuschii* (Hieron.) Peter in Feddes Repertorium, Beiheft 40,1: 32 (1929).

*P. liebuschii* (Hieron.) Schelpe in Journal of South African Botany 18,3: 131, t. 1, fig. 1 (4 Dec. 1952b).

Distribution: Tanzania.

**Pyrrosia stolzii** *(Hieron.) Schelpe* in Journal of South African Botany 18,3: 133, fig. 1, t. 8, fig. 2, t. 5 (4 Dec. 1952b).

*Niphobolus stolzii* Hieron. in Die Vegetation der Erde 9,2: 55 (Feb. 1908), as '*stoltzii*'.
Type: 'Kondoland aus einer Höhe von 1 450 m ü. M., 2-VII-99', *A. Stolz 96* (B20 0130218, holo.; P00482645!, P00482646!, iso.).

*Cyclophorus stolzii* (Hieron.) Hieron. in Botanische Jahrbücher 46,3: 396 (1911), as '*stoltzii*'.

Distribution: Malawi, Tanzania, Zambia.

## TERPSICHORE

**Terpsichore** *A.R.Sm.* in Novon 3,4: 479 (29 Dec. 1993). Type: *Terpsichore asplenifolium* (L.) A.R.Sm.; *Polypodium asplenifolium* L.

**Terpsichore cultrata** *(Bory ex Willd.) A.R.Sm*. in Novon 3,4: 486 (29 Dec. 1993).

*Polypodium cultratum* Bory ex Willd., Species plantarum, edn 4, 5,1: 187 (25–27 Jun. 1810).
Type: 'Habitat in Jamaicae et Martinicae arboribus', *O. Swartz s.n*. (B-W 19674-01 0, holo.).

*Grammitis cultrata* (Bory ex Willd.) Proctor in Rhodora 63,746: 35 (Feb. 1961).

*Xiphopteris cultrata* (Bory ex Willd.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 217 (1967).

*P. elasticum* Bory ex Willd., Species plantarum, edn 4, 5,1: 183 (25–27 Jun. 1810).
Type: 'Habitat in montibus altis insulae Borboniae, arboribus parasiticum', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19675-01 0, holo.).

*P. cultratum* Bory ex Willd. var. *elasticum* (Bory ex Willd.) Baker in Synopsis filicum, edn 2: 327 (Oct. 1874a).
Type: 'Habitat in montibus altis insulae Borboniae, arboribus parasiticum', *sine coll. s.n*. (not located).

*Ctenopteris elastica* (Bory ex Willd.) Copel. in The Philippine Journal of Science 84,4: 426 (Dec. 1956).

*X. elastica* (Bory ex Willd.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 27 (1956a).

*P. flexile* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 16,1: 9, 10, t. 2, fig. 3 (1866a). Type: "Ins. Mauritii", *F.W. Sieber 54* (B20 0122256!, holo; B20 0122251!, B20 0122257!, syn.); 'Habitat in insulis Borboniae et Mauritii', *F.W. Sieber 291* (B20 0122253!, syn.).

*P. asplenifolium* L. var. *minor* Mett. ex Kuhn, Filices africanae: 146 (Oct. 1868).

*P. asplenifolium* sensu Kuhn, Filices africanae (Oct. 1868: 146), non L. (1753: 1084, 1085).
Note: *Terpsichore asplenifolia* (L.) A.R.Sm. (*Polypodium asplenifolium* L.), is restricted to tropical America.

Distribution: Bioko, Cameroon, Malawi, Madagascar, Mauritius, Réunion, Seychelles.

**Terpsichore kirkii** *Parris* in Kew Bulletin 57,2: 431, fig. 1, t. A–D (2002).
Type: 'Malawi, Shire, Zambesi Exp.', *J. Kirk s.n.* (K000229253, holo.).

Distribution: Malawi.

## ZYGOPHLEBIA

**Zygophlebia** *L.E.Bishop* in American Fern Journal 79,3: 107 (1989). Type: *Zygophlebium sectifrons* (Kunze ex Mett.) L.E.Bishop; *Polypodium sectifrons* Kunze ex Mett.

**Zygophlebia anjanaharibensis** *Rakotondr.* in Taxon 55,1: 147, figs 2, 3B, D, 4E–H (Feb. 2006).
Type: 'Madagascar, Province d'Antsiranana, région d'Andapa, Massif d'Anjanaharibe-Sud, versant ouest, 7 Nov. 1999', *F. Rakotondrainibe & D. Florens 5184* (P00518461, holo.).

Distribution: Madagascar.

**Zygophlebia devoluta** *(Baker) Parris* in Kew Bulletin 57,2: 432 (2002).

*Polypodium devolutum* Baker in Journal of the Linnean Society, Botany 15: 419, 420 (1876b).
Type: Madagascar, *W. Pool s.n.* (K000227541, holo.).

*Ctenopteris devoluta* (Baker) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

*Xiphopteris flabelliformis* sensu Schippers in Fern Gazette 14,5: 192 (1993), non (Poir.) Schelpe (1967: 217).

*X. villosissima* sensu Schelpe in Contributions from the Bolus Herbarium 1: 8 (1969b), p.p., non (Hook.) Alston (1956a: 27).

Distribution: Madagascar, Tanzania.

**Zygophlebia forsythiana** *(Baker) Parris* in Kew Bulletin 57,2: 432 (2002).

*Polypodium forsythianum* Baker in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1897: 300 (1897).
Type: 'Madagascar. Forest of Ambohimitombo, province of Tanala, alt. 1450–1560 ft.', *C.I. Forsyth-Mayor 200* (K000227542, holo.).

Distribution: Madagascar.

**Zygophlebia goodmanii** *Rakotondr.* in Taxon 55,1: 145, 146, figs 1, 3A, C, E, F, 4A–D (Feb. 2006).
Type: 'Madagascar, Province de Fianarantsoa, forêt de Vinanitelo, alt. 1 225 m, 30 Oct. 2000', *F. Rakotondrainibe, M. Andriambololona & H. Rasolohery 6168* (P00212737, holo.; TEF, iso.).

Distribution: Madagascar.

**Zygophlebia humbertii** *(C.Chr.) Parris* in Kew Bulletin 57,2: 433 (2002).

*Polypodium humbertii* C.Chr. in Archives de Botanique, Bulletin Mensuel 2,12: 215, 216 (1928).
Type: Madagascar. 'Massif d'Andringitra, Iratsy, épiphyte', 1924, *H. Humbert 3752* (BM000585379, holo.).

*Ctenopteris humbertii* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

Distribution: Madagascar.

**Zygophlebia major** *(Reimers) Parris* in Kew Bulletin 57,2: 433 (2002).

*Polypodium villosissimum* Hook. var. *majus* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 937 (1933).
Type: Tanganyika. 'Uluguru-Gebirge, NW., Bondua, ± 2 060 m, Nebelwald, gruppenweise an Bäumen, 24 Nov. 1932', *H.J. Schlieben 3018* (B20 0122284!, holo.).

*Xiphopteris villosissima* sensu Iversen in Dansk Botanisk Arkiv 7: 151, t. 6 (1932), non (Hook.) Alston (1956a: 27).

*Z. villosissima* sensu R.J.Johns, Pteridophytes of tropical East Africa: 49 (1991), non (Hook.) L.E.Bishop (1989: 117).

Distribution: Tanzania.

**Zygophlebia subpinnata** *(Baker) L.E.Bishop ex Parris* in Kew Bulletin 57,2: 433 ( 2002).

*Polypodium subpinnatum* Baker in Journal of the Linnean Society, Botany 15: 419 (1876b).
Type: Madagascar, Antananarivo, *W. Pool s.n.* (K000227543, holo.; K000227544, iso.).

*Xiphopteris villosissima* (Hook.) Alston subsp. *subpinnata* (Baker) Schelpe in Contributions from the Bolus Herbarium 1: 8 (17 Dec. 1969b).

Distribution: Madagascar.

**Zygophlebia torulosa** *(Baker) Parris* in Kew Bulletin 57,2: 433 (2002).

*Polypodium torulosum* Baker in Journal of the Linnean Society, Botany 16: 204 (1877a).
Type: Madagascar, near Andrangaloaka, *H. Gilpin s.n.* (K000227545, holo.).

*Ctenopteris torulosa* (Baker) Tardieu in Notulae Systematicae (Paris) 15,4: 445 (1959d).

Distribution: Madagascar, Réunion.

**Zygophlebia villosissima** *(Hook.) L.E.Bishop* in American Fern Journal 79,3: 117 (1989).

*Polypodium villosissimum* Hook., Species filicum 4,15/16: 197 (1863).
Type: 'Sierra Leone, Sugar-loaf Mountains', *C. Barter s.n.* (K000227554, lecto.), designated by Schelpe (1969b: 8).

*Grammitis villosissima* (Hook.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 241 (1941a).

*Ctenopteris villosissima* (Hook.) W.J.Harley in Contributions of the Gray Herbarium of Harvard University 177: 92, 93 (1955).

*Xiphopteris villosissima* (Hook.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 27 (1956a).

*X. villosissima* (Hook.) Alston var. *laticellulata* Benl in Nova Hedwigia 27,1/2: 152 (1976).
Type: 'Cameroon', *G. & U. Benl No. Ka 70-71/27* (M, holo.; BM, K000435895, FI-PS, iso.).

Distribution: Annobon, Bioko, Cameroon, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Guinea, Liberia, Madagascar, Malawi, Rwanda, São Tomé, Sierra Leone, Tanzania.

## PTERIDACEAE

**Pteridaceae** *E.D.M.Kirchn*., Schul-Botanik oder kurze Naturgeschichte der Pflanzen: 109 (13–20 Oct. 1831), as '*Pteroideae*'. Type: *Pteris* L.

*Pteridaceae* Rchb. sect. *Taenitideae* C.Presl, Tentamen pteridographiae: 222 (Oct. 1836). Type: *Taenitis* Willd. ex Spreng.

*Polypodiaceae J.Presl & C.Presl* subfam. *Pteridoideae* C.Chr. in Manual of pteridology: 536 (3 Apr. 1938), p.p., nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Type: *Pteris* L.

*Sinopteridaceae* Koidz. tr. *Onychieae* Ching in Sunyatsenia 5,4: 225 (1940a). Type: *Onychium* Kaulf.

*Cryptogrammaceae* Pic.Serm. tr. *Onychieae* (Ching) Pic.Serm. in Webbia 17,2: 306 (20 Apr. 1963). Type: *Onychium* Kaulf.

*Actiniopteridaceae* Pic.Serm. in Webbia 17,1: 5, 6 (31 Aug. 1962). Type: *Actiniopteris* Link.

*Adiantaceae* (C.Presl) Ching subfam. *Pteridoideae* C.Chr. ex Crabbe, Jermy & Mickel in Fern Gazette 11,2/3: 153 (30 Jul. 1975). Type: *Pteris* L.

*Pteridaceae* Rchb. subfam. *Taenitidoideae* (C.Presl) R.M.Tryon in American Fern Journal 76,4: 184 (1986a). Type: *Taenitis* Willd. ex Spring.

### ACTINIOPTERIS

**Actiniopteris** *Link*, Filicum species: 73, 79, 80 (Oct. 1841). Lectotype: *Actiniopteris radiata* (J.Köning ex Sw.) Link; *Asplenium radiatum* J.König ex Sw., designated by Pichi Sermolli (1962: 6).

**Actiniopteris australis** *(L.f.) Link*, Filicum species: 80 (Oct. 1841).

*Acrostichum australe* L.f., Supplementum plantarum: 444 (Apr. 1782).
Type: "31. *Acrostichum* des Isles de France & de Bourbon", *P. Sonnerat per A. Thouin s.n*. (LINN 1622.51, holo.).

*Asplenium australe* (L.f.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 50 (1801).

*Belvisia australis* (L.f.) Mirb. in Histoire naturelle des végétaux, classés par familles 5: 115 (21 Nov. 1802c).

*Pteris australis* (L.f.) Thouars, Mélanges de botanique et des voyages: 11 (1811).

*Acropteris australis* (L.f.) Link, Hortus regius botanicus berolinensis 2: 56 (Jul.–Dec. 1833b).

*Blechnum flabellatum* C.Presl, Tentamen pteridographiae: 103 (Oct. 1836), nom. nov. for *Asplenium australe* (L.f.) Sw., non Brack. (1854: 173).

*P. dichotoma* (Forssk.) Kuhn var. *australis* (L.f.) Kuhn, Filices africanae: 18 (Oct. 1868).

*Actiniopteris dichotoma* (Forssk.) Kuhn var. *australis* (L.f.) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 18 (Aug.–Sep. 1879).

*P. dichotoma* (Forssk.) Kuhn var. *elongata* Mett. ex Kuhn, Filices africanae: 80 (Oct. 1868).
Type: 'Nubia, montes Soturba', *Schweinfurth 582, 584* (not located); 'Abyssinia', *Steudner s.n., Kretschmer s.n.* (not located); 'Prope Enderder', *A.F.W. Schimper 577* (not located); 'Ins. Bourboniae', *Boivin 870, Gaudichaud s.n*. (not located); 'Ins. Mauritii', *Flügge s.n.* (B-Willd. 19872, syn.); 'Ins. Sechellae', *Pervillé s.n*. (not located).

*Acropteris radiata* (König ex Sw.) Link var. *australis* Hook., Species filicum 3,10/12: 276 (Nov. 1859–Apr. 1860).
Type: 'Mauritius and Bourbon', *P. Sonnerat, D. Carmichael s.n*. (not located); 'Schoata, near Enderder, Abyssinia', *A.F.W. Schimper 577* (not located).

Distribution: Mauritius, Réunion.

**Actiniopteris dimorpha** *Pic.Serm*. in Webbia 17,1: 9, 18–20, fig. 2, t. a–c (31 Aug. 1962), subsp. **dimorpha**.
Type: 'Südilchen Ostafrika (Tanganyika Terr.) Bezirk MahengeL Sali, ± 35 km südlich Station Mahenge, 950 m, Ubesifluss, sonnige Felswad, 21.3.1932', *H.J. Schlieben 1938* (BM!, holo.; P00466522!, iso.).

*A. dichotoma* sensu Hieron. in Botanische Jahrbücher 28: 345 (1900a), non (Fossk.) Kuhn (1871: 505).

Distribution: Botswana, Burundi, Comoro Isl., Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Réunion, Somalia, Sudan, Souh Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Actiniopteris dimorpha** *Pic.Serm*. subsp. **diversiformis** *Kornaś* in Bulletin du Jardin Botanique National de Belgique 52,3/4: 282, fig. 12, t. a–c (1982).
Type: 'Zambia, Central Province, Kabwe Distr., Muka Mwanji Hills, near Kalwelwe, 25 km SSW of Kabwe, 14°41'S, 28°21'E, 1 220 m, Jan. 1973', *J. Kornaś 3019* (KRA, holo.; BR, FI-PS, K, iso.).

Distribution: Zambia.

**Actiniopteris pauciloba** *Pic.Serm*. in Webbia 17,1: 21, 22, fig. 3, t. a, b (31 Aug. 1962).
Type: 'Angola, Pungo Andongo, 3 500 m, ad rupes gneisiacas humo parco ast tectus humidiusculas Praesidii sat frequens ast unico Barrancos de Catete, Dec. 1956.', *F.M.J. Welwitsch 79* (BM, holo.; K000435448!, iso.).

*A. kornasii* Medw.-Kornaś in Fragmenta Floristica et Geobotanica 44,1: 72, figs 1–4 (1999).
Type: 'Congo. Upper Katanga. Katangan Copper Belt, Likasi region, Mindigi, alt. 1 400–1 420 m, lat. 11°06'S, long. 26°10'E, 3.04.1981', *F. Malaisse 11751* (KRA, holo.; BR, iso.).

*A. pauciloba* Pic.Serm. var. *stricta* Medw.-Kornaś in Prace Botaniczne 35: 91 (2000).
Type: Democratic Republic of Congo: Upper Katanga. '5 km from Sakania, 1 260 m', *Lukuesa 939* (KRA, holo.; BR, iso.).

*A. australis* sensu Carruth. in Catalogue of the African plants collected by Dr F. Welwitsch in 1853–61 2,2: 271 (Mar. 1901), non (L.f.) Link (1841: 80).

Distribution: Angola, DRC, Malawi, Tanzania, Zambia, Zimbabwe.

**Actiniopteris radiata** *(J.König ex Sw.) Link*, Filicum species: 80 (Oct. 1841).

*Asplenium radiatum* J.König ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 50 (1801).
Type: 'Habitat in India'. *D. Dris*. König misit Nob. Dnus Banks, 1776 Herb. Montin (S-PA!, lecto.), designated by Pichi Sermolli (1962: 11).

*Acrostichum radiatum* (J.König ex Sw.) Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 128 (3 Sep. 1810).

*Actiniopteris australis* (L.f.) Link var. *radiata* (J.König ex Sw.) C.Chr. in Dansk Botanisk Arkiv 7: 125 (Oct. 1932b).

*Acropteris radiata* (J.König ex Sw.) Link, Hortus regius botanicus berolinensis 2: 56 (Jul.–Dec. 1833b).

*Blechnum radiatum* (J.König ex Sw.) C.Presl, Tentamen pteridographiae: 103 (Oct. 1836).

*Pteris radiata* (J.König ex Sw.) Bojer, Hortus mauritianus: 399 (1837).

*Acrostichum australe* Vahl, Symbolae botanicae 1: 84, pl. 25 (Aug.–Oct. 1790), non L.f. (1782: 444).
Type: As for *Acrostichum dichotomum* Forssk., non L. (1753: 1068).

*Asplenium polydactylon* Webb in Niger Flora: 193 (Oct. 1849).
Type: 'In herb. ins. Cap. Vir.' (Cape Verde Isl.), *P.B. Webb s.n.* (B20 0001538, lecto.), designated by Lobin, in Lobin *et al.* (1998: 17).

*Actiniopteris australis* Ettingsh., Die Farnkräuter der Jetzwelt: 85, pl. 51, figs 10–13 (Nov.–Dec. 1864), non Link (1841: 73, 79).
Type: 'Neu-Holland', *sine coll. s.n.* (not located).
Notes: Ettingshausen ascribed material from 'Neu-Holland' or Australia to this species. The species, however, is confined to Afganistan, Arabia, the Indian subcontinent and Africa.

*P. dichotoma* Kuhn, Filices africanae: 18 (Oct. 1868), non L. (1753: 1076).

*Actiniopteris dichotoma* (Forssk.) Kuhn, Botanische Zeitung (Berlin) 29: 504 (1871).

*Acrostichum dichotomum* sensu Forssk., Flora aegyptico-arabica: 184 (1 Oct. 1775), non L. (1753: 1068).

*Actiniopteris radiata* sensu Hook. in Hooker's Icones Plantarum 10: pl. 975, fig. 1 (1854d).

Chromosome number: apogamous, n = 87 (Manton 1959: 79).

Distribution: Angola, Botswana, Cape Verde Isl. (Sto. Antão, Fogo), Djibouti, Egypt, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Nigeria, Réunion, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zanzibar, Zimbabwe.

**Actiniopteris semiflabellata** *Pic.Serm.* in Webbia 17,1: 24, 26, fig. 4, t. a–d (31 Aug. 1962).
Type: Ethiopia. 'Tertale, Pozzi di El Banno, si nota con frequenza, 2 Mag. 1939', *R. Corradi 26* (FI-PS, holo.; FT, iso.).

Distribution: Burundi, Cameroon, Congo, Djibouti, DRC, Egypt, Ethiopia, Kenya, Madagascar, Mauritius, Namibia, Nigeria, Réunion, Rwanda, Socotra, Somalia, Sudan, Tanzania, Uganda, Zanzibar.

## ANOGRAMMA

**Anogramma** *Link*, Filicum species: 137 (Oct. 1841). Lectotype: *Anogramma leptophylla* (L.) Link; *Polypodium leptophyllum* L., designated by Christensen (10 Oct. 1906: xxxvii).

*Pityrogramma* Link subgen. *Anogramma* (Link) Domin in Spisy vydávané Prirodovedeckou Fakultou Karlovy University 88: 9 (1928).

**Anogramma ascensionis** *(Hook.) Diels* in Die natürlichen Pflanzenfamilien 1,4: 258 (Oct. 1899b).

*Grammitis ascensionis* Hook. in Hooker's Icones Plantarum 10: pl. 967 (1854c).
Type: 'Rocks and banks on the Green Mountain, Ascension Island, alt. 1200 to 1800 feet', *J.D. Hooker s.n.* (K?, holo.).

*Gymnogramme ascensionis* (Hook.) Hook., Species filicum 5,18/20: 137 (Jun. 1864b).

Distribution: Ascension Isl. (now extinct).

**Anogramma leptophylla** *(L.) Link*, Filicum species: 137, 138 (Oct. 1841), as '*Adenogramme*'.

*Polypodium leptophyllum* L., Species plantarum 2: 1092 (1 May 1753).
Provenance: 'Habitat in Hispania, Lusitania, Galloprovincia.' Lectotype: Herb. Linn. No. 1251.56 (LINN), designated by Morton (1970a: 103).

*Asplenium leptophyllum* (L.) Sw., Observationes botanicae: 403 (May–Jul. 1791).

*Osmunda leptophylla* (L.) Savigny in Encyclopedie méthodique, Botanique 4,2: 657 (1 Nov. 1798).

*Acrostichum leptophyllum* (L.) Lam. & DC., Flore française, edn 3, 4,2: 565 (17 Sep. 1805).

*Grammitis leptophylla* (L.) Sw., Synopsis filicum: 23, 218, t. 1, fig. 6 (Mar.–Apr. 1806b).

*Gymnogramma leptophylla* (L.) Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 305 (1811).

*Hemionitis leptophylla* (L.) Lag., Genera et species plantarum: 33 (Jun.–Dec. 1816).

*Dicranodium leptophyllum* (L.) Newman, A history of British ferns, edn 3: 13 (Feb.–Mar. 1854a).

*Pityrogramma leptophylla* (L.) Domin in Spisy vydávané Prirodovedeckou Fakultou Karlovy University 88: 9 (1928).

*Gymnogramma leptophylla* (L.) Desv. var. *pinnata* Maire in Mémoires de la Société des Sciences Naturelles du Maroc 15,11: 57 (1927).
Type: 'In fissuris umbrosis rupium arenacearum in clivo meridionali Atlantis Majoris infra jugum Telouet, ad alt. 2 300 m', *sine coll. s.n.* (AL, holo.; RAB, iso.).

*Anogramma caespitosa* Pic.Serm. in Webbia 27,2: 429–431, figs 14, 15, t. A, B [1972] (28 Feb. 1973a).
Type: 'Tanzania: Kilimanjaro. Tra la Peter's Hut a la Bismarck's Hut. Al riparo di un grosso masso in luogo ombroso, molto umido e poco illuminato, lungo un ruscello. m 3 500 circa. 7.VII.1956.' *R.E.G. Pichi Sermolli 5149* (FI-PS 20661, holo.; K000049366!, iso.).

Chromosome number: n = 26 (Lovis *et al.* 1993: 151; Viane *et al.* 1996: 298).

Distribution: Algeria, Angola, Bioko, Cameroon, Cape Verde Isl. (Sto. Antão, S. Nicolau, Santiago, Fogo), Djibouti, DRC, Egypt, Ethiopia, Kenya, Libya, Madagascar, Malawi, Morocco, Namibia, Nigeria, South Africa, Sudan, Tanzania, Tunisia, Uganda, Zimbabwe.

## ERIOSORUS

**Eriosorus** *Fée*, Cinquième mémoires sur la famille des fougères: 152, pl. 13B, fig. 1 (1852). Type: *Eriosorus scandens* Fée, now *Eriosorus aureonitens* (Hook.) Copel.; *Gymnogramma aureonitens* Hook.

*Psilogramme* Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 332 (1882). Type: *Psilogramme elongata* Kuhn, *Gymnogramma elongata* (Kuhn) Hook & Grev. (= *Eriosorus cheilanthes* × *Jamesonia*), non *G. elongata* Hook. (1864a: 61).

**Eriosorus cheilanthoides** *(Sw.) A.F.Tryon* in The British Fern Gazette 9,7: 271 (24 Jun. 1966).

*Grammitis cheilanthoides* Sw., Synopsis filicum: 23, 219, 419 (Mar.–Apr. 1806b).
Type: Tristan da Cunha (Mauritius in error), *sine coll. s.n.* (S6352, holo.).

*Gymnogramma cheilanthoides* (Sw.) Kaulf., Enumeratio filicum: 71 (Oct. 1824).

*Psilogramme cheilanthoides* (Sw.) Kuhn, Festschrift zu dem Funfzigjährigen Jubiläum der Königstädtischen Realschule zu Berlin: 335 (1882).

*Asplenium filipendulifolium* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 34, pl. 4 (Oct. 1808), as '*filipendulaefolia*'.
Type: Tristan da Cunha, *L.-M.A. du Petit-Thouars s.n.* (P, holo.).

*Gymnogramma filipendulifolia* (Thouars) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5 5: 304, 305 (1811), as '*filipendulaefolia*'.

Chromosome number: dodecaploid, n = 174 (Manton & Vida 1968: 364).

Distribution: Gough Isl., Inaccessible Isl., Tristan da Cunha.

## PTERIS

**Pteris** *L.*, Species plantarum 2: 1073 (1 May 1753). Lectotype: *Pteris longifolia* L., designated by Smith (1875: 295).

*Litobrochia* C.Presl, Tentamen pteridographiae: 148 (Oct. 1836). Type: *Lithobrochia denticulata* (Sw.) C.Presl; *Pteris denticulata* Sw.

*Pteris* L. subgen. *Litobrochia* (C.Presl) Hook., Species filicum 2,7/8: 207 (Jan.–Sep. 1858).

*Pycnodoria* C.Presl, Epimeliae botanicae: 100, 101 (1851). Type: *Pycnodoria opaca* (J.Sm.) C.Presl; *Pteris opaca* J.Sm.

*Lathyropteris* Bonap. in Bulletin de l'Herbier Boissier, sér. 2, 7: 275 (1907). Type: *Lathyropteris madagascariensis* Bonap.

*Afropteris* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 5 (1956a), as '*Aropteris*'. Lectotype: *Afropteris repens* (C.Chr.) Alston; *Pteris repens* C.Chr., here designated.

**Pteris albersii** *Hieron*. in Botanische Jahrbücher 53: 389–391 (1915), subsp. **albersii**.
Type: 'Deutsch-Ostafrika: Im Hochwalde dei der Station Kwai in Höhe von 1 600 m ü. M. häufig, September 1899', *E. Albers 358* (B20 0092915!, syn.); 'als Epiphyt auf Bäumen im Urwald bei Mkusu in West-Usambara, 19 Oktober 1900', *W.C.O. Busse 365* (B20 0092914!, syn.), (P00477839!, isosyn.).

Chromosome number: tetraploid, n = 116, possibly apogamous (Walker 1962: 29).

Distribution: Tanzania.

**Pteris albersii** *Hieron*. subsp. **mufindiensis** *Verdc*. in Flora of tropical East Africa, Pteridaceae: 21 (2002b).
Type: 'Tanzania, Iringa District, Kigogo Forest', *L.D.E.F. Vesey-FitzGerald 3656*, (former Int. Red Locust Control Survey herb., holo.; K, photo).

Distribution: Tanzania.

**Pteris albersii** *Hieron*. subsp. **uaraguessensis** *Verdc*. in Flora of tropical East Africa, Pteridaceae: 19 (2002b).
Type: 'Kenya, Northern Frontier District, Uaraguess', *J.G.B. Newbould 3037* (K000435427!, holo.; K000435428!, iso.).

Distribution: Kenya.

**Pteris atrovirens** *Willd*., Species plantarum, edn 4, 5,1: 385 (25–27 Jun. 1810), f. **atrovirens**.
Type: "Habitat ad in Oware et Benin", *A.M.F.J. Palisot de Beauvois s.n*. (B-W 19995!, holo.).

*P. atrovirens* Willd. var. *inermis* Bonap. in Notes Ptéridologiques 14: 229 (23 Nov. 1923a).
Type: 'Congo belge. Lubefu River. Septembre 1910', *T. Kässner 3400* (P00477779!, holo.).

*P. spinulifera* Schumach., Beskrivels af Guineeiske planter: 459 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 233, 234 (1829).
Type: Ghana, 'Guinea', *Mortensen s.n.* (C, syn., 2 sheets); 'e Guinea', *sine coll. s.n*. (C, syn., 5 sheets).

Chromosome number: sexual tetraploid, 2n = 116 (Walker 1962: 29).

Distribution: Angola, Benin, Bioko, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Nigeria, Pemba, Príncipe, São Tomé, Seychelles, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Pteris atrovirens** *Willd*. f. **laevicosta** *Verdc*. in Flora of tropical East Africa, Pteridaceae: 13 (2002b).
Type: 'Tanzania, Lushoto District, E Usambaras, Amani, by Dodwe Stream', *R.B. Faden 70/259* (K000435426!, holo.; EA, iso.).

Distribution: Bioko, Central African Republic, Côte d'Ivoire, DRC, Gabon, Ghana, Kenya, Nigeria, Pemba, Sierra Leone, Tanzania.

**Pteris auquieri** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 219, 221, 223, figs 5, 6 (1983a).
Type: 'Rwanda, Préf. Cyangugu, au km 23 de la route de Pindura à la frontière du Burundi, forêt de Nyungwe, env. 1 720 m, 13.VIII.1974', *Auquier 3744* (LG, holo., 3 sheets; FI-PS, iso.).

Distribution: Burundi, Congo, Rwanda, Tanzania, Uganda.

**Pteris barklyae** *Mett. ex Kuhn*, Filices africanae: 77, 78 (Oct. 1868), as '*Barkleyae*' [McNeill *et al.* (2006) Art. 60.1 & Art. 11.4].
Type: "Seychelles", *A.M. Barkly s.n*. (K000435410!, syn.).

*Pellaea barklyae* Baker in Synopsis filicum 4: 151 (22 Jan. 1867b).
Type: 'Seychelles', *A.M. Barkly s.n*. (K000435410, holo.).

*Ochropteris barklyae* (Baker) Buscal. in Malpighia 28: 168 (1917).

*Afropteris barklyae (Baker) Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 6 (1956a).

Distribution: Seychelles.

**Pteris barombiensis** *Hieron*. in Botanische Jahrbücher 53: 413, 414 (1915).
Type: 'Kamerun: Im Tale Süd-südwestlich von der Station Borombi, 24 Juni 1890,' *P.R. Preuss 357* (B20 0092917, B20 0092918, holo.; P00483419!, iso.).

Distribution: Cameroon.

**Pteris bavazzanoi** *Pic.Serm*. in Webbia 27,2: 422, 424, fig. 11 [1972] (28 Feb. 1973a).
Type: 'Tanzania: Mount Meru. Foresta da 2 600 a 2 700 m. cioè al cratere (stazione di raccolta n. 23), 19.III.1968', *R. Bavazzano 54* (FI, holo.; FI-PS 25185, FI-PS 25186, iso.).

*P. kilimensis Bonap*. in Notes Ptéridologiques 7: 297 (14 Oct. 1918d), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Afrique orientale. Région Sud-Est du Kilimanjaro. Zone supérieure des forêts, 2 700 mètres

d'altitude, Octobre 1908', *Ch. Alluaud 43, 43(1), 43(2)* (P, ?holo.).
Note: a specimen *Alluaud 43* in the Paris Herbarium (P00222748) has been identified as *Asplenium normale* D.Don.

Distribution: Tanzania.

**Pteris biaurita** *L.*, Species plantarum 2: 1076 (1 May 1753).
Provenance: 'Habitat in Domingo, Martinica, Jamaica'. Lectotype: Herb. Linn. No. 1246.19 (LINN), designated by R.M. Tryon (1964: 201).

Distribution: Comores (Anjouan, Grande Comore), Madagascar, Majotte.

**Pteris buchananii** *Baker ex Sim*, The ferns of South Africa: 111, 112, pl. 46 (1892).
Type: Sunny gorge, top of Inchanga Hill, 01/05/1874, *J. Buchanan 196* (K000435447!, K000435445!, K000435446!, lecto., designated by Schelpe (1969b: 62).

*P. subquadripinnata* Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 147 (1935).
Type: 'Mt. Kenya NE, distr. Meru a Keja, communissima infesta i campi, 23-VII-1912', *Balbo 816* (TOM, holo.).

Chromosome number: sexual diploid, 2n = 58 (Walker 1962: 29).

Distribution: Ethiopia, Kenya, Malawi, South Africa, Tanzania, Uganda, Zimbabwe.

**Pteris burtonii** *Baker* in Annals of Botany (C. König, J. Sims, eds) 5: 218 (1891a), as '*burtoni*'.
Type: 'Gold Coast', *R.F. Burton & V.L. Cameron s.n.* (K000435413!, holo.).

*P. johnstonii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 218 (1891a), as '*johnstoni*'.
Type: 'Sierra Leone', *H. Johnston s.n.* (K000435414!, holo.).

*P. aethiopica* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 21, 22 (1909a).
Type: 'Côte d'Ivoire: entre Abidjan et Makonguié, dans la forêt, mai–juin 1905', *A. Chevalier 15608* (P, syn.); 'Bouroukrou, sur le chemin de fer au km 92, janvier 1907', *A. Chevalier 16752* (P, syn.).

*P. burtonii* Baker var. *aethiopica* (H.Christ) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 72, fig. 8 (1953d).

*P. atrovirens* Willd. var. *cervonii* Bonap. in Bulletin du Muséum d'Histoire Naturelle. Paris 13,6: 388 (1913).
Type: 'Mission géodésique et forestière de la Côte de l'Ivoire, en février-mars 1909', *Cervoni s.n.* (P00477786!, P00477787!, P00477788!, P00477789!, P, 2 unnumbered sheets, syn.); 'Côte d'Ivoire. Région entre l'Agnéby et la Bia', *J. Rousseau s.n.* (P00477790!, P00477791!, syn.).

Chromosome number: sexual diploid, n = 29, 2n = 58 (Walker 1962: 29).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Tanzania, Uganda.

**Pteris camerooniana** *Kuhn*, Filices africanae: 84, 207 (Oct. 1868), nom. nov. for *P. manniana* Mett. ex Kuhn, non *P. mannii* Baker (1867c: 168).
Type: as for *Pteris manniana* Mett. ex Kuhn.

*P. manniana* Mett. ex Kuhn, Filices africanae: 84 (Oct. 1868), non *P. mannii* Baker (1867c: 168).
Type: 'Africa occidentalis tropica', *G. Mann 1266* (not located); 'Montes Cameroon', *G. Mann 1385* (K000435417!, lecto.), sensu Tardieu (1964a: 155).

*P. jungneri* Brause & Hieron. in Botanische Jahrbücher 53: 388, 389 (1915).
Type: "Regio Kamerounnensis: Bibundi, bei Tsoroi, 1891 Januar", *J.R. Junger 49* (B20 0092944!, B20 0092945!, syn.); "In der Pflanzung Bibundi an einem trockenen Wasserlauf, Februar 1905", *H. Winkler 1105* (B20 0092943!, P00477774!, syn.).

*P. bonapartei* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 52 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*P. bonapartei* C.Chr. in Dansk Botanisk Arkiv 7: 129 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo, on cliffs, 800 m. alt., May 1907, *H. Perrier de la Bâthie 7852* (P00483420!, P00483421!, P00483422!, holo.; P00483423!, iso.).

*P. quadriaurita* Retz. f. *simple* Bonap. in Notes Ptéridologiques 5: 70 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique du Centre. Massif de Manongarivo. Vers 800 mètres d'altitude. Rocailles; syénite, Mai 1907', *H. Perrier de la Bâthie 7852* (P?, holo.).

Chromosome number: sexual diploid, n = 29 (Manton 1959: 79; Walker 1962: 29).

Distribution: Bioko, Cameroon, Chad, Madagascar.

**Pteris catoptera** *Kunze* in Linnaea 18: 119 (1844b), var. **catoptera**.
Type: 'Ad Portum Natalensem locis humidis umbrosis inter Omfondi et Tagela, 02–04/1842', *W. Gueinzius s.n.* (LZ†, holo.; K000435444!, lecto.; P!, isolecto.), designated by Schelpe (1969b: 66); (B20 0130211!), eligable as type.

*P. quadriaurita* Retz. subsp. *catoptera* (Kunze) Schelpe in Contributions from the Bolus Herbarium 1: 66 (17 Dec. 1969b).

*P. kameruniensis* Hieron. in Botanische Jahrbücher 53: 393, 394 (1915).
Type: 'Kamerun: In einer Galleriewaldung am Bachufer bei Kumbo in 1 700 m Höhe ü. M, 28 Dez. 1908', *C.L. Ledermann 2002* (B20 0092947!, B20 0092948!, P00483482!, syn.); 'in lichen schmalen Galeriewaldungen an felsigem Bachufer bei Babangi, 1 360 m ü. M., 28 Okt. 1909', *C.L. Ledermann 5828* (B20 0092949!, B20 0092950!, syn.).

*P. abyssinica* Hieron. in Botanische Jahrbücher 53: 404–406 (1915).
Type: 'Abyssinien: An Bachufern im Gebüsch im tiefen Schaten bei 7000 Fuss ü. M. am Amora Gettel', 24 Nov. 1863, *A.F.W. Schimper 1468* (B20 0092909!, holo.; B20 0092910!, B20 0092911!, B20 0092912!, B20 0092913!, BM!, K000435421!, P00483416!, P00483417!, iso.).

*P. quadriaurita* Retz. subsp. *abyssinica* (Hieron.) Schelpe in Contributions from the Bolus Herbarium 1: 66 (17 Dec. 1969b).

*P. quadriaurita* Retz. var. *abyssinica* (Hieron.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2 47,1: 17 (1940a).

*P. catoptera* Retz. var. *horridula* Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 216 (1967).
Type: 'Rhodesia, Umtali District, Inyamatshira Range', *N.C. Chase 4890* (BOL128022, BOL128033, BOL128034, BOL128035, BOL128036, holo.; BM, K000435431!, K000435432, SRGH, iso.).

*P. quadriaurita* sensu Sim, The ferns of South Africa: 108, 109, pl. 44 (1892).

Chromosome number: sexual diploid, 2n = 58 (Walker 1962: 29).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Comoro Isl., Cote d'Ivoire, DRC, Ethiopia, Ghana, Guinea, Kenya, Madagascar, Malawi, Mali, Mozambique, Nigeria, Rwanda, Senegal, Sierra Leone, Socotra, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pteris commutata** *Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 20 (Aug.–Sep. 1879).
Type: Congo, 'ad rivulum Diagbe', *G.A. Schweinfurth 3118* (B20 0092934!, B20 0092935!, B20 0092936!, lecto.), designated by Schelpe (1969b: 61); (BM!, K000435416!, iso.); 'Africa centralis, in regione Niam-Niam ad rivulum Mbula', *G.A. Schweinfurth 3515* (B20 0092933!, syn.).

*P. grossiloba* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 29, 30 (1909b).
Type: Congo, 'Environs d'Amadi, 6 décembre 1905', *F. Seret 339* (BR, syn.); 'entre Bambili et Amadi, novembre 1905', *F. Seret 182* (BR, syn.); 'Bena-Dibele, 20 novembre 1905', *A. Flamigni 38* (BR, syn.).

*P. pseudocretica* Bonap. in Notes Ptéridologiques 14: 313, 314 (23 Nov. 1923b).
Type: Congo, 'Kalagwa. Panga. Forêt ombragée. Sur le sol., 23 décembre 1913', *J.C.C. Bequaert 1606* (BR, P00483425!, syn.); 'Walikale-Lubutu. Forêt vierge. Sol ombragè, 20 janvier 1915', *J.C.C. Bequaert 6684* (BR, P00483424!, syn.).

Distribution: Cameroon, DRC, Sudan, Tanzania, Uganda.

**Pteris cretica** *L.*, Mantissa plantarum 1: 130 (15–31 Oct. 1767b).
Provenance: 'Hab. in Creta, Ilva insula'. Lectotype: Herb. Linn. No. 1246.7! (LINN), designated by R.M. Tryon (1964: 192).

*P. nervosa* Thunb., Flora japonica: 332 (Aug. 1784).
Type: 'Japoniae: Ganso', *C.P. Thunberg s.n.* (UPS-Thunb, holo.).

*P. serraria* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 65 (1801).
Type: Brazil, *G.W. Freyreis s.n.* (S, para.).

*P. pentaphylla* Willd., Species plantarum, edn 4, 5,1: 362 (25–27 Jun. 1810).
Type: 'Habitat in rupibus insulae Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483426!, holo.).

*P. triphylla* M.Martens & Galeotti in Mémoires de l'Académie Royale des Sciences, Lettres et Beaux Arts de Belgique 15: 51, pl. 14, fig. 1 (1842), hom. illeg. [McNeill *et al.* (2006) Art. 35.1], non J.Agardh (1839: 16).
Type: Mexico. Veracruz: Xalapa, *H. Galeotti 6393* (BR, holo.; BR, iso.).

*P. treacheriana* Baker in Journal of Botany, British and Foreign 8: 65, 66 (Mar. 1879).
Type: 'Sulu Archipelago', *F.W.T. Burbidge s.n.* (K?, holo.).

*P. lomarioides* Colenso in Transactions and Proceedings of the New Zealand Institute 13: 380, 381 (1881).
Type: 'In a wood close to the coach road near Tapuaeharuru, between Napier and Taupo', *sine coll. s.n.* (missing).

*P. cretica* L. var. *plurilobata* Bonap. in Notes Ptéridologiques 14: 311 (1923b).
Type: "Congo belge. Rutshuru. Galerie forestiére. Sol ombragé, 9-9-1914", *J.C.C. Bequaert 5618* (P00477778!, holo.).

*P. cretica* L. var. *alternata* Chiov. in Lavori dell'Istituto Botanico, Università di Modena 6,I/XI: 146 (1935).
Type: 'Mt. Kenya NE, Meru nei boschi, rara, 20-IX-1929', *Balbo 793* (not located).

*P. cretica* L. var. *balansae* Rakotondr. in The natural history of Madagascar: 310 (2003), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Chromosome number: tetraploid apomict, 2n = 116 (Walker 1962: 30).

Distribution: Angola, Algeria, Ascension Isl., Burundi, DRC, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Réunion, Rwanda, Socotra, South Africa, St Helena, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pteris croesus** *Bory*, Voyage dans les quatre principales îles des mers d'Afrique 2: 192 (Sep. 1804b).
Type: "N. au trou Caron et à la base du piton du Crac, dans l'enclos du volcan de l'ile de Mascareigne", *J.B.G.M. Bory de St.-Vincent s.n.* (P00483539, holo.).

Distribution: Réunion.

**Pteris dentata** *Forssk.*, Flora aegyptico-arabica: CXXIV, 186 (1 Oct. 1775).
Type: Yemen, montium Hadiensium, *P. Forsskål s.n.* (Lost); 'Yemen, Menacha, 2 300 m, 1889', *G.A. Schweinfurth 1402* (C, neo.; K, isoneo.), designated by Runemark (1962: 189).

*P. serrulata* Forssk., Flora aegyptico-arabica: 187 (1775), non L.f. (1782).
Type: 'Yemen, Hadie', *P. Forsskål s.n.* (C, lost; BM, lecto.), designated by Morton (1969a: 247–248).

*P. arguta* Aiton, Hortus kewensis 3: 458 (7 Aug.–1 Oct. 1789), nom. illeg.
Type: '*P. serrulata* Forsk. Nat. of Arabia, Madeira, and the Cape of Good Hope', *sine coll. s.n.* (K000435411, holo.).

*P. arguta* Aiton var. *typica* Peter in Feddes Repertorium, Beiheft 40,1: 47 (1929), nom. illeg.
Type: As for *Pteris arguta* Aiton.

*Lonchitis adscensionis* G.Forst. in Commentarii Societatis Regiae Scientiarum Gottingensis 9: 72 (1789).
Type: 'Ins. Ascensionis', *G. Forster s.n.* (B-W 20018, holo.; W!,?).

*Asplenium adscensionis* (G.Forst.) Bernh. in Abhandlungen der Kurfürstlich-Mainzischen Akademie nützlicher Wissenschaften zu Erfurt 2:18, fig. 8 (1802).

*P. arguta* Aiton var. *minor* Mett. ex Kuhn, Filices africanae: 77 (Oct. 1868).
Type: As for *Lonchitis adscensionis* G.Forst.

*P. flabellata* Thunb., Prodromus plantarum capensium: 172 (1800).
Type: 'Inter Tafelberg et Leuwkopp', *C.P. Thunberg s.n.* (UPS-Thunb 24924!, lecto.), designated by Runemark (1962: 190).

*P. arguta* Aiton var. *flabellata* (Thunb.) Mett. ex Kuhn, Filices africanae: 76 (Oct. 1868).

*P. dentata* Forssk. subsp. *flabellata* (Thunb.) Runemark in Botaniska Notiser 115,2: 190 fig. 1f, g, 2e–f, 6 (1962).

*P. ascensionensis* Sw., Synopsis filicum: 100, 294 (Mar.–Apr. 1806a), as '*adscensionis*'.
Type: 'Habitat in insula sterilissima Adscensionis', *sine coll. s.n.* (not located).

*P. flabellata* Thunb. var. *ascensionis* (Sw.) Hook., Species filicum 2,7/8: 185 (Jan.–Sep. 1858).

*P. arguta* Aiton var. *flabellata* (Thunb.) Kuhn f. *major* Mett. ex Kuhn, Filices africanae: 76, 77 (Oct. 1868).
Type: Based on *Pteris flabellata* Thunb.

*P. arguta* Aiton var. *flabellata* (Thunb.) Kuhn f. *minor* Mett. ex Kuhn, Filices africanae: 77 (Oct. 1868).
Type: As for *Lonchitis ascensionis* G.Forst.

*P. elegans* Jacq., Fragmenta botanica: 74, pl. 116 (1809).
Type: Cultivated at the Schonbrunn Gardens, Vienna, from spores originating from the Cape. *sine coll. s.n.* (not located).

*P. semiserrata* Roxb. in Tracts relative to the island of St Helena: 319 (Jan. 1816).
Type: St Helena, Sandy Bay, *J. Roxburgh s.n.* (?BM, holo.).

*P. oligodictyon* Baker in Journal of Botany, British and Foreign 1880,9: 328 (1880b).
Type: Madagascar. 'Forest of Andrangaloaka', *L. Kitching s.n.* (K?, holo.).

*P. dentata* Forssk. var. *oligodyctya* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 92, fig. 14, t. 7, 8 (May 1958b).

*P. straminea* Cordem., Flore de l'Ile de la Réunion: Cryptogamae vasculares: 52, 53 (1895), nom. nud. [McNeill *et al.* (2006) Art. 32.1 (d) & Art. 41.3].
Type: Orère, (not located).

*P. cordemoyi* C.Chr., Index filicum: 595 (2 Jul. 1906), nom. nov. for *Pteris straminea* Cordem.

Chromosome number: sexual diploid, 2n = 58 (Walker 1962: 30).

Distribution: Angola, Ascension Isl., Bioko, Burundi, Cameroon, Cape Verde Isl., DRC, Ethiopia, Ghana, Kenya, Madagascar, Malawi, Mauritius, Morocco, Mozambique, Namibia, Príncipe, Réunion, Rodriques Isl., Rwanda, São Tomé, South Africa, St Helena, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

See Plate 7D.

**Pteris ekemae** *Benl* in Nova Hedwigia 27,1/2: 147, figs 1, 2 (1976).
Type: 'Cameroon', *G. Benl no. Ka 75/49* (M, holo; BM!, iso.); 'Cameroon', *G. Benl No. Ka 75/69* (M, syn.).

Distribution: Cameroon.

**Pteris elongatiloba** *Bonap.* in Notes Ptéridologiques 5: 69, 70, pl. 50, figs 1–3 (10 Dec. 1917d), var. **elongatiloba**.
Type: Madagascar. 'Règion floristique de Centre. Haut Bemarino. Analamahitso. Vers 900 mètres d'altitude. Bois rocailleux. Août 1907', *H. Perrier de la Bâthie 7834* (P00483431!, P00483432!, P00483433!, holo.; P00483434!, P00483435!, iso.).

Distribution: Madagascar.

**Pteris elongatiloba** *Bonap.* var. **remotivenia** *Bonap.* in Notes Ptéridologiques 5: 70 (10 Dec. 1917d).
Type: Madagascar. 'Règion floristique du Centre. Entre le bassin du Mananana et du Mangoky. Mont Belambasia. 1 200 mètres d'altitude. Bois, gneiss, Septembre 1911', *H. Perrier de la Bâthie 7896* (P00483436!, P00483437!, holo.).

*P. elongatiloba* Bonap. var. *erythrorachis* Bonap. in Notes Ptéridologiques 14: 407, 408 (23 Nov. 1923c).
Type: 'Province d'Analalava. Massif d'Ankaizina. Altitude de 1 700 mètres. Forêt. 19 avril 1923', *R. Decary 1709* (P00483429!, holo.; P00483430!, iso.).

*P. elongatiloba* Bonap. var. *multipinnula* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 52 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: "Environs de Fort-Dauphin: mont Oniva (Taviala) au nord de Ranopitso. Altitude: 200–1 000 m. 25 Septembre", *H. Humbert 5881* (BM!, holo.; P00483427!, P00483428!, iso.).

*P. elongatiloba* Bonap. var. *multipinnula* C.Chr. in Dansk Botanisk Arkiv 7: 129, pl. 50, figs 4–6 (Oct. 1932b).
Type: "Environs de Fort-Dauphin: mont Oniva (Taviala) au Nord de Ranopitso", *H. Humbert 5881* (P00483427, holo.; P00483428, iso.).

Distribution: Madagascar.

**Pteris friesii** *Hieron.* in Wissenschaftliche Ergebnisse der Schwedischen Rhodesia-Kongo Expedition 1911–1912 1: 5, 6 (1914).
Type: "Rhodesia bor. orient.: Lunzua river pr. Abercorn, 8 Nov. 1911", *R.E. Fries 1220* (UPS!, holo.; B20 0051635!, fragment).

*P. quadriaurita* Retz. subsp. *friesii* (Hieron.) Schelpe in Contributions from the Bolus Herbarium 1: 66, 67 (17 Dec. 1969b).

*P. catoptera* Retz. var. *friesii* (Hieron.) Verdc. in Flora of tropical East Africa, Pteridaceae: 25 (2002b).

*P. mohasiensis* Hieron. in Botanische Jahrbücher 53: 391–393 (1915).
Type: 'Deutsch-Ostafrika: *Papyrus*-Sumpf an einem Bach nördlich des Hohasi-Sees in der Landschaft Ruanda in Westen der Kolonie, 11 Juli 1907', *G.W.J. Mildbraed 438* (B20 0092973, B20 0092974, B20 0092975, B20 0092976, P00483460!, iso.).

*P. angolensis* Hieron. in Botanische Jahrbücher 53: 395, 396 (1915).
Type: 'Angola: Enganzambe bei Pungo Andongo, 27 März 1875', *H. Soyaux 226* (B!, 2 unnumbered sheets, syn.; K000435433!, P00483418!, isosyn.).

*P. hildebrandtii* Hieron. in Botanische Jahrbücher 53: 407, 408 (1915).
Type: 'Central-Madagascar: Ampotaka bei Tananarivo, 15 Juni 1880', *J.M. Hildebrandt 3479* (B20 0092940, holo.; BM, K000435443!, P00483475!, P00483476!, P00483477!, iso.).

*P. abrahamii* Hieron. in Botanische Jahrbücher 53: 409, 410 (1915), as '*abrahami*'.
Type: 'Natal: Bei Mapumulo im Gebiet des Umvoti-Flusses', 1867–1869, *S.L. Abraham 27* (B20 0051640!, holo.; BOL, P00477840!, iso.).

*P. stolzii* Hieron. in Botanische Jahrbücher 53: 410–412 (1915).
Type: 'Deutsch-Ostafrika, Nyassaland: Im Waldesschatten in der Kibila-Schlucht bei Kyimbila in 1 000 m ü. M., 17 Okt. 1911', *A. Stolz 937* (B20 0093020!, B20 0093021!, syn.; K, iso.); 'Deutsch-Ostafrika. Langenburg, am Nordende des Nyassa-Sees', *A. Stolz 610* (B20 0051633!, syn.).

Chromosome number: triploid apomict, n = 87, 2n = 78 (Walker 1962: 30).

Distribution: Angola, Cameroon, DRC, Gabon, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Rwanda, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pteris geminata** *Wall. ex J.Agardh*, Recensio specierum generis Pteridis: 31 (Jul.–Oct. 1839).
Type: 'Nepal', *N. Wallich s.n.* (not located).

*P. geminata* Wall., A numerical list of dried specimens: no. 2180 (1830), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Campteria kleiniana* C.Presl, Tentamen pteridographiae: 147, pl. 5, f. 19 (Oct. 1836).

*P. dubia* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 71 (Aug.–Sep. 1879).
Type: "Comoro—Insel Johanna, 500–1 200, Wälder, Jun.–Aug. 1875", *J.M. Hildebrandt 1763* (P00279926!, iso.).

*P. maxima* Baker in Synopsis filicum, edn 2: 480 (Oct. 1874a).
Type: 'Isle of Mayotte', *H. Barkly s.n.* (K?, holo.).
Note: Tardieu-Blot (1958b: 102) noted that the type of *Pteris maxima* is *Humbert 1105*, but Baker only lists a Lady Barkly collection from Mayotte.

Distribution: Comoro Isl. (Mayotte).

**Pteris griseoviridis** *C.Chr.*, Dansk Botanisk Arkiv 7: 131,132, pl. 52, figs 2, 3 (Oct. 1932b).
Type: 'Massif de Beampingaratra (Sud-Est): Col de Vohipaha, forêt sur latérite de gneiss, 1 100–1 400 m. alt., 16 Nov. 1928', *H. Humbert 6644* (BM!, holo.; P00483438!, P00483439!, P00483440!, P00483441!, P0048342!, iso.).

*P. griseoviridis* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 53 (Feb. 1932a), nom. nud. [McNeill et al. (2006) Art. 32.1(d)].

Distribution: Comoro Isl. (Grande Comore), Madagascar.

**Pteris hamulosa** *(H.Christ) H.Christ* in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 30 (1909b).

*P. quadriaurita* Retz. var. *hamulosa* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 1: 4 (1903b).
Type: 'Environs de Kisanu, 1901', *J.B. Gillet s.n.* (BR, holo.).

*P. biaurita* L. var. *africana* Bonap. f. *spinulifera* Bonap. in Notes Ptéridologiques 1: 61 (14 Jul. 1915a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3], non *Pteris spinulifera* Schumach. (1827: 233, 234).
Type: 'Congo français, Benito', *C. Reutlinger s.n.* (P, holo.).

*P. biaurita* L. var. *spinulifera* Bonap. in Notes Ptéridologiques 14: 311 (23 Nov. 1923b), non *Pteris spinulifera* Schumach. (1827: 233, 234).
Type: "Sur *Elaeis* Valleé de Bomokandi, 1913", *De Calonne s.n.* (P00477777!, holo.).

*P. acanthoneura* Alston in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 15, 16, t. 4, 5 (1954).
Type: 'Uganda: Budongo forest, in dense forest', *G. Taylor 3337* (BM!, syn., 2 sheets).

Chromosome number: sexual diploid, 2n = 58 (Walker 1962: 29).

Distribution: Angola, Bioko, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, DRC, Equatorial Guinea, Ghana, Kenya, Mozambique, Nigeria, Pemba, Sudan, Tanzania, Uganda.

**Pteris heteroclita** *Desv.* in Mémoires de la Société Linnéenne de Paris 6,2: 299 (Jul. 1827).
Type: 'Habitat in Madagascaria', *sine coll. s.n.* (P00483447!, holo.).

*P. melleri* Baker in Synopsis filicum 5: 165 (8 Jul. 1867c).
Type: 'Cascades of the Anevoca Valley, Madagascar', *C.J. Meller s.n.* (K?, holo.).

*P. heteroclita* Desv. var. *melleri* (Baker) Bonap. in Notes Ptéridologiques 5: 100 (10 Dec. 1917e).

*P. triplicata* J.Agardh, Recensio specierum generis Pteridis: 29, 30 (Jul.–Oct. 1839).
Type: 'Hab. in insula Madagascar', *J. Goudot s.n.* (Herb. Delessert); 'Hab. in insula Madagascar', *A.C.J. Bernier s.n.* (P, syn.).

Distribution: Madagascar.

**Pteris humbertii** *C.Chr.* in Dansk Botanisk Arkiv 7: 137, 138, pl. 52, figs 5–8 (Oct. 1932b).
Type: Madagascar. 'Bassin de la Manampanihy (Sud-Est): Col de Fitana, dans forêt sur latérite de gneiss, 300–700 m, 15 Oct. 1928', *H. Humbert 6063* (BM?, holo.; P00483448!, P00483449!, iso.).

*P. humbertii* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 53 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

Distribution: Madagascar.

**Pteris incompleta** *Cav.* in Anales de Ciencias Naturales 4: 107 (1802).
Type: based on cultivated material from Tenerrife and Tangier.

Distribution: Morocco.

**Pteris intricata** *C.H.Wright* in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1906: 252 (1906b).
Type: 'Uganda Protectorate. Mawakota, 1 190 m', *E. Brown 158* (K000435422!, K000435423!, K000435424!, K000435425!, holo.; BM, iso.).

*P. adamii* Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 76, t. 12, fig. 1 (1953d).
Type: 'Guinée, massif du Ziama', *Adam 4265* (P, holo.).

Chromosome number: sexual tetraploid, n = 58 (Walker 1962: 30).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Ghana, Guinea, Kenya, Madagascar, Mali, Mozambique, Nigeria, Rwanda, Sierra Leone, Tanzania, Uganda, Zambia.

**Pteris kivuensis** *C.Chr.* in Dansk Botanisk Arkiv 9,3: 71, 72 (1937c).
Type: 'Tropical Africa: Congo Belge. Montagnes à l'ouest du Lac Kivu, in forest, 2 000–2 400 m, février-mars 1929', *H. Humbert 7826* (BM!, holo.; P00483451!, iso.).

Distribution: Burundi, DRC, Rwanda.

**Pteris lanceifolia** *J.Agardh*, Recensio specierum generis Pteridis: 53, 54 (Jul.–Oct. 1839), as '*lanceaefolia*', var. **lanceifolia** [McNeill *et al.* (2006) Art. 60.8].
Type: 'Hab. in insula Madagascar', *sine coll. s.n.* (Hb. Hooker).

*Litobrochia lanceifolia* (J.Agardh) J.Sm., Historia filicum: 291 (Oct.–Dec. 1875), as '*lanceofolia*'.

Distribution: Madagascar, Seychelles.

**Pteris lanceifolia** *J.Agardh* var. **platyodon** *(Baker) C.Chr.* in Catalogue des plantes de Madagascar. Pteridophyta: 53 (Feb. 1932a).

*P. platyodon* Baker in Journal of the Linnean Society, Botany 15: 415 (1876b).
Type: Madagascar, *W. Pool s.n.* (K000435439!, holo.).

Distribution: Madagascar.

**Pteris lastii** *C.Chr.*, Index filicum: 600 (2 Jul. 1906), nom. nov. for *P. acuminata* Baker, non Desv. (1811: 324).

*P. acuminata* Baker in Journal of Botany, British and Foreign 1891: 5, 6 (1891b), non Desv. (1811: 324).
Type: Madagascar, *J.T. Last s.n.* (K000435440!, holo.).

Distribution: Madagascar.

**Pteris laurea** *Desv*. in Mémoires de la Société Linnéenne de Paris 6,2: 299 (Jul. 1827).
Type: 'Habiatat in insula Madagascariae', *sine coll. s.n*. (P00483455!, holo.).

*Campteria laurea* (Desv.) T.Moore, Index filicum 2,19: 220 (1861a).

*P. appendiculata* Baker in Journal of Botany, British and Foreign 19: 366, 367 (1891c), non Kaulf. (1824: 187).
Type: 'Madagascar', *C. Curtis s.n*. (K000435434!, holo.).

*P. curtisii* C.Chr., Index filicum: 596 (2 Jul. 1906), nom. nov. for *P. appendiculata* Baker, non Kaulf. (1824: 187).

Distribution: Madagascar.

**Pteris linearis** *Poir.* in Encyclopedie méthodique, Botanique 5: 723 (9 Jan. 1804).
Type: 'l'île de France', *P. Commerson s.n*. (P-LA, holo.).

*Campteria nemoralis* (Willd.) J.Sm. in Companion to the Botanical Magazine 72: 23 (1846).

*P. biaurita* L. var. *nemoralis* (Bory ex Willd.) A.Chev., Exploration botanique de l'Afrique occidentale française 1: 770 (1920).

*P. nemoralis* Bory ex Willd., Enumeratio plantarum horti regii botanici berolensis 2: 1073, 1074 (Jun. 1809b).
Type: 'Habitat in insula mauritii et Borboniae ad nemorum margines', *sine coll. s.n*. (not located).
Note: several specimens of this species are present in the Willdenow Herbarium, but none appear to be authentic.

*P. normalis* D.Don, Prodromus florae nepalensis: 15 (26 Jan.–1 Feb. 1825).
Type: 'Hab. in Nepaliâ', *N. Wallich s.n*. (BM?, K?, iso.).

*P. hildebrandtii* sensu Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 74, fig. 12, t. 2 (1953d), pro syn., non Hieron. (1915: 407).

Distribution: Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan, Mayotte), Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Mali, Mauritius, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Pteris macrodon** *Baker* in Journal of the Linnean Society, Botany 15: 414, 415 (1876b).
Type: Madagascar, *W. Pool s.n*. (K000435437!, K000435438!, holo.).

Distribution: Madagascar.

**Pteris madagascarica** *J.Agardh*, Recensio specierum generis Pteridis: 17 (Jul.–Oct. 1839), var. **madagascarica**.
Type: 'Hab. in Insula Madagascar', *W. Bojer s.n*. (K000435435!, K000435436!, holo.).

Distribution: Madagascar.

**Pteris madagascarica** *J.Agardh* var. **lathyropteris** *(H.Christ) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 107 (May 1958b).

*Lathyropteris madagascariensis* H.Christ in Bulletin de l'Herbier Boissier, sér. 2, 7,4: 275, 276, figs 1–3 (1907a).
Type: 'Madagascar. Mandraka-forêts. 15 Auh. 1906', *C.D. Alleizette 89* (88 in err.) (BM!, holo.; K, P00483456!, P00483457!, iso.).

*P. lathyropteris* (H.Christ) C.Chr. in Dansk Botanisk Arkiv 7: 137, pl. 53, figs 6, 7 (Oct. 1932b).

Distribution: Madagascar.

**Pteris mettenii** *Kuhn*, Filices africanae: 85 (Oct. 1868).
Type: 'Ins. Nossi-beh', *L.H. Boivin s.n*. (B20 092971!, B20 0092972!, holo.; P00150177, P00150179!, iso.); 'Ins. Comorae; ins Mayotte', *L.H. Boivin 2862* (B20 0092966!, B20 0092967!, P00150178!, P00477841!, isosyn.).

Distribution: Comoro Isl., Madagascar, Réunion.

**Pteris microlepis** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 227, 228, 230, fig. 7 (1983a).
Type: 'Rwanda, Préf. Ruhengeri, Parc National des Volcans, selle Ngahinga-Muhavura, 2 900 m, forêt de bambous à *Pilea*, *Impatiens*, fougère répandue peu fertile, 2.VIII.1974, *P.A.J.B. van der Veken 10600* (GENT, holo.; BR, FI-PS, LG, NAM, iso.).

Distribution: Kenya, Rwanda, Uganda.

**Pteris mildbraedii** *Hieron*. in Botanische Jahrbücher 53: 415–417 (1915).
Type: 'Südkameruner Waldgebiet: Bezirk Kribi, an der westlichen Addachung des Randgebirges im Hügellande, 200 m ü. M. bei Fenda, 58 km östlich von Kribi, Mitte Juli 1911', *G.W.J. Mildbraed 5986* (B!, 2 sheets, holo.; P00483459!, iso.).

*P. quadriaurita* Retz. var. *africana* Bonap. in Notes Ptéridologiques 5: 71, 72 (10 Dec. 1917d).
Type: Madagascar. 'Règions floristiques de l'Est et du Centre. Forêt d'Analamazoatra. 800 mètres d'altitude, Dècembre 6102', *H. Perrier de la Bâthie 6102* (P00483446!, holo.; P00483445!, iso.).

Distribution: Benin, Bioko, Cameroon, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Nigeria, Sudan, Tanzania, Zimbabwe.

**Pteris mkomaziensis** *Verdc*. in Flora of tropical East Africa, Pteridaceae: 18 (2002b).
Type: 'Tanzania, Pare District, Mkomazi Game Reserve, Maji Kununua ridge', *R. Abdallah, Mboya & Vollesen 96/91* (K000435429!, holo.).

Distribution: Tanzania.

**Pteris multifida** *Poir.* in Encyclopedie méthodique, Botanique 5: 714 (9 Jan. 1804).
Type: a plant of unknown origin cultivated at the Jardin des Plantes, Paris. *sine coll. s.n*. (P, syn.).

Distribution: Uganda (naturalised?).

**Pteris muricella** *Fée* in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 73 (1857b).
Type: 'Mexique, près de Cordoba et de Huatusco, 1854', *W. Schaffner 143* (P?, holo.).

*Hypolepis pteridioides* Hook., A second century of ferns: pl. 59 [1860] (1861).
Type: 'Peak of Fernando Po, at 7000 feet elevation', *G. Mann 348* (K000435412!, holo.).

*P. brevisora* Baker in Synopsis filicum 5: 162 (8 Jul. 1867c).
Type: As for *P. pteridioides* Hook.

*H. pteridioides* Hook., A second century of ferns: pl. 59 [1860] (1861).

*P. pteridioides* (Hook.) F.Ballard in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1937,6: 348 (1937).

Distribution: Bioko, Burundi, Cameroon, Coté d'Ivoire, DRC, Ethiopia, Kenya, Liberia, Madagascar, Malawi, Mozambique, Rwanda, São Tomé, Sudan, Tanzania, Uganda, Zimbabwe.

**Pteris nevillei** *Baker* in Annals of Botany (C. König, J. Sims, eds) 5: 219 (1891a).
Type: 'Bourbon', *G. Neville s.n*. (K000435441!, holo.).

Distribution: Réunion.

**Pteris paleacea** *Roxb*. in Tracts relative to the island of St Helena: 319, 320 (Jan. 1816).
Type: St Helena. 'Harding's Spring', 4/02/1810, *J. Roxburgh s.n*. (BM, holo.).

Distribution: St Helena.

**Pteris perrieriana** *C.Chr*. in Dansk Botanisk Arkiv 7: 132, 133, pl. 51, fig. 1 (Oct. 1932b).
Type: Madagascar. 'Massif de Manongarivo, 1 600 m. alt., June 1909', *H. Perrier de la Bâthie 7851* (P00483469, P00483470, P00483471, lecto.; P00483472, isolecto.).

Distribution: Madagascar.

**Pteris preussii** *Hieron*. in Botanische Jahrbücher 53: 399, 400 (1915).
Type: 'Kamerun: Urwald westlich von Buea in 900 m ü. M, 17 Jan. 1891', *P.R. Preuss 585* (B20 0092979!, holo.; BM, P, iso.).

*P. deistelii* Hieron. in Botanische Jahrbücher 53: 400–402 (1915).
Type: 'Kamerun: Am Boden im lichten Wald des Kamerungebirges bei Buea, Februar 1900', *H. Deistel 476*, '456', in err. (B20 0092938!, B20 0092939!, syn., P, iso.).

*P. prolifera* Hieron. in Botanische Jahrbücher 53: 397–398 (1915).
Type: 'Bei Lolodorf, 31 März 1895', *A. Staudt 197* (B20 0092987!, holo.; P00483464!, P00483465!, P00483466!, P00483467!, iso.); 'Kamerun: Bei der Station Jaunde, 1890/1892', *G.A. Zenker 113* (B20 0092986, syn.); 'Am halbschattigen bachufer am Wege ach Lolo bei Bipindi, 16 Juni 1898', *G.A. Zenker 1835* (B20 0092984, B20 0092985, P00483468!, syn.); 'Kongogebiet: in einem Gebüsch an einem Bach im Gebiet des Quango-(Kuango-) bei der Residenz des Muëne Putu Kasongo, 12 Aug. 1885', *R. Büttner 512* (B20 0092990, B20 0092993, B20 0092994, syn.).

Distribution: ?Angola, Bioko, Burundi, Cameroon, Congo, DRC, Equatorial Guinea, Kenya, Liberia, Rwanda, Sudan, Tanzania, Uganda.

**Pteris pseudolonchitis** *Bory ex Willd*., Species plantarum, edn 4, 5, 1: 389 (25–27 Jun. 1810), as *'pseudo-lonchitis*'.
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 20000-01 0, holo.).

Distribution: Comoro Isl. (Grande Comore), Madagascar, Réunion, Seychelles.

**Pteris quadriaurita** *Retz*., Observationes botanicae 6: 38 (1791).
Type: Ceylon, *J.G. König s.n*. (not located).

*P. quadriaurita* Retz. var. *setigera* (Hook.) Bonap. in Notes Ptéridologiques 16: 101 (14 Apr. 1925a).

Distribution: Socotra, Sudan.

**Pteris remotifolia** *Baker* in Journal of the Linnean Society, Botany 16: 199 (1877a).
Type: Madagascar, *H. Gilpin s.n*. (K?, holo.).

*P. remotifolia* Baker var. *scabra* Bonap. in Notes Ptéridologiques 5: 102 (10 Dec. 1917e).

*P. remotipinna* Bonap. in Notes Ptéridologiques 5: 72, 73 (10 Dec. 1917d).
Type: Madagascar. 'Règion floristique du Centre. Massif de Manongarivo, Vers 1 700 mètres d'altitude. Bois humide. Mai 1909', *H. Perrier de la Bâthie 7841* (P00483498!, P00483499!, holo.).

Distribution: Madagascar, Réunion.

**Pteris repens** *C.Chr.*, Index filicum: 606 (2 Jul. 1906), nom. nov. for *Pteris nitida* Mett. ex Kuhn (1868: 86), non R.Br. (1810: 155).
Type: As for *Pteris nitida* Mett. ex Kuhn (1868: 86).

*Afropteris repens* (C.Chr.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 5 (1956a).

*P. nitida* Mett. ex Kuhn, Filices africanae: 86 (Oct. 1868), non R.Br. (1810: 155).
Type: 'Africa occidentalis. Ad flumen Gaboon', *G. Mann 1047* (BM, holo.; K000435409!, iso.).

Distribution: Angola, Cameroon, Equatorial Guinea, Gabon, Nigeria, Sudan.

**Pteris scabra** *Bory ex Willd*., Species plantarum, edn 4, 5,1: 386, 387 (25–27 Jun. 1810).
Type: 'Habitat in insulae Mauritii et Borboniae nemoribus', *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19998-01 0, holo.).

*P. sexalata* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 298 (Jul. 1827).
Type: "Habitat in insulae Borboniae", *sine coll. s.n*. (P00483478!, holo.).

Distribution: Mauritius, Réunion.

**Pteris similis** *Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 21 (Aug.–Sep. 1879).
Type: "An Assika, 7. III. 1870 in Lande der Niamniam", *G.A. Schweinfurth 3311* (B20 0093015!, B20 0093016!, syn.; BM, K000435419!, K000435420!, isosyn.); "Am flusse Mruole, Mando's Gebidt, 1 März 1870", *G.A. Schweinfurth 3087* (B20 0093019!, syn.).

*P. congoensis* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 29 (1909b), as '*congensis*'.
Type: 'Route de Buta à Bima, 15 octobre 1905', *F. Seret 92* (BM, holo.).

*P. molunduensis* Hieron. in Botanische Jahrbücher 53: 417–419 (1915).
Type: 'Sudkameruner Waldgebiet: An einem Wasserlauf in *Raphia*-Stumpf im Bezirk und bei der Station Molundu am Dsch Ngoko, 15°12' ö. L. 2° n. Br. bei Nginda, 21 km nördlich Molundu, 4 Jan. 911', *G.W.J. Mildbraed 4164* (B20 0092977, B20 0092978, holo.; P00483461!, iso.).

Chromosome number: possibly apogamous, 2n = 58 (Walker 1962: 32).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Côte d'Ivoire, DRC, Equatorial Guinea, Ghana, Guinea, Liberia, Nigeria, Sierra Leone, Sudan, Togo.

**Pteris togoensis** *Hieron*. in Botanische Jahrbücher 53: 402–404 (1915).
Type: 'Togo: In einer Bergschlucht des Ruë-Gebirges in 500 m. ü. M., August 1908', *O. Kersting 653* (B20 0093025!, lecto.), desigated by Tardieu-Blot (1964a: 162); (B20 0093026!, BM, P00483481!, isolecto.); 'am Adadia bei Bismarckburg, 13 Sept. 1889', *E. Kling 250* (B20 0093023!, B20 0093024!, syn.); 'im Walde bei Sodó, 27 Dez. 1904', *W. Busse 3535* (B20 0093027!, B20 0093028!, B20 0093029!, syn.); 'im Galeriewald am Takpla bei Ho in 250 m ü. M., 20 Febr. 1904', *Schröder 186* (B20 0093030!, B20 0093031!, syn.).

*P. quadriaurita* Retz. subsp. *togoensis* (Hieron.) Schelpe in Contributions from the Bolus Herbarium 1: 66 (17 Dec. 1969b).

*P. paucipinnata* Alston in Bulletin de l'Institut Française d'Afrique Noire 21: 443 (1959a).
Type: 'Sao Tomé, above Monte Café, 1 010 m', *T. Monod 11690* (BM!, holo.).

Chromosome number: sexual diploid, n = 29 (Manton 1959: 79; Walker 1962: 32).

Distribution: Angola, Annobon, Benin, Bioko, Cameroon, Central African Republic, Congo, Coté d'Ivoire, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Pteris trachyrachis** *(Bonap.) C.Chr*. in Catalogue des plantes de Madagascar. Pteridophyta: 54 (Feb. 1932a).

*P. biaurita* L. var. *africana* Bonap. f. *trachyrachis* Bonap. in Notes Ptéridologiques 5: 68 (10 Dec. 1917d).
Type: Madagascar. 'Monts entre le Sambirano et le Mohivarano, vers 1 800 m. d'alt., Octobre 1908', *H. Perrier de la Bâthie 7831* (P00483483; P00483484; P00483485; holo.).

*P. quadriaurita* Retz. var. *africana* Bonap. f. *trachyrachis* Bonap. in Notes Ptéridologiques 5: 68, 69 (10 Dec. 1917d).
Type: 'Règion floristique de Centre. Monts entre le Sambirano et le Mohivarano. Vers 1 800 mètres d'altitude. Ravins. basalte. Octobre 1908', *H. Perrier de la Bâthie 7831* (P00483483!, P00483484!, P00483485!, holo.).

Distribution: Madagascar.

**Pteris tremula** *R.Br*., Prodromus florae Novae Hollandiae: 154 (1–7 Apr. 1810).
Type: SE Australia, NS Wales, Port Jackson 1802–1805, *R. Brown s.n*. (LD, syn.).

Chromosome number: possibly an octoploid, (Brownlie 1957: 208; Walker 1962: 32; Queirós & Ormonde 1987: 258).

Distribution: South Africa (naturalised).

**Pteris tripartita** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 67 (1801).
Type: Java, *C.P. Thunberg s.n*. (UPS-Thunb 24968, UPS-Thunb 24969, syn.).

*Litobrochia tripartita* (Sw.) C.Presl, Tentamen pteridographiae: 150 (Oct. 1836).

*P. marginata* Bory, Voyage dans les quatre principales îles des mers d'Afrique 2: 192 (Sep. 1804b).
Type: Réunion. "N. Dans les grands bois vers le trou Caron, dans l'enclos du volcan de l'isle de Mascareigne", *J.B.G.M. Bory de St.-Vincent s.n*. (P00483547, holo.).

*L. marginata* (Bory) C.Presl, Tentamen pteridographiae: 149 (Oct. 1836).

*P. pellucens* sensu Kuhn, Filices africanae: 87 (Oct. 1868), non J.Agardh (1839: 43).

Chromosome number: sexual diploid, n = 29, 2n = 58 (Walker 1962: 31).

Distribution: Bioko, Cameroon, Comoro Isl. (Mayotte), Coté d'Ivoire, Diego Garcia, DRC, Equatorial Guinea, Gabon, Ghana, Kenya, Liberia, Madagascar, Mauritius, Nigeria, Príncipe, Réunion, São Tomé, Seychelles, Tanzania, Uganda, Zanzibar.

**Pteris usambarensis** *Hieron*. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 80 (Jun. 1895).
Type: 'Usb., Mbaramu bei Shagaiu, Hochwald', *C.H.E.W. Holst 2499* (B20 0051634!, holo.; K000435430!, P00483486!, iso.).

Distribution: Kenya, Tanzania.

**Pteris vittata** *L.*, Species plantarum 2: 1074 (1 May 1753).
Provenance: 'Habitat in China. *Osbeck*.' Lectotype: Herb. Linn. No. 1246.3 (LINN), designated by R.M. Tryon (1964: 191).

*Pycnodoria vittata* (L.) Small, Ferns of the southeastern States: 120, 468 (4 Oct. 1938).

*Pteris lanceolata* Desf., Flora atlantica 2,9: 401 (Jul. 1799).
Type: 'Habitat ad rivulos Algeriae', *sine coll. s.n*. (?P, holo.).

*Pteris ensifolia* Poir. in Encyclopedie méthodique, Botanique 5: 711, 712 (9 Jan. 1804), nom. nov., based on *P. lanceolata* Desf., non L. (1753: 1073).
Type: 'Cette plante croît en Espagne & dans les environs d'Alger, fur le bord des ruisseaux', *R. Desfontaines s.n*. (P, holo.).

*Pteris diversifolia* Sw., Synopsis filicum: 96 (Mar.–Apr. 1806b).
Type: 'Java', *sine coll. s.n.* (not located).

*Pteris costata* Bory ex Willd., Species plantarum, edn 4, 5,1: 367 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19970!, holo.; P00483487!, iso.).

*Pteris inaequilateralis* Poir. in Encyclopédie méthodique, Botanique. Supplementum 4,2: 601, 602 (14 Dec. 1816b).
Type: 'Cette plante a été recuillie à l'île de Bourbon', *J.B.G.M. Bory de St.-Vincent s.n*. (P?, holo.).

*Pteris longifolia* Wall., A numerical list of dried specimens: no. 111 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3], non L. (1753: 1074).

*Pteris microdonta* Gaudich., Voyage autour du monde, entre pris par ordre du roi, .... exécuté sur les corvettes de S.M. l'Uranie et la Physicienne 9: 387 (18 Jul. 1829).
Type: 'In insulis Moluccis (Timor)', *sine coll. s.n.* (not located).

*Pteris longifolia* sensu Sim, The ferns of South Africa: 106, 107, pl. 42 (1892).

Chromosome number: sexual tetraploid, n = 58 (Manton 1959: 79; Walker 1962: 32).

Distribution: Algeria, Angola, Botswana, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo, Bravo), Comoro Isl. (Anjouan, Grande Comore, Mayotte), Djibouti, DRC, Ethiopia, Ghana, Kenya, La Réunion, Lesotho, Libya, Madagascar, Mauritius, Malawi, Morocco, Mozam-

bique, Namibia, Rwanda, São Tomé, Socotra, Somalia, South Africa, Sudan, Swaziland, Tanzania, Tunisia, Uganda, Zanzibar, Zambia, Zimbabwe.

**Pteris woodwardioides** *Bory ex Willd*., Species plantarum, edn 4, 5,1: 360 (25–27 Jun. 1810). Type: 'Habitat in insula Borboniae', *J.B.G.M. Bory de St.-Vicent s.n*. (B-W 19962-01 0, holo.).

*Litobrochia montbrisonis* Fée, Cinquième mémoires sur la famille des fougères: 137 (1852). Type: 'Habitat in insulâ Bourboniâ', *Montbrison s.n.* (?P, holo.).

*P. borbonica* (Fée) Hook., Species filicum 2,7/8: 228 (Jan.–Sep. 1858).

*P. montbrisonis* (Fée) Hook., Species filicum 2,7/8: 228, 229 (Jan.–Sep. 1858).

*P. pellucida* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 73 (Jan. 1827). Type: 'Ins. Mascaren.', *sine coll. s.n*. (not located).

Distribution: Madagascar, Mauritius, Réunion.

## PITYROGRAMMA

**Pityrogramma** *Link*, Handbuch zur Erkennung der nutzbarsten und am häufigsten vorkommen den Gewächse 3: 19 (1833a). Lectotype: *Pityrogramma chrysophylla* (Sw.) Link; *Acrostichum chrysophyllum* Sw., designated by Maxon (1913b: 173).

*Ceropteris* Link, Filicum species: 141 (Oct. 1841), nom. superfl. Type: *Pityrogramma chrysophylla* (Sw.) Link; *Acrostichum chrysophyllum* Sw.

**Pityrogramma argentea** *(Willd.) Domin* in Spisy vydávané Prirodovedeckou Fakultou Karlovy University 88: 6 (1928).

*Hemionitis argentea* Willd., Species plantarum, edn 4, 5,1: 132 (25–27 Jun. 1810). Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19569!, holo.; P00466449!, iso.).

*Gymnogramma argentea* (Willd.) Mett. ex Kuhn, Filices africanae: 59 (Oct. 1868).

*Ceropteris argentea* (Willd.) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 18 (Aug.–Sep. 1879).

*H. aurea* Willd., Species plantarum, edn 4, 5,1: 131, 132 (25–27 Jun. 1810). Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19570!, holo.; P00466445!, iso.).

*G. aurea* (Willd.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 305, 306 (1811).

*G. argentea* (Willd.) Mett. ex Kuhn var. *aurea* (Willd.) Mett. ex Kuhn, Filices africanae: 59 (Oct. 1868).

*C. argentea* (Willd.) Kuhn var. *aurea* (Willd.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 18 (Aug.–Sep. 1879).

*P. aurea* (Bory ex Willd.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 46 (Feb. 1932a).

*G. conspersa* Kunze in Linnaea 18: 116 (1844b). Type: 'Raro locis humidis umbrosis ad coronas rupium prope catarractam inter Omfondi et Tagela, Febr.–Apr. 1842', *W. Gueinzius s.n.* (LZ†, holo.; K000435455!, iso.).

*Anogramma conspersa* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 184 (1852).

*G. rosea* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 306 (1811). Type: 'Habitat in insula Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (P00466450!, holo.).

*G. thiebautii* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 215 (Jul. 1827), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].

*G. argentea* (Willd.) Domin var. *madagascarica* Bonap. in Notes Ptéridologiques 16: 78 (14 Apr. 1925a). Type: Madagascar. 'Région floristique du Centre. Massif d'Andringitra. 2 500 mètres d'altitude Rocailles. Février 1922', *H. Perrier de la Bâthie 14499* (P00466446!, P00466447!, syn.); Madagascar. 'Massif d'Andringitra', *H. Perrier de la Bâthie 13628* (P00466448, syn.).

Distribution: Angola, Madagascar, Malawi, Mauritius, Mozambique, Réunion, South Africa, Zambia, Zimbabwe.

**Pityrogramma aurantiaca** *(Hieron.) C.Chr*., Index filicum. Supplementum tertium pro annis 1917–1933: 138 (Oct. 1934).

*Gymnogramma aurantiaca* Hieron. in Botanische Jahrbücher 46,3: 383, 384 (1911). Type: 'Deutsch-Ostafrika: oberhalb Kibosho am Kilimandscharo in 2 900 m ü. M., 24 Oktober 1901', *C. Uhlig 183* (B20 0072627!, K000435454!, isosyn.); "Ruwenzori-West: Butagu-Thal. 3 000–3 300 m. Mitte Febr. 1908", *G.W.J. Mildbraed 2560* (B20 0072625!, lecto.), designated by Pichi Sermolli (1973a: 429); (B20 0072626!, isolecto.).

*G. aurantiaca* Hieron. f. *decolorata* Bonap. in Notes Ptéridologiques 14: 297 (23 Nov. 1923b). Type: 'Congo belge. Ruwenzori. Butagu. Sur un rocher. Environ 2 500 mètres d'altitude. 14 avril 1914', *J.C.C. Bequaert 3710* (P00466444, holo.).

Distribution: Burundi, DRC, Kenya, Malawi, Rwanda, Tanzania, Uganda.

**Pityrogramma calomelanos** *(L.) Link*, Handbuch zur Erkennung der nutzbarsten und am häufigsten vorkommen den Gewächse 3: 20 (1833a), var. **calomelanos**.

*Acrostichum calomelanos* L., Species plantarum 2: 1072 (1 May 1753). Provenance: 'Habitat in America meridionali'. Lectotype: Herb. Linn. No. 1245.19 (LINN), designated by Schelpe (1969b: 50).

*Gymnogramma calomelanos* (L.) Kaulf., Enumeratio filicum: 76 (Oct. 1824).

*P. insularis* Domin in Spisy vydávané Prirodovedeckou Fakultou Karlovy University 88: 6, 7 (1928). Type: 'Princes Island', *C. Barter 1912* (K000435452!, syn.); 'Fernando Po', *G. Mann 137* (K000435451!, syn.).

*G. ochracea* sensu Sim, The ferns of South Africa: 213, pl. 76 (1892).

Distribution: Angola, Annobon, Bioko, Burkina Faso, Burundi, Cameroon, Comoro Isl. (Anjouan, Mayotte), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Mauritius, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Senegal, Seychelles, Sierra Leone, Somalia, Tanzania, Uganda. Introduced from tropical America.

**Pityrogramma calomelanos** *(L.) Link* var. **aureoflava** *(Hook.) Weath. ex L.H.Bailey*, Manual of cultivated plants: 64 (1924).

*Gymnogramma calomelanos* (L.) Kaulf. var. *aureoflava* Hook., Garden ferns: pl. 50 (1862a), as *'aureo-flava'*. Type: 'Hot valleys of Ecuador', *B.C. Seeman 948* (K, lecto.), tentatively selected by R.M. Tryon (1962a: 69).

*Ceropteris calomelanos* sensu Sim, The ferns of South Africa, edn 2: 196, pl. 88 (1915).

Distribution: DRC, South Africa, Swaziland, Zambia (naturalised). Introduced from South America.

**Pityrogramma humbertii** *C.Chr*. in Dansk Botanisk Arkiv 7: 111, 112, pl. 43, figs 1, 2 (Oct. 1932b), var. **humbertii**.
Type: Madagascar. 'Sommet de Vavara, rocailles gneissiques, 1 650–1 885 m. d'alt. 10 Novembre 1928', *H. Humbert 6568* (BM, holo.; P00466441!, P00466442!, P00466443!, iso.).

Distribution: Madagascar.

**Pityrogramma humbertii** *C.Chr*. var. **elongata** *C.Chr*. in Dansk Botanisk Arkiv 7: 112 (Oct. 1932b).
Type: 'Congo Belge: Massif du Kahuzi, ouest du Lac. Kivu, vers 2 800 m. Mars 1929', *H. Humbert 7695* (BM, holo.; BR, P00466437!, P00466438!, P00466439!, P00466440!, iso.).

*P. elongata* (C.Chr.) Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 237 (1983a).

Distribution: DRC, Rwanda, Uganda.

**Pityrogramma rupicola** *Pic.Serm*. in Webbia 27,2: 425, 426, fig. 12, t. A–C, fig. 13 [1972] (28 Feb. 1973a).
Type: 'Congo: Dorsale ad ovest del lago Kivu. Montagne di Shamulamba: sulle roccie del versante sud-orientale della cima a nord del rifugio del Groupe de Montagne du Kivu. 2 600 m circa. 24.X.1953.' *R.E.G. Pichi Sermolli 4453* (FI-PS 19678, holo.; K000435453!, P00466477!, iso.).

Distribution: Burundi, DRC, Rwanda.

### ONYCHIUM

**Onychium** *Kaulf*. in Berlinisches Jahrbuch für die Pharmacie und für die damit verbundunen Wissenschaften 21: 45 (1820). Type: *Onychium capense* Kaulf.; = *Onychium japonicum* (Thunb.) Kunze; *Trichomanes japonicum* Thunb.

*Onychium* Kaulf. sect. *Cryptogrammoides* Kümmerle in American Fern Journal 20,4: 133 (26 Dec. 1930). Type: none indicated.

**Onychium divaricatum** *(Poir.) Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 21 (1956a).

*Trichomanes divaricatum* Poir. in Encyclopedie méthodique, Botanique 8: 78 (22 Aug. 1808).
Type: 'Perse', *A. Michaux s.n*. (G-DC, holo.).

*Allosorus melanolepis* Decne. in Archives du Muséum d'Histoire Naturelle 2: 189 (1841).
Type: 'Yemen; Mons Saber', *P.E. Botta s.n*. (P, holo.; K!, iso.).

*O. melanolepis* (Decne.) Kunze, Die Farrnkräuter 2,11: 9, pl. 104, fig. 2 (23–26 Aug. 1848a).

*Pteris melanolepis* (Decne.) Ettingsh., Die Farnkräuter der Jetzwelt: 88, pl. 35, 39 (Nov.–Dec. 1864).

*Cryptogramma melanolepis* (Decne.) Prantl in Botanische Jahrbücher 3: 413 (1882).

*A. cuspidatus* Hochst. ex Jaub., Illustrationes plantarum orientalium 3: 3, pl. 201 (1847–1850).
Type: 'Crescit in Persia australi, ad rupes motis Pirezend, inter urbes Chiraz et Kazeroun, januario 1838', *P.M.R. Aucher-Éloy 5488* (not located); 'In speluncis insulae Karek sinûs persici, 30 decembris 1841', *K. Kotschy s.n*. (not located); 'rupestribus umbrosis prope Dalechi, 1845', *Hohenacker 198* (not located).

Distribution: Djibouti, Egypt, Eritrea, Ethiopia, Socotra, Somalia, Sudan.

### OCHROPTERIS

**Ochropteris** *J.Sm. ex Hook.* in Journal of Botany (W.J. Hooker, ed.) 4: 158 (1841). Type: *Ochropteris pallens* (Sw.) J.Sm.; *Adiantum pallens* Sw.

**Ochropteris bosseri** *Tardieu* in Bulletin du Muséum d'Histoire Naturelle, Paris. sér. 4, 6,2: 193, pl. 1, figs 1–3 (1984).
Type: 'La Réunion, Route de Takamaka', *Bosser 12062* (P00466520!, holo.; K, P00466521!, iso.).

Distribution: Réunion.

**Ochropteris pallens** *(Sw.) J.Sm*. in Journal of Botany (W.J. Hooker, ed.) 4: 158 (1842a).

*Adiantum pallens* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 84 (1801).
Type: based on Plukenet, Almagestum botanicum: 91, t. 403, fig. 2 (1705).

*Pteris pallens* (Sw.) Mett., Filices horti botanici lipsiensis: 54, t. 15, figs 7–10 (May–Jun. 1856a).

*O. peltigera* Fée, Cinquième mémoires sur la famille des fougères: 121, pl. 29, fig. 4 (1852).
Type: 'Habitat in insulâ Borboniâ', *sine coll. s.n*. (?P, holo.).

Distribution: Madagascar, Mauritius, Réunion.

## SACCOLOMATACEAE

**Saccolomataceae** *Doweld*, New syllabus of plant families: 354 (May 2006). Type: *Saccoloma* Kaulf.

### SACCOLOMA

**Saccoloma** *Kaulf*. in Berlinisches Jahrbuch der Pharmacie 21: 51 (1820). Type: *Saccoloma elegans* Kaulf.

*Orthiopteris* Copel. in Bulletin of the Bernice P. Bishop Museum 59: 14 (1929a). Type: *Orthiopteris ferulacea* (T.Moore) Copel.; *Davallia ferulacea* T.Moore.

**Saccoloma henriettae** *(Baker) C.Chr*. in Dansk Botanisk Arkiv 7: 75, pl. 25, figs 12, 13 (Oct. 1932b).

*Dicksonia henriettae* Baker in Synopsis filicum, edn 2: 462 (Oct. 1874a).
Type: 'Antanarivo, Madagascar', *H. Baker s.n*. (K000351013!, holo.).

*Microlepia henriettae* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 62 (Aug.–Sep. 1879).

*Dennstaedtia henriettae* Diels in Die natürlichen Pflanzenfamilien 1,4: 218 (Oct. 1899b).

*Ornithopteris henriettae* (Baker) Copel., Genera filicum: 50 (1947).

Distribution: Madagascar.

## SINOPTERIDACEAE

**Sinopteridaceae** *Koidz*. in Acta Phytotaxonomica et Geobotanica 3,1: 50 (30 May–20 Jul. 1934). Type: *Sinopteris* C.Chr. & Ching.

*Negripteridaceae* Pic.Serm. in Nuovo Giornale Botanica Italiano, sér. 2, 53,1/2: 160 (25 Nov. 1946b). Type: *Negripteris* Pic.Serm.
Note: a preprint of this paper, without any changes to the pagination, was issued on 25 Nov. 1946, whereas Volume 53,1/2 of the periodical including the paper was published on 24 May 1947 (Pichi Sermolli 1993: 137).

*Cheilanthaceae* B.K.Nayar in Taxon 19,2: 233 (29 Apr. 1970). Type: *Cheilanthes* Sw.

*Adiantaceae* Newman subfam. *Gymnopteridoideae* W.C.Shieh in Journal of Science and Engineering, National Chung-Hsing University 10: 224 (1973). Type: *Gymnopteris* Bernh.

## ALEURITOPTERIS

**Aleuritopteris** *Fée*, Cinquième mémoires sur la famille des fougères: 153 (1852). Type: *Aleuritopteris farinosa* (Forssk.) Fée; *Pteris farinosa* Forssk.

*Allosorus* Bernh. sect. *Aleuritopteris* (Fée) Farw. in The American Midland Naturalist 12,8: 286 (Mar. 1931).

*Cheilanthes* Sw. subgen. *Aleuritopteris* (Fée) Fraser-Jenk. in Botanica Helvetica 102: 144, 145 (1972).

**Aleuritopteris farinosa** *(Forssk.) Fée*, Cinquième mémoires sur la famille des fougères: 154, t. 12b, fig. 1 (1852).

*Pteris farinosa* Forssk., Flora aegyptico-arabica: CXXIV, 187 (1 Oct. 1775).
Type: Yemen, montium Hadiensium media inhabitant, *P. Forsskål s.n*. (C, missing; LD, iso.).

*Cheilanthes farinosa* (Forssk.) Kaulf., Enumeratio filicum: 212 (Oct. 1824).

*Allosorus farinosus* (Forssk.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Cassebeera farinosa* (Forssk.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 159 (1842a).

*Cheilanthes farinosa* (Forssk.) Kaulf. var. *rigidula* Wall., A numerical list of dried specimens: no. 2175 (1830), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Cheilanthes farinosa* (Forssk.) Fée var. *deltoidea* Bonap. in Notes Ptéridologiques 4: 77 (19 May 1917b).
Type: Madagascar. 'Haut Bemarivo. Forêt d'Analamaitso. Bois 800 mètres d'altitude, Août 1907', *H. Perrier de la Bâthie 7845* (P00466516!, P00466517!, holo.; P00466515!, iso.).

*Aleuritopteris afra* Pic.Serm. in Webbia 27,2: 415, fig. 8, t. A–G [1972] (28 Feb. 1973a).
Type: 'Tanzania: Kilimanjaro, presso la Bismark's Hut. m 2 750 c., sulle roccie madide di acqua e ricoperte di muschi e Hymenophyllaceae, nella foresta umida montana a *Podocarpus milanjanus*, *Hagenia abyssinica* ed *Ilex mitis*. 8.VII.1956.', *R.E.G. Pichi Sermolli 5164* (FI-PS 20647, holo.; FI-PS 26285, K000435466!, KYO, P00466501!, iso.).

*Aleuritopteris vandervekenii* Pic.Serm. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 210, 212, fig. 4 (30 Jun. 1983a).
Type: 'Zaire, Parc Nat. des Virunga, massif du Karisimbi, petit vallon descendant du plateau de Rukumi, 3 km au SW du gîte, ± 3 330 m, ravin de 30 m, paroi humide et moussue à exposition W, 23.I.1972', *P.A.J.B. van der Veken 9139* (GENT, holo.; FI-PS, LG, iso.).

*Aleuritopteris aethiopica* Saiki in Journal of Phytogeography and Taxonomy 32,2: 81 (1984).
Type: 'Ethiopia, Shoa, 1 km N of main road bridge, 17 km S of Addis Ababa, Nov. 1961', *F.G. Meyer 7462*, sphalm. 7642 (BOL128019, holo.; BOL128020, K000435461, iso.).

*Aleuritopteris centrafricana* Saiki in Journal of Phytogeography and Taxonomy 32,2: 82, 85, fig. 12 (1984).
Type: 'Uganda, Kigezi (sphalm. Kigri) District, Virunga (sphalm. Kringi) Mts, W Muhavura, ± 3 350 m, Nov. 1954', *H.U. Stauffer 864* (Z, holo.; K000435464!, iso.).

*Aleuritopteris decursiva* (Forssk.) Saiki in Journal of Phytogeography and Taxonomy 32,2: 85, fig. 4 (Dec. 1984).
Type: Yemen, Al Hadiya, *P. Forsskål s.n*. (C†, holo.).

*Aleuritopteris flava* Saiki in Journal of Phytogeography and Taxonomy 32,2: 86, fig. 7 (1984).
Type: 'Tanzania, Morogoro, Uluguru Mts., 1 250 m, Jan. 1933', *H.J. Schlieben 3223* (Z, holo.).

*Aleuritopteris gigantea* Saiki in Journal of Phytogeography and Taxonomy 32,2: 86, fig. 8 (1984).
Type: Tanzania, Mt Meru, W Engere Narok, 1 760 m, July 1972, *E. Zogg & Gassner 57/2* (Z, holo.).

*Aleuritopteris leptophylla* Saiki in Journal of Phytogeography and Taxonomy 32,2: 88, fig. 13 (1984).
Type: 'Eritrea, Hamasen Dongallo, presso Ghinda, Mar. 1902', *A. Pappi 4172* (Z, holo.; K000435459!, K000435460!, iso.).

*Aleuritopteris longifrons* Saiki in Journal of Phytogeography and Taxonomy 32,2: 88, fig. 10 (1984).
Type: 'Tanzania, Mt Meru, E Arusha Nat. Park, Merekamba, 2 500 m, Oct. 1973', *E. Zogg & H. Gassner 118/7* (Z, holo.).

*Cheilanthes farinosa* (Forssk.) Kaulf. f. *sulphurea* sensu Pic. Serm. (1940b: 623), non (Cav.) T.Moore (1861b: 235).

*Cheilanthes bullosa* sensu Schippers in Fern Gazette 14,5: 180 (1993), non Kunze (1851a: 274).
Note: a species complex consisting of sexual tetraploids based on 2n = 120 and triploid apomicts based on 2n = 90 (Manton *et al.* 1966: 564).

Distribution: Angola, Bioko, Botswana, Burundi, Cameroon, Comoro Isl. (Grande Comoro, Anjouan, Mayotte), Djibouti, DRC, Eritrea, Ethiopia, Guinea, Kenya, Madagascar, Malawi, Mauritius, Nigeria, Réunion, Rwanda, Sierra Leone, Socotra, Somalia, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Aleuritopteris welwitschii** *(Hook. & Baker) Ching* in The Hong Kong Naturalist 10,3/4: 202 (1941c).

*Cheilanthes welwitschii* Hook. ex Baker, Synopsis filicum 4: 142 (22 Jan. 1867b).
Type: 'Angola, Pungo Andongo, 1400–3800 p. alt. In montibus gneisicis, Dec. 1856', *F.M.J. Welwitsch 148* (K000435475!, K000435476!, lecto.), designated by Schelpe (1969b: 69); 'Angola', *F.M.J. Welwitsch 198* (K?, syn.).

*C. mossambicensis* Schelpe in Journal of South African Botany 30,4: 183, 184 (21 Oct. 1964).
Type: 'Moçambique, Moçambique district, Ribauè, $1^1/_2$ mls. S.W. of Poste Agricola; locally abundant in overhung horizontal N.W. aspect crevice on granite hill, 1800 ft. alt. 20.vii.1952', *E.A.C.L.E. Schelpe & L.C. Leach 11421* (BOL128021!, holo.; K000435478!, K000435479!, SRGH!, iso.).

*C. lutea* sensu Kuhn, Filices africanae: 73 (Oct. 1868), non (Cav.) T.Moore (1861c: 246).

Distribution: Angola, Malawi, Mozambique, Tanzania, Zimbabwe.

## CHEILANTHES

**Cheilanthes** *Sw.*, Synopsis filicum: 5, 126 (Mar.–Apr. 1806b), nom. cons. Type: *Cheilanthes micropteris* Sw.

*Allosorus* Bernh. in Neues Journal für die Botanik 1,2: 36 [1805] (1806). Type: *Allosorus pusillus* Bernh. (now *Cheilanthes fragrans* (L.f.) Sw.; *Adiantum fragrans* L.f.).

*Notholaena* R.Br., Prodromus florae Novae-Hollandiae: 145 (1810). Lectotype: *Pteris trichomanoides* L. (now *Notholaena trichomanoides* (L.) R.Br.), sensu Pichi Sermolli (1983b: 112–117) and (1989: 301–310). Lectotype designated by Smith (1875: 278) and discussed by Yatskievych & Smith (1998: 331–336).

*Negripteris* Pic.Serm. in Nuovo giornale botanica Italiano, ser. 2, 53,1/2: 130, 131, t. XIV–XVI (1946b). Type: *Negripteris scioana* (Chiov.) Pic.Serm.; *Mohria scioana* Chiov.

**Cheilanthes acrostica** *(Balb.) Tod.*, Synopsis plantarum acotyledonearum vascularium sponte provenientium insulisque adjacentibus: 215 (1866).

*Pteris acrostica* Balb., Elenco: 98 (Sep. 1801).
Type: "*Polypodium ilvense* Bell. / puto esse potius novam plantam pteridis genus". Originally from Mompantero near Susa (TO, lecto.), designated by Nardi & Reichstein (1985: 138).

*C. fragrans* var. *paleacea* Pamp., Plantae tripolitanae: 11 (1914).
Type: 'Garian, Uadi Garian, Ras Omcteba, 29 Apr. 1913', *Pampanini 4381* (FI, Herb. Libycum, lecto.), designated by Nardi & Reichstein (1985: 138).

*C. pteridioides* (Reichard) C.Chr. f. *paleacea* (Pamp.) Maire & Weiller in Encyclopédie Biologique 33: 71 (1952).

*C. pteridioides* auct., non (Reichard) C.Chr. (1905: 178).

Distribution: Algeria, Egypt, Ethiopia, Libya, Morocco, Tunisia.

**Cheilanthes angustifrondosa** *Alston* in Bulletin of the British Museum (Natural History), Botany 1: 48, pl. 2 (1952).
Type: 'Angola, District of Moxico, towards the top of a hill, south of Lusavo Falls, in *Brachystegia-Isoberlina* woodlands on sand near rocky outcrop, 12 Jan. 1938', *E.W.B.H. Milne-Redhead 4074* (K000435518!, holo.; BM, PRE0747410, iso.).

Distribution: Angola, DRC, Mozambique, Tanzania, Zambia.

**Cheilanthes bergiana** *Schltdl*., Adumbrationes plantarum 5: 51 (1832).
Type: 'In Promontorio bonae spei', *C.H. Bergius s.n*. (B20 0036306!, holo.; P00466519, ?iso.).

*Hypolepis bergiana* (Schltdl.) Hook., Species filicum 2,6: 67, 68 (Nov. 1852).

*C. elata* Kunze in Linnaea 10: 542 (1836).
Type: "Koratra, in sylva", *J.F. Drège s.n*. (LZ†, holo., BM!, lecto.), designated by Schelpe (1969b: 71); (B20 0000402!, isolecto.).

*Notholaena streetiae* Baker in Journal of the Linnean Society, Botany 16: 204, 205 (1877a), as '*Notochlaena*'.
Type: 'Madagascar, Antananarivo', *S. Street s.n*. (K000435472!, holo.).

*C. streetiae* (Baker) Baker in Journal of Botany, British and Foreign 1880: 327 (1880b).

Distribution: DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Cheilanthes boivinii** *Mett. ex Kuhn*, Filices africanae: 69, 70 (Oct. 1868).
Type: 'Ins. Comorae', *sine coll. s.n*. (not located); 'Ins Nossi-beh ad Madagascariam', *L.H. Boivin s.n*. (P00466518!, syn.).

Distribution: Madagascar.

**Cheilanthes bonapartei** *J.P.Roux*, nom. nov. for *Adiantopsis linearis* Bonap.

*Adiantopsis linearis* Bonap. in Notes Ptéridologiques 10: 185, 186 (18 Mar. 1920e).
Type: Madagascar. 'Règion floristiques du Centre et de l'Ouest. Sur la Mania. 700 mètres d'altitude. Fentes ombragées des quartzites. Mars 1919', *H. Perrier de la Bâthie 12539* (P00466503!, P00466504!, holo.; P00466502!, P00466505, iso.).

Distribution: Madagascar.

**Cheilanthes botswanae** *Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 151, 152 (2 Apr. 1982).
Type: "Botswana, Ootse Hills, 25 miles SE of Gaborone, SE Botswana, 4000 ft, 30-6-1974", *P.J. Mott 292* (BOL128009!, holo.; GH, K000435524!, PRE0612424, SRGH!, UBLS, iso.).

Distribution: Botswana, South Africa.

**Cheilanthes capensis** *(Thunb.) Sw*., Synopsis filicum: 128 (Mar.–Apr. 1806b).

*Adiantum capense* Thunb., Prodromus plantarum capensium: 173 (1800).
Type: 'e Cap. b. Spei', *C.P. Thunberg s.n*. (UPS-Thunb 25072!, holo.; LD, iso.).

*Hypolepis capensis* (Thunb.) Hook., Species filicum 2,6: 71, 72, pl. 77C (May 1852).

*Adiantopsis capensis* (Thunb.) Fée, Cinquième mémoires sur la famille des fougères: 145 (1852).

*C. praetexta* Kaulf., Enumeratio filicum: 212, 213 (Oct. 1824).
Type: 'Habitat in Promont. b. spei', *sine coll. s.n*. (LE?, holo.; E, iso.).

Distribution: Lesotho, Namibia, South Africa.

**Cheilanthes contracta** *(Kunze) Mett. ex Kuhn*, Filices africanae: 70 (Oct. 1868).

*C. hirta* Sw. var. *contracta* Kunze in Linnaea 10: 539 (1836).
Type: 'Ad kopje secus Zwartkoprivier, 500 p.', *J.F. Drège s.n*. (BM!, lecto.), designated by Anthony (1984: 60); (K, L, S!, SAM0024795-1!, SAM0024795-2!, isolecto.); "Piquetberg", *J.F. Drège s.n*. (B20 0037096, syn.); "Pr. b. sp.", *J.F. Drège s.n.* (B20 0037099, syn.).

*Myriopteris contracta* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 149 (1852).

*Pteris contracta* (Kunze) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 49 (1859a).

Distribution: South Africa.

**Cheilanthes coriacea** *Decne.* in Archives du Muséum d'Histoire Naturelle 2: 190 (1841).
Type: Yemen, Mt Sabor, 'Haguef', *P.E. Botta s.n*. (P, holo.).

*C. arabica* Buchinger in Flora 1846: 303 (1846), nom. nud.

*C. arabica* Kunze in Linnaea 23,2: 307 (1850).
Type: 'Abyssiniae', *Schimper 1431* (not located).

*C. decaisnii* Kunze in Linnaea 23,2: 307 (1850).
Type: as for *C. arabica* Kunze.

*Pellaea lomarioides* Baker in Bulletin of Miscellaneous Information, Royal Gardens Kew 1895: 229, 230 (1895).
Type: Somalia, Golis range, in rocky gorges at Dara-as, 5000 ft, *E. Cole s.n. & E.L. Phillips s.n*. (K000435457!, syn.); Somalia, *E.L. Phillips s.n*. (K000435458!, syn.).
Note: Kunze (1850: 307) ascribed *C. arabica* to Decaisne, but he never published this name. The names *C. arabica* Kunze and *C. decaisnii* Kunze are not specifically proposed as replacement names for *C. arabica*, but they appear to be replacement names for this species.

Distribution: Chad, Djibouti, Egypt, Eritrea, Ethiopia, Somalia, Sudan, Tanzania.

**Cheilanthes deboeri** *Verdc*. in Flora of tropical East Africa, Adiantaceae: 40 (2002a).
Type: 'Tanzania, Pare District, S Pare Mts, Kesihotwa Hill, Kwizu Forest', *R.J. Johns et al. 8674* (K000435463!, holo.; K000435462!, iso.).

Distribution: Tanzania.

**Cheilanthes deltoidea** *Kunze* in Linnaea 10: 535, 536 (1836).
Type: 'In rupium fissuris ad Zilverfontein', *J.F. Drège s.n*. (LZ†; K!, lecto.), designated by Anthony (1984: 109); (B20 0000388!, B20 0046113!, BM!, K000435560!, K000435561!, K000435562!, isolecto.).

*Pellaea deltoidea* (Kunze) Baker in Synopsis filicum 4: 146 (22 Jan. 1867b).

*Allosorus deltoideus* (Kunze) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Doryopteris deltoidea* (Kunze) Diels in Die natürlichen Pflanzenfamilien 1,4: 269 (Oct. 1899b).

*D. deltoidea* (Kunze) Diels var. *laxa* Sim, The ferns of South Africa, edn 2, 217, pl. 105, fig. 2 (1915).
Type: Cape Province, Namaqualand, between O'Okiep and Nababeep, 1883, *H. Bolus 9463* (PRE0091398-0, p.p., holo.; BOL, K, iso.).

Distribution: Namibia, South Africa.

**Cheilanthes depauperata** *Baker* in Annals of Botany (C. König, J. Sims, eds) 5: 210 (1891a).
Type: 'Cape Colony, Central Karroo region', *H. Barkly s.n*. (K000435525!, holo.; BOL128010!, SAM00247870!, iso.).

Distribution: South Africa.

**Cheilanthes dinteri** *Brause* in Botanische Jahrbücher 53: 385–387 (1915).
Type: 'Deutsch-Südwest-Afrika: Okahandja, 1 250 m ü. M., 18 Jan. 1907', *M.K. Dinter 392* (B20 0036629!, lecto.), designated by Anthony (1984: 203); (B20 0036627, BM!, GRA, K000435526!, K000435527!, P!, PRE0088316-0, S, SAM0098213-1!, SAM0098213-2!, isolecto.); "Rehobot, Quarzitfelsen an dem Kurub, 18.IX.88", *G. Gürich 102* (B20 0036624, B20 0036626, B20 003628, syn.).

Distribution: Angola, Namibia.

**Cheilanthes dolomiticola** *(Schelpe) Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982).

*Pellaea dolomiticola* Schelpe in Journal of South African Botany 34,4: 239 (Jul. 1968b).
Type: "Cape Province, Vryburg division, Tiger Kloof, 2. iv. 1956, locally common in north and south aspect limestone crevices, 4100 ft., 2.iv.1956", *E.A.C.L.E. Schelpe 5885* (BOL128011!, holo.; B20 0078090, BM!, C, GH, K000435563!, M, MO, NBG0120588-1!, NBG0120588-2!, NU, P004777491, PR, PRE0549564, S, iso.).

Distribution: South Africa.

**Cheilanthes eckloniana** *(Kunze) Mett*. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 66 (1859a).

*Notholaena eckloniana* Kunze in Linnaea 10: 501, 502 (1836).
Type: "Sneeubergen, locis rupestribus, 4000–5000 p., 1838", *J.F. Drège s.n*. (LZ†, BM!, lecto.), designated by Schelpe (1969b: 73); (G!, L, isolecto.).

*N. krebsiana* C.Presl, Tentamen pteridographiae: 224 (Oct. 1836), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Based on *Krebs*, Pl. cap. exs. 372 (not located).

Distribution: Lesotho, Namibia, South Africa, Swaziland, Zimbabwe.

**Cheilanthes erythraea** *Pic.Serm*. in Webbia 27,2: 420, 422, fig. 10, t. A–E [1972] (28 Feb. 1973a).
Type: 'Ethiopia, Eritrea: Oculè Cusai, gruppo dei montis Soyà, monte Mamahot verso il torrente Arigot, m 2 800–3 000, 23.VIII.1902.', *A. Pappi 1196* (FI-PS 11431; BOL128018, FI, FI-PS, iso.).

Distribution: Eritrea.

**Cheilanthes guanchica** *Bolle* in Bonplandia 7: 107 (1859).
Type: 'Insel Palma in dem tiefen Barranco del Rio', *E. Newman s.n*. (not located).

Distribution: Algeria, Morocco, Tunisia.

**Cheilanthes hastata** *(L.f.) Kunze* in Linnaea 10: 532 (1836).

*Adiantum hastatum* L.f., Supplementum plantarum: 447 (Apr. 1782).
Type: 'Cap. b. Spei', *sine coll. s.n*. (LINN 1252.4!, holo.).

*Pteris hastata* (L.f.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 69, 70 (1801), non Thunb. (1800: 172).

*Allosorus hastatus* (L.f.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Cassebeera hastata* (L.f.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 159 (1842a).

*Pellaea hastata* (L.f.) Link, Filicum species: 60 (Oct. 1841).

*Platyloma hastata* (L.f.) E.J.Lowe, Ferns: British and exotic 3: pl. 32 (1857).

*Pteris auriculata* Thunb., Prodromus plantarum capensium: 172 (1800).
Type: 'Promontorio bonae Spei', *C.P. Thunberg s.n*. (UPS, holo.).

*Cheilanthes auriculata* (Thunb.) Link, Hortus regius botanicus berolinensis: 36 (Jul.–Dec. 1833b).

*Allosorus auriculatus* (Thunb.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Cassebeera auriculata* (Thunb.) J.Sm. in Companion to the Botanical Magazine 72: 20 (1846).

*Pellaea auriculata* (Thunb.) Fée, Cinquième mémoires sur la famille des fougères: 129 (1852).

*Adiantum auriculatum* Thunb., Prodromus plantarum capensium: 173 (1800).
Type: 'Promontorio bonae Spei', *C.P. Thunberg s.n*. (UPS, holo.).

*Pteris auriculata* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 69 (1801), non Thunb. (1800: 172).

*Pteris varia* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 69 (1801).
Type: Cape of Good Hope, *sine coll. s.n.* (not located).

*Pellaea lancifolia* Baker in Journal of Botany, British and Foreign 3: 199 (1874b).
Type: 'Cape Province, Namaqualand', *H. Barkly s.n*. (K000435564!, holo.; GRA, SAM0024696-0!, iso.).

*Allosorus lancifolius* (Baker) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Pellaea hastata* (L.f.) Link var. *reticulata* Schelpe in Journal of South African Botany 35,2: 133 (1969a).
Type: '5 miles N of Sutherland', *E.A.C.L.E. Schelpe 4948* (BOL!, holo.).

Distribution: Namibia, South Africa.

See Plate 7E.

**Cheilanthes hirta** *Sw.*, Synopsis filicum: 128 (Mar.–Apr. 1806b), var. **hirta**.
Type: "Ex insula Mauritii", *C.F. Gröndahl s.n*. (S-PA!, lecto.), designated by Anthony (1984: 68).

*Adiantum hirtum* (Sw.) Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 142, 143 (3 Sep. 1810).

*Notholaena hirta* (Sw.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 50 (1842a).

*Myriopteris hirta* (Sw.) J.Sm., Ferns: British & Foreign: 174 (Jun.–Jul. 1866).

*A. caffrorum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 85 (1801), non (L.) L.f. (1782: 447).
Type: "Ex insula Mauritii", *C.F. Gröndahl s.n.* (S-PA!, holo.).

*N. capensis* Spreng., Systema vegetabilium, edn 16. Tentamen supplementi: 32 (Sep. 1828).
Type: 'Uitenhagen C. B. S.', *C.L.P. Zeyher 275* (LZ†; B20 0000409, K000435470!, ?iso.).

*C. hirta* Sw. var. *intermedia* Kunze in Linnaea 10: 539 (1836).
Type: 'In montib. Witbergen', *J.F. Drège s.n.* (LZ†; B20 0046116, lecto.), designated by Anthony (1984: 68); (SAM!, isolecto.).

*M. intermedia* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 149 (1852).

*C. glandulosa* Pappe & Rawson, Synopsis filicum Africae australis: 35 (Jan.–Jul. 1858), non Sw. (1817: 77), nec Fée (1852: 158).
Type: 'Griqualand', *R. Moffatt s.n.* (not located).

*C. hirta* Sw. var. *laxa* Kunze in Linnaea 10: 540 (1836).
Type: 'Prope Bokpoort in Nieuweveld', *J.F. Drège s.n.* (LZ†; B20 0000413, lecto.), designated by Anthony (1984: 68); (L, SAM0024795-2!, iso.).

*C. hirta* Sw. f. *laxa* (Kunze) Alston in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 20 (1954).

*C. hyaloglandulosa* W.Jacobsen & N.Jacobsen in South African Journal of Botany 51,2: 145–148 (3 May 1985).
Type: "Transvaal, farm Wanhoop 78JT, in montane grassland, 2 250 m, March 1981", *W.B.G. Jacobsen 5255* (PRE0461550, holo.; PRE0592198, iso.).

*C. hirta* Sw. var. *brevipilosa* W.Jacobsen & N.Jacobsen f. *laxa* (Kunze) W.Jacobsen & N.Jacobsen in Bothalia 18: 65 (1988).

*C. hirta* Sw. var. *brevipilosa* W.Jacobsen & N.Jacobsen in Bothalia 18: 64 (1988).
Type: "Transvaal, Johannesburg. Above Whinchester Hills, on rocky hillsides of Elsburg quartzites, 1 830 m, 5.1.1981", *W.B.G. Jacobsen 5254* (PRE0461548, holo.).

*C. hirta* Sw. var. *brevipilosa* W.Jacobsen & N.Jacobsen f. *waterbergensis* W.Jacobsen & N.Jacobsen in Bothalia 18: 68 (1988).
Type: "Transvaal, Potgietersrus, farm Ketting 368LR, south facing slopes, 1 085 m, 27.3.1979", *W.B.G. Jacobsen 5121* (PRE0461600, holo.).

*C. hirta* Sw. var. *nemorosa* W.Jacobsen & N.Jacobsen in Bothalia 18: 69 (1988).
Type: "Transvaal, Pilgrims Rest, Mount Sheba Nature Reserve, on way to Gola Gola Waterfall, 5400 ft, 4.6.1972", *W.B.G. Jacobsen 4443* (PRE0461549, holo.).

*C. hirta* Sw. var. *infercampestris* W.Jacobsen & N.Jacobsen in Bothalia 18: 71 (1988).
Type: 'Transvaal, Kruger National Park', *H.P. van der Schijff 3990* (PRE0090030-0, holo.).

*C. hirta* Sw. var. *contracta* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 137, fig. 19, t. 1–3 (May 1958b), non Kunze (1836: 539).

Distribution: Angola, Botswana, Ethiopia, Kenya, Lesotho, Madagascar, Mauritius, Mozambique, Namibia, Réunion, South Africa, Swaziland, Tanzania, Uganda, Zimbabwe.

**Cheilanthes hirta** *Sw*. var. **watermeyeri** *Verdc*. in Flora of tropical East Africa, Adiantaceae: 36 (2002a).
Type: 'Tanzania, Mbeya District, Kimani R. Valley', *Watermeyer 62* (K000435480!, holo.).

Distribution: Tanzania.

**Cheilanthes hispanica** *Mett*. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 74 (1859a).
Type: 'Hispania', *sine coll. s.n.* (not located).

Distribution: Algeria, Morocco, Tunisia.

**Cheilanthes inaequalis** *(Kunze) Mett*. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 68, t. 3, fig. 4 (1859a), var. **inaequalis**.

*Notholaena inaequalis* Kunze, Die Farrnkräuter 1,7: 146, pl. 64, fig. 1 (11–13 Jul. 1844a).
Type: Transvaal. "Macalis Berg", *J. Burke s.n.* (LZ†; B20 0130183, B20 0130184, BM!, K000435528!, iso.).

*N. inaequalis* Kunze var. *angolensis* Fritsch in Bulletin de l'Herbier Boissier, sér. 2, 1: 1090 (1901).
Type: Huíla, *F.X.O. de A. Newton 15* (W (not located), holo.).

*N. tricholepis* Baker in Journal of Botany, British and Foreign 1883: 245 (1883b), as '*Notochlaena*'.
Type: Tanzania, Mpwapwa Distr., Usagara Mts, *J. Hannington s.n.* (K000435519!, holo.).

Distribution: Angola, Burundi, Cameroon, DRC, Ethiopia, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Rwanda, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Cheilanthes inaequalis** *(Kunze) Mett*. var. **buchananii** *(Baker) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 211 (1967).

*Notholaena buchananii* Baker in Synopsis filicum 9: 373 (29 Jan. 1868a).
Type: 'Natal', *J. Buchanan & M.J. McKen 32* (K000435532!, lecto.), designated by Schelpe (1969b: 75); (BM!, isolecto).

*N. bipinnata* (Sim) Sim, The ferns of South Africa, edn 2, 224, pl. 109, fig. 2 (1915), p.p., excl. t. 109, fig. 2, non Liebm. (1849: 62).
Type: Bulawayo, *F. Eyles, & W.J.P. Johnson 1020* (GRA!, lecto.), here designated.

Distribution: DRC, Malawi, Mozambique, South Africa, Tanzania, Zambia, Zimbabwe.

**Cheilanthes induta** *Kunze* in Linnaea 10: 538 (1836).
Type: 'Locis rupestribus umbrosis in montibus Sneeubergen, Sept.', *J.F. Drège s.n.* (LZ†; B20 0000399, lecto.), designated by Anthony (1984: 43).

*Myriopteris induta* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 149 (1852).

Distribution: South Africa.

**Cheilanthes involuta** *(Sw.) Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982), var. **involuta**.

*Pteris involuta* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 69 (1801).
Type: Cape Province, *sine coll. s.n.* (UPS-Thunb!, holo.).

*Allosorus involutus* (Sw.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Pellaea involuta* (Sw.) Baker in Synopsis filicum, edn 2: 148 (Oct. 1874a).

*Pteridella involuta* (Sw.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 15 (Aug.–Sep. 1879).

*Pellaea viridis* (Forssk.) Prantl var. *involuta* (Sw.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 214 (1967).

*C. cornuta* Kunze in Linnaea 10: 534 (1836).
Type: "Klein-Vischrivier in rupestribus secus fluvium", *J.F. Drége s.n*. (LZ†; BM!, lecto.), designated by Roux (1986: 368); (HBG, L, isolecto.).

*Pteridella involuta* (Sw.) Mett. ex Kuhn var. *tripinnatisecta* Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 15 (Aug.–Sep. 1879).
Type: 'Abyssinia, in regione Habâb 3–5000 ped.', *Hildebrandt 322*, pt. (not located); 'in regione Schohos ad Chor Ain', *Steudner s.n.* (not located).

Distribution: Angola, Burundi, Kenya, Madagascar, Rwanda, Socotra, South Africa, Tanzania, Uganda.

**Cheilanthes involuta** *(Sw.) Schelpe & N.C.Anthony* var. **obscura** *(N.C.Anthony) N.C.Anthony* in Contributions from the Bolus Herbarium 11: 136 (15 Nov. 1984).

*C. viridis* (Forssk.) Sw. var. *obscura* N.C.Anthony in N.C.Anthony & E.A.C.L.E. Schelpe, Contributions from the Bolus Herbarium 10: 154 (2 Apr. 1982), p.p.
Type: 'Basutoland, Maseru, Devils Mountain, 8 800 ft, 17 July 1955', *Bowmaker 59* (BOL128012!, holo.).

*Pellaea involuta* (Sw.) Baker var. *obscura* (N.C.Anthony) Verdc. in Flora of tropical East Africa, Adiantaceae: 18 (2002a).

Distribution: Angola, Botswana, DRC, Kenya, Lesotho, Madagascar, Mozambique, Namibia, Socotra, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Cheilanthes kunzei** *Mett*. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 71, t. 3, figs 6, 7 (1859a).
Type: 'Ad rupes Zilverfontein', *J.F. Drège s.n*. (LZ†; B20 0000386!, lecto.), designated by Anthony (1984: 104, 105).

*Cheilosoria kunzei* (Mett.) Trevis. in Atti del Reale Istituto Veneto di Scienze, Lettere ed Arti 5,3: 580 (1877).

*Cheilanthes profusa* Kunze in Linnaea 10: 535 (1836).
Type: 'Ht. Reg. Berol. M. cl. Otto 1834', (LZ†).

*Notholaena profusa* (Kunze) C.Presl, Tentamen pteridographiae: 224 (Oct. 1836).

*Cheilanthes distans* Mett. var. *profusa* (Kunze) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 70 (1859a).

*Cheilanthes profusa* Kunze var. *minor* Kunze in Linnaea 10: 535 (1836).
Type: 'Ad rupes Zilverfontein, Augusto.', *J.F. Drège s.n*. (LZ†; B20 0000386!, iso.).

*Pellaea hastata* (L.f.) Link var. *minor* (Kunze) Schelpe in Journal of South African Botany 35,2: 133 (15 Mar. 1969a).

Distribution: Namibia, South Africa.

**Cheilanthes lanceolata** *(Bonap.) J.P.Roux*, comb. nov.

*Notholaena lanceolata* Bonap. in Notes Ptéridologiques 5: 64, 65 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique de l'Ouest. bassin de Monjoky, Menomatz. Grès du trias; bois secs. Septembre 1911', *H. Perrier de la Bâthie 7886* (P00466499!, holo.).

*N. madagascarica* Bonap. in Notes Ptéridologiques 5: 66–68 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique de l'Ouest. Cime du mont Ambatomainty ou Ambatomahay; sur la Sofia. Rochers dénudés et très secs. Gneiss. Août 1905', *H. Perrier de la Bâthie 7727* (P00466500!, holo.; P00466463!, P00466464, iso.).

*N. lanceolata* Bonap. var. *madagascarica* (Bonap.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 135 (May 1958b).

*Acrostichum squamosum* sensu Hook. in Synopsis filicum 10: 411 (Apr. 1868b), p.p.

Distribution: Madagascar.

**Cheilanthes leachii** *(Schelpe) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 212 (1967).

*Notholaena leachii* Schelpe in Journal of South African Botany 30,4: 185, t. 1, fig. A (21 Oct. 1964).
Type: 'Moçambique, Moçambique district, Ribauè, $1^1/_2$ miles SW of Poste Agricola; locally common around boulder bases on S. aspect of granite hill, 1800 ft. alt. 21.vii.1962', *E.A.C.L.E. Schelpe & L.C. Leach 6973* (BOL128013!, holo.; K000435516!, K000435517!, SRGH!, iso.).

Distribution: Malawi, Mozambique, Tanzania, Zambia, Zimbabwe.

**Cheilanthes ×litardierei** *Emb.* in Emb. & Maire in Mémoires de la Société des Sciences Naturelles du Maroc 21/22: 2 (1929).
Type: unknown to current author.

Distribution: Morocco.

**Cheilanthes madagascariensis** *Baker* in Journal of the Linnean Society, Botany 16: 198 (1877a).
Type: Madagascar, *H. Gilpin s.n*. (K000435469!, holo.).

*Adiantopsis madagascariensis* (Baker) C.Chr., Index filicum: 22 (5 May 1905).

*C. horizontalipinnata* Bonap. in Notes Ptéridologiques 16: 87, 88 (14 Apr. 1925a).
Type: Madagascar. 'Antety près Ambositra. Bois humides. Vers 1 600 mètres d'altitude. Mars 1912', *H. Perrier de la Bâthie 7892* (P00466512!, P00466513!, P00466514!; syn.); Madagascar. 'Massif d'Andingitra. Rocailles, gneiss. Vers 1 800 mètres d'altitude et jusqu'à 2 4 mètres, Septembre 1911', *H. Perrier de la Bâthie 7929* (P00466509!, P00466510!, P00466511!, syn.); Madagascar. 'Massif d'Andringitra. Rocailles ombragées, vers 1 800 mètres d'altitude, Févier 1922', *H. Perrier de la Bâthie 14503* (P00466506!, P00466507!, P00466508!, plus 1 unnumbered specimen, syn.).

Distribution: Madagascar.

**Cheilanthes marlothii** *(Hieron.) Schelpe* in Contributions from the Bolus Herbarium 1: 74 (17 Dec. 1969b).

*Notholaena marlothii* Hieron. in Botanische Jahrbücher 46,3: 384, 385 (1911).
Type: 'Deutsch-Südwest-Afrika: an der halbschattigen Glimmerschieferbergseite dei Okahandja, 1 200 m ü. M., 17 Jan. 1907', *M.K. Dinter 386* (B!, lecto.), designated by Schelpe (1969b: 74); (BR, GRA, K000435540!, SAM0098214!, SAM0003994!, iso.).

Distribution: Angola, Namibia, South Africa.

**Cheilanthes multifida** *(Sw.) Sw*., Synopsis filicum: 129, 334 (Mar.–Apr. 1806b).

*Adiantum multifidum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 85 (1801).
Type: 'Promont. bonae spei', *C.P. Thunberg s.n*. (S!, lecto.), designated by Anthony (1984: 183).

*A. globatum* Poir. in Encyclopédie méthodique, Botanique. Supplementum 1: 144 (3 Sep. 1810).

Type: Cape Peninsula, Table Mountain 'Cette plante croît au Cap de Bonne-Esperance', *sine coll. s.n.* (P-JU 1433, holo.).

*Polypodium dicksonifolium* Roxb. in Tracts relative to the island of St Helena: 318, 319 (Jan. 1816).
Type: St Helena, Diana's Peak, *J. Roxburgh s.n.* (?BM, holo.).

*C. multifida* (Sw.) Sw. var. *flexa* Kunze in Linnaea 10: 537 (1836).
Type: 'Ad rupes summitatis prope Omsamaba, Febr.', *J.F. Drège s.n*. (LZ†; B20 0046041!, lecto.), designated by Anthony (1984: 190, 191); (L, isolecto.).

*C. refracta* Pappe & Rawson, Synopsis filicum Africae australis: 34 (Jan.–Jul. 1858).
Type: In Griqualand, 1857, *R. Moffatt s.n*. (not located).

*C. bolusii* Baker in Hooker's Icones Plantarum: 17,2: pl. 1636 (1886c).
Type: 'Cape Colony; south-western district on the banks of the Breede River at Darling bridge, Oct. 1886', *H. Bolus 2801* (K000435545, holo.; BOL!, iso.).

*C. multifida* (Sw.) Sw. subsp. *lacerata* N.C.Anthony & Schelpe in Contributions from the Bolus Herbarium 10: 153 (2 Apr. 1982).
Type: 'Transvaal, Mariepskop, near summit of mountain, 6000 ft, 5 Dec. 1957', *H.G. Schweikerdt 2428* (BOL128015!, BOL128016!, holo.).

Distribution: Angola, Burundi, DRC, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, South Africa, St Helena, Sudan, Swaziland, Tanzania, Zambia, Zimbabwe.

**Cheilanthes namaquensis** *(Baker) Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982).

*Pellaea namaquensis* Baker in Journal of Botany, British and Foreign 3: 199, 200 (1874b).
Type: Namaqualand, *H. Barkly s.n*. (K000435565!, holo.; GRA, SAM0024702-0!, iso.).

*Allosorus namaquensis* (Baker) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

Distribution: Namibia, South Africa.

**Cheilanthes nielsii** *W.Jacobsen*, The ferns and fern allies of southern Africa: 252, 254, fig. 182a, b (1983).
Type: "Transvaal, Potgietersrus District, farm Goedgelegen 194 LR (2328 AD), Koperkop on coarse sandstone under overhanging rock in crevice on WSW aspect in partial shade, 1 070 m, 22.4.1979", *N.H.G. Jacobsen 5126* (PRE0461601, holo.).

Distribution: South Africa.

**Cheilanthes parviloba** *(Sw.) Sw*., Synopsis filicum: 128, 331 (Mar.–Apr. 1806b).

*Adiantum parvilobum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 85 (1801), as '*paruilobum*'.
Type: 'Promont. bonae spei', *sine coll. s.n*. (S!, holo., left hand specimen only).

*C. hirta* Sw. var. *parviloba* (Sw.) Kunze in Linnaea 10: 541 (1836).

Distribution: Namibia, South Africa.

**Cheilanthes pentagona** *Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 152 (2 Apr. 1982).
Type: 'South West Africa, Grootfontein, 5 mls east from Otavi, locally common in dolomite rock crevices, S aspect, 5200 ft, 16 July 1954', *E.A.C.L.E. Schelpe 4820* (BOL128017!, BOL128043, holo.; GH, K000435531, MO, PRE0616533, iso.).

Distribution: Angola, Namibia, South Africa, Zimbabwe.

See Plate 7F.

**Cheilanthes perlanata** *(Pic.Serm.) Kornaś*, Distribution and ecology of the pteridophytes of Zambia: 51 (1979).

*Notholaena perlanata* Pic.Serm. in Webbia 27,2: 417, 418, fig. 9, t. A–F [1972] (28 Feb. 1973a).
Type: 'Congo: Mines de Lupoto (Elizabethville), 13.VII.1948', *A. Schmitz 1855* ex Herbario Yangambiensi (FI-PS 19657, holo.).

Distribution: Burundi, DRC, Congo, Zambia.

**Cheilanthes perrieri** *J.P.Roux*, nom. nov. for *Notholaena lanceolata* Bonap., non *Cheilanthes lanceolata* C.Chr. (1913b: 334).

*Notholaena lanceolata* Bonap. in Notes Ptéridologiques 5: 65, 66 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique de l'Ouest. Bassin de Monjoky, Menomatz. Grès du trias; bois secs. Septembre 1911', *H. Perrier de la Bâthie 7886* (P00466499, holo.).

Distribution: Madagascar.

**Cheilanthes persica** *(Bory) Mett. ex Kuhn*, Filices africanae: 73 (Oct. 1868).

*Notholaena persica* Bory in Voyage aux Indes Orientales. Botanique 2,1: 23 (25 May 1833).
Type: unknown to current author.

Distribution: Algeria.

**Cheilanthes pteridioides** *(Reichard) C.Chr*., Index filicum: 178 (20 Aug. 1905), non *C. pterioides* Sw. (1806b: 128).

*Polypodium pteridioides* Reichard, Systema plantarum 4: 424 (Nov.–Dec. 1780), nom. prov. pro *Polypodium fragrans* L. (1771: 307), non L. (1753: 1089), nec *P. pterioides* Lam. (1779: 18).
Type: As for *Polypodium fragrans* L. (1771: 307), non L. (1753: 1089).

*C. pteridioides* (Reichard) C.Chr. f. *typica* Maire & Weiller in Encyclopédie Biologique 33: 71 (1952).
Type: As for *Polypodium fragrans* L. (1771: 307).

*P. fragrans* L., Mantissa plantarum, altera: 307 (Oct. 1771), nom. illeg. [McNeill *et al.* (2006) Art. 53.1)], non L. (1753: 1089), nec L. (1774: 788).
Provenance: 'Habitat in Gallia australi Baro Capucinus; ad muros Funschal. Koenig.' Lectotype: *J.G. König s.n*., Herb. Linn. No. 1251.33 (LINN), designated by Panigrahi & Basu (1982: 103).

*Adiantum fragrans* L.f., Supplementum plantarum: 447 (Apr. 1782), nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Polypodium fragrans* L. (1771: 307), non L. (1753: 1089).

*Allosorus fragrans* (L.f.) Farw. in The American Midland Naturalist 12,8: 284 (Mar. 1931).

*C. fragrans* Sw., Synopsis filicum: 127, 325 (Mar.–Apr. 1806b), p.p., incl. typ. et syn., excl. descr., nom. illeg. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Polypodium fragrans* L. (1771: 307), non L. (1753: 1089).

*C. suaveolens* Sw., Synopsis filicum: 127 (Mar.–Apr. 1806b), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: as for *Polypodium fragrans* L. (1771: 307).

*C. maderensis* Lowe in Transactions of the Cambridge Philosophical Society 6: 528 (1838).
Type: "Garden wall in a street near the Convent of Sta. Clara in Funchal, 6 Jan. 1848", *R.T. Lowe 29* (K!, holo.).
Note: K000435523 may be eligible as a type.

*C. maderensis* Lowe in Journal of Botany, British and Foreign 1: 26 (1834), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*C. pteridioides* (Reichard) C.Chr. var. *maderensis* (Lowe) Trab. in Mémoires de la Société des Sciences Naturelles du Maroc 8,1: 164 (1924).

*C. pteridioides* (Reichard) C.Chr. f. *maderensis* (Lowe) Maire & Weiller in Encyclopédie Biologique 33: 71 (1952).

*C. fragrans* (L.f.) Sw. subsp. *maderensis* (Lowe) Benl in Mitteilungen der Botanischen Staatssammlung München 6: 33 (15 Oct. 1966).

*Negripteris quezelii* Tardieu in Mission Botanique au Tibesti: 92, fig. 1, t. 1–5 (1958c).
Type: 'Tibesti, Emi-Koussi, lappiaz volcaniques du flanc N-W, 3 300 m, Sept–Nov. 1956', *P.A. Quézel s.n.* (P, holo.).

Chromosome number: sexual diploid, n = 30; 2n = 60 (Vida *et al.* 1971: 226, 1983: 103).

Distribution: Algeria, Cape Verde Isl. (Fogo), Djibouti, Egypt, Libya, Morocco, Tunisia.

**Cheilanthes quadripinnata** *(Forssk.) Kuhn*, Filices africanae: 74, 75 (Oct. 1868).

*Pteris quadripinnata* Forssk., Flora aegyptico-arabica: CXXIV, 186 (1 Oct. 1775).
Type: 'Yemen, montium Hadiensium', *P. Forsskål s.n.* (missing).

*Allosorus quadripinnatus* (Forssk.) C.Presl, Tentamen pteridographiae: 154 (Oct. 1836).

*Pteridella quadripinnata* (Forssk.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 16 (Aug.–Sep. 1879).

*Pellaea quadripinnata* (Forssk.) Prantl in Botanische Jahrbücher 3: 420 (1882).

*Pteris consobrina* Kunze in Linnaea 10: 526 (1836).
Type: 'In rupium fissuris montium Witbergen, Jan.', *J.F. Drège 8827* (B20 0000391, lecto.), designated by Anthony (1984: 172, 173).

*Pellaea consobrina* (Kunze) Hook., Species filicum 2,7/8: 145, pl. 117, fig. A (Jan.–Sep. 1858).

*A. consobrinus* (Kunze) Pappe & Rawson, Synopsis filicum Africae australis: 31 (Mar.–Apr. 1858).

*C. triangula* Kunze in Linnaea 10: 536 (1836).
Type: "Compasberg, in rupestribus umbrosis, 5–6000 ped.", *J.F. Drège s.n.* (LZ†; B20 0000393, lecto.), designated by Anthony (1984: 172, 173); (BM!, L, isolecto.).

*C. atherstonii* Hook., Species filicum 2,6: 107 (Nov. 1852).
Type: 'District of Somerset, S. Africa', *W.G. Atherstone s.n.* (K!, holo.).

*C. firma* T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 225 (1853a).
Type: Natal, *R.W. Plant 318* (BM, holo.; K000435566!, iso.).

*C. linearis* T.Moore in Journal of Botany (W.J. Hooker, ed.) 5: 226 (1853a).
Type: Natal, *R.W. Plant s.n.* (BM, holo.).

Distribution: Cameroon, Comoro Isl., Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

**Cheilanthes rawsonii** *(Pappe) Mett. ex Kuhn*, Filices africanae: 75 (Oct. 1868).
Type: 'Namaqualand, between Spectakel and Kommaggas', *H. Whitehead s.n.* (BM, holo.; K000435530!, S, iso.).

Distribution: Namibia, South Africa.

**Cheilanthes robusta** *(Kunze) R.M.Tryon* in Contributions of the Gray Herbarium of Harvard University 143: 72 (1942).

*Allosorus robustus* Kunze in Linnaea 10: 502, 503 (1836).
Type: 'In editioribus saxosis terrae Namaqua prope Goedemanskraal, Sept.', *J.F. Drège s.n.* (LZ†; SAM0024738!, lecto.), designated by Anthony (1984: 83); (BM, K000435404!, K000435408!, NY, isolecto.).

*Onychium robustum* (Kunze) Fée, Cinquième mémoires sur la famille des fougères: 132 (1852).

*Cryptogramma robusta* (Kunze) Pappe & Rawson, Synopsis filicum Africae australis: 32 (Jan.–Jul. 1858).

*Pellaea robusta* (Kunze) Hook., Species filicum 2,7/8: 147 (1858).

*Doryopteris robusta* (Kunze) Diels in Die natürlichen Pflanzenfamilien 1,4: 269 (Oct. 1899b).

Distribution: Namibia, South Africa.

**Cheilanthes schimperi** *Kunze*, Die Farrnkräuter 1,3: 52, pl. 26 (13–19 Dec. 1840).
Type: "In praeruptis umbrosis montis Scholoda. 24 Oct. 1837", *A.F.W. Schimper s.n.* (B20 0038509!, lecto.), here designated; 'prope Gafta', *A.F.W. Schimper 1207* (B20 0038509!, bottom left specimen only, B20 0038510!, B20 0038498!, W, syn.); 'prope Djeladjeranne, in declivibus versus fluvium Tacaze sub rupibus impendentibus, 1 Aug. 1840', *A.F.W. Schimper 1651* (B20 0038511!, W, syn.); 'prope Keren', *Steudner s.n.* (B20 0038500!, B20 0038511, bottom specimen only, syn.).

*Aspidotis schimperi* (Kunze) Pic.Serm. in Webbia 7: 326 (1950).

*Hypolepis schimperi* (Kunze) Hook., Species filicum 2,6: 70, 71 (Nov. 1852).

Distribution: Angola, Cameroon, DRC, Ethiopia, Malawi, Mozambique, Nigeria, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Cheilanthes scioana** *(Chiov.) J.P.Roux*, comb. nov.

*Mohria scioana* Chiov. in Atti della Reale Accademia d'Italia. Memoire delle classe di scienze fisiche, matematiche e naturali 11,2: 66 (1940).
Type: 'Abissinia meridionale—Scioa, colle sassoso sopra le sorgenti termali di Sodarè, nella media valle dell'Hauasc, nelle fessure delle rocce 1 100 m. C. 16 luglio 1909', *G. Negri 1186* (FT, holo.).

*Negripteris scioana* (Chiov.) Pic.Serm. in Nuovo Giornale Botanica Italiano, ser. 2, 53,1/2: 131, fig. 2c, t. 14 (1946b).

Distribution: Eritrea, Ethiopia, Kenya, Socotra, Somalia, Sudan.

**Cheilanthes similis** *F.Ballard* in Kew Bulletin 1957,1: 47 (1957a).
Type: Northern Rhodesia. Mwinilunga Distr., Luakela Falls, Mwinilunga, on road and by rocks on slope in open *Brachystegia* woodland', *E.W.B.H. Milne-Redhead 4351* (K000435477!, holo.; BM, iso.).

*C. heterophylla* sensu Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 89, t. 14, figs 1, 2 (1953d), non Willd. (1810: 210).

Distribution: Burundi, DRC, Tanzania, Zambia.

**Cheilanthes tinaei** *Tod.*, Synopsis plantarum acotyledonearum vascularium sponte provenientium insulisque: 217, 218 (1866).
Type: "Messina, Cheilanthes odora var. stipite glabrato", (PAL, holo.); "Legato A. Todaro.

Messina, Cheilanthes? Stipite glabrato", (PAL, iso.).

*C. fragrans* Webb & Berth. var. *β tinaei* (Tod.) Nicotra in Malpighia 7: 92 (1893), as '*Tinei*'.

*C. corsica* Reichst. & Vida in Candollea 28,1: 85 (13 Jul. 1973). Type: 'Granitfelsen, wenige Meter südlich, unterhalb des Gipfels des Mt. Mélèze (164 m) südwestl. Pianottoli-Caldarello (NW von Bonifacio), Korsika', *H. Rasbach & K. Rasbach TR-3310* (G, holo.; BM, BP, K, ZT, Herb. Reichst., iso.).

Distribution: Algeria, Morocco, Tunisia.

**Cheilanthes tricholepifera** *(Pic.Serm.) J.P.Roux*, comb. nov.

*Negripteris tricholepifera* Pic.Serm. in Webbia 27,2: 411, 412, fig. 7, t. A–E [1972] (28 Feb. 1973a). Type: 'Ethiopia, Bale: Paese dei Gherire. Regione tra El Marà nei luoghi umidi nel sottobosco del Bosso, 8 Nov.–2 Dic. 1937', *E. Reghini 3* (FI-PS 13251, holo.; FI-PS 13251 iso.).

Distribution: Ethiopia.

**Cheilanthes viridis** *(Forssk.) Sw.*, Synopsis filicum: 127 (Mar.–Apr. 1806b), var. **viridis**.

*Pteris viridis* Forssk., Flora aegyptico-arabica: CXXIV, 186 (1 Oct. 1775). Type: 'Yemen, montium Hadiensium', *P. Forsskål s.n.* (missing).

*Adiantum viride* (Forssk.) Vahl, Symbolae botanicae 2: 104 (Jul.–Sep. 1791).

*Pteridella viridis* (Forssk.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 16 (Aug.–Sep. 1879).

*Pellaea viridis* (Forssk.) Prantl in Botanische Jahrbücher 3: 420 (1882).

*Pteris elliptica* Poir. in Encyclopédie méthodique. Botanique 5: 713, 714 (9 Jan. 1804). Type: 'Cette espèce croît naturallement aux îles Séchelles', *sine coll. s.n.* (P-LA, holo.).

*Pteris adiantoides* Bory ex Willd., Species plantarum, edn 4, 5,1: 391 (25–27 Jun. 1810). Type: "Habitat in insula Mauritii, Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 20002!, holo.; P00466462!, iso.).

*Allosorus adiantoides* (Bory ex Willd.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Pellaea adiantoides* (Bory ex Willd.) J.Sm., Cultivated ferns: 4 (1857a).

*Platyloma adiantoides* (Bory ex Willd.) E.J.Lowe, Ferns: British and exotic 3: 89, 90, pl. 33 (1857).

*Pteridella adiantoides* (Bory ex Willd.) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 14 (Aug.–Sep. 1879).

*Pteris hastifolia* Schrad. in Göttingische gelehrte Anzeigen 1818: 917 (1818), as '*hastaefolia*'. Type: Cape, *C.H.F. Hesse s.n.* (GOET!, holo.).

*C. hastata* (L.f.) Kunze var. *canonica* Kunze in Linnaea 10: 532, 533 (1836). Type: 'In rupestribus ad Glenfilling (distr. Albany), Decbr.', *J.F. Drège s.n.* (LZ†; B20 0000370!, lecto.), designated by Anthony (1984: 144, 149); (B20 0000365!, L, isolecto.).

*Pellaea viridis* (Forssk.) Prantl var. *canonica* (Kunze) Verdc. in Flora of tropical East Africa, Adiantaceae: 20 (2002a).

*C. hastata* (L.f.) Kunze var. *stenophylla* Kunze in Linnaea 10: 533 (1836). Type: 'In sylvarum initio ad Krakakamma et in montibus Stadensrivierberge, denique prope Philipstown et in mont. Winterberg', *C.F. Ecklon s.n.* (LZ†, holo.).

*Pteris hastata* Sw. var. *minor* Bolle in Bonplandia 3,10: 122 (1855), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Type: "S. Nicolao, Caboverde, 1851", *C. Bolle s.n.* (B20 0000447, lecto.), designated by Lobin, note on sheet dated 1962; 'In montibus antoniensibs supra Ribeira de Paul, Novembri 1852', *C. Bolle s.n.* (?, syn.).

*Pellaea hastata* (L.f.) Link var. *minor* (Bolle) A.Chev. in Revue de botanique appliquée et d'agriculture tropicale 15:170/171: 1058, 1059 (1935), non *Pellaea hastata* (Thunb.) Prantl (1882: 418).

*Pellaea viridis* (Forssk.) Prantl var. *incisa* H.Christ ex Bonap. in Notes Ptéridologiques 16: 83 (14 Apr. 1925a). Type: Madagascar. 'Massif de Manongarivo. Versant du Sambirano. Rocailles ombragèes, gneiss; vers 800 mètres d'altitude, Avril 1909', *H. Perrier de la Bâthie 7850* (P?, holo.).

*Pellaea hastata* sensu Sim, The ferns of South Africa: 101, 102, pl. 38 (1892).

Distribution: Angola, Botswana, Burundi, Cape Verde Isl. (Sto. Antão, S. Nicolau, Fogo), Comoro Isl., DRC, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Réunion, Rodrigues Isl., Rwanda, Socotra, Somalia, South Africa, Socotra, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Cheilanthes viridis** *(Forssk.) Sw.* var. **glauca** *(Sim) Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982).

*Pellaea hastata* (L.f.) Link var. *glauca* Sim, Handbook of the ferns of Kaffraria: 30, pl. 19 (Oct. 1891). Type: South-west of King Williamstown, *T.R. Sim s.n.* (PRE0092565, holo.).

*P. viridis* (Forssk.) Prantl var. *glauca* (Sim) Sim, The ferns of South Africa, edn 2: 209, pl. 97 (1915).

Distribution: Angola, Botswana, Kenya, Malawi, Mauritius, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Cheilanthes viridis** *(Forssk.) Sw.* var. **macrophylla** *(Kunze) Schelpe & N.C.Anthony* in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982).

*C. hastata* (L.f.) Kunze var. *macrophylla* Kunze in Linnaea 10: 532 (1836). Type: "Ad catarractam magnam prope Omsamcaba, in umbrosis", *J.F. Drège s.n.* (LZ†; K000435567!, K000435568!, lecto.), designated by Anthony (1984: 156, 157); (B20 0000368!, top left specimen only, B20 0130227, BM!, iso.).

*C. macrophylla* (Kunze) Kunze in Linnaea 23: 307 (1850).

*Allosorus hastatus* (L.f.) C.Presl var. *macrophylla* (Kunze) Pappe & Rawson, Synopsis filicum Africae australis: 30 (Jan.–Jul. 1858).

*Pellaea hastata* (L.f.) Link var. *macrophylla* (Kunze) Hook., Species filicum 2,7/8: 146, pl. 116, fig. B (Jan.–Sep. 1858).

*P. viridis* (Forssk.) Prantl var. *macrophylla* (Kunze) Sim, The ferns of South Africa, edn 2: 208, 209, pl. 99 (1915).

Distribution: Burundi, DRC, Kenya, Rwanda, South Africa, Swaziland, Tanzania.

## COSENTINIA

**Cosentinia** *Tod.*, Synopsis plantarum acotyledonearum vascularium sponte provenientium insulisque adjacentibus: 14 (Jan.–Sep. 1866). Type: *Cosentinia vellea* (Aiton) Tod.

**Cosentinia vellea** *(Aiton) Tod.*, Synopsis plantarum acotyledonearum vascularium sponte provenientium insulisque adjacentibus: 15 (Jan.–Sep. 1866), subsp. **vellea**.

*Acrostichum velleum* Aiton, Hortus kewensis 3: 457 (7 Aug.–1 Oct. 1789).
Type: 'Nat. of Madeira', *F. Masson s.n.* (K, lecto.), designated by Pichi Sermolli (1985c: 179).

*Cheilanthes vellea* (Aiton) F.Muell. in Fragmenta phytographiae Australiae 5: 123 (Apr. 1865–Dec. 1866), excl. syn. Browniano.

*Notholaena vellea* (Aiton) Desv. in Journal de Botanique, appliquée à l'Agriculture, à la Pharmacie, à la Médecine et aux Arts 1: 92, 93 (1813), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non R.Br. (1810: 146).

*Cincinalis vellea* (Aiton) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 312 (1811).

*N. plukenetii* Fée, Cinquième mémoires sur la famille des fougères: 159 (1852), nom. nov. for *Acrostichum velleum* Aiton (1789: 457).

*Gymnogramma vellea* (Aiton) Kuhn, Filices africanae: 61 (Oct. 1868), as '*Gymnogramme*'.

*A. catanensis* Cosent. in Atti dell'Accademia Gioenia di Scienze Naturali di Catania 2: 207, 218, t. c (1827).
Type: Sicily, *sine coll. s.n.* (PC, holo.?).

*Cheilanthes catanensis* (Cosent.) H.P.Fuchs in The British Fern Gazette 9,2: 45 (1961).

*A. lanuginosum* Desf., Flora atlantica 2,9: 400, pl. 256 (Jul. 1799).
Type: 'Habitat in fissuris rupium Atlantis', *Desfontaines s.n.* (?P-Desf.).
Note: Pichi Sermolli (1985c: 179) noted the lectotype being at Paris (P).

*N. lanuginosa* (Desf.) Poir. in Encyclopédie méthodique, Botanique. Supplementum 4,1: 110 (29 Jun. 1816a), non *Cheilanthes lanuginosa* M.Martens & Galeotti (1842: 75).

*G. lanuginosa* (Desf.) A.Braun in Appendix generum et specierum novarum: 18 (Dec. 1854).

*N. vellea* (Aiton) Desv. f. *cheilanthoides* Trab. ex Emb. in Catalogue des plantes du Maroc 4: 917 (1941).
Type: 'Mont Hamra au S d'Oujda', *L.O. Ducellier s.n.* (?, syn.); 'Berkane, Mont Tamedjout', *A. Faure s.n.* (?, syn.).

Chromosome number: tetraploid, 2n = 116 (Vida *et al.* 1971: 251, 1983: 103; Viane *et al.* 1996: 297).

Distribution: Algeria, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Fogo), Egypt, Ethiopia, Libya, Morocco, Somalia, Sudan, Tunisia.

## DORYOPTERIS

**Doryopteris** *J.Sm.* in Journal of Botany (W.J. Hooker, ed.) 3,24: 404, 405 (1841), nom. cons. Type: *Doryopteris palmata* (Willd.) J.Sm.; *Pteris palmata* Willd. (now *Doryopteris pedata* (L.) Fée var. *palmata* (Willd.) Hicken.

*Doryopteris* J.Sm. sect. *Lytoneuron* Klotzsch in Linnaea 20: 343 (1847). Type: *Doryopteris geraniifolia* (Raddi) Klotzsch; *Pteris geraniifolia* Raddi (now *Dryopteris concolor* (Langsd. & Fisch.) Kuhn.

**Doryopteris concolor** *(Langsd. & Fisch.) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 19 (Aug.–Sep. 1879).

*Pteris concolor* Langsd. & Fisch., Plantes recueillies pendant le voyage des Russes autour du monde 1, Icones filicum: 19, pl. 21 (1810).
Type: 'Archipelagi Marquesas; insula Nucahiva', *Krusenstern Exped. s.n.* (LE, holo.; B-W 19961-01 0, BM, iso.).

*Pellaea concolor* (Langsd. & Fisch.) Baker in Flora brasiliensis 1,2: 396, t. 43, fig. III (1 May 1870).

*Allosorus concolor* (Langsd. & Fisch.) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Cheilanthes concolor* (Langsd. & Fisch.) R.M.Tryon & A.F.Tryon in Rhodora 83,833: 133 (1981).

*Pteris pohliana* C.Presl in Presl & Presl, Deliciae pragenses 1: 181, 182 (Jul. 1822).
Type: 'Hab. ad Rio-Janeiro Brasiliae', *sine coll. s.n.* (not located).

*Adiantum palmatum* Schumach., Beskrivels af Guineeiske planter: 460 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 234 (1829).
Type: Ghana, 'Aquapim', *P. Thonning 307* (C, syn.), non *D. palmata* J.Sm. (1842a: 163).

*C. kirkii* Hook., A second century of ferns: pl. 81 [1860] (1861).
Type: Mozambique. 'Moramballa Mountain, Zambesi, elev. 3000–3500 feet', *J. Kirk s.n.*, in Dr. Livingstone's Zambesi Expedition, Dec. 1858 (K000435573!, holo.).

*D. concolor* (Langsd. & Fisch.) Kuhn var. *kirkii* (Hook.) R.E.Fr., Wissenschaftliche Ergebnisse der Schwedischen Rhodesia-Kongo Expedition 1911–1912, 1: 4 (1914).

*D. kirkii* (Hook.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 14 (1956a).

*D. nicklesii* Tardieu in Notulae Systematicae (Paris) 13,3: 166 (1948a).
Type: 'Bangui, dans les fissures des rochers humides, août 1946', *M. Nicklès 95* (P00466454!, holo.).

*D. concolor* (Langsd. & Fisch.) Kuhn var. *nicklesii* (Tardieu) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 212 (1967).

*Pellaea geraniifolia* sensu Sim, The ferns of South Africa: 92, 93, pl. 33 (1892), as '*geraniaefolia*'.

Chromosome number: n = 30 (Manton 1959: 79).

Distribution: Angola, Botswana, Burundi, Cameroon, Central Africa Republic, Comoro Isl., Cotê d'Ivoire, DRC, Eritrea, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Nigeria, Rwanda, Socotra, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Doryopteris cordifolia** *(Baker) Diels* in Die natürlichen Pflanzenfamilien 1,4: 270 (Oct. 1899b).

*Pteris cordifolia* Baker in Journal of Botany, British and Foreign 1891: 4 (1891b).
Type: Madagascar, Bé Kilus Mountains, *J.T. Last s.n.* (K000435569, holo.).

Distribution: Madagascar.

**Doryopteris humbertii** *Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 144, 146, fig. XX, t. 1–3 (May 1958b).
Type: Madagascar. 'Centre (Sud-Est): vallée du Mandrere, montagne de Tanandava', *H. Humbert 20494* (P00466461!, holo.; P00466459!, P00466460!, iso., plus 1 unnumberd sheet).

Distribution: Madagascar.

**Doryopteris kitchingii** *(Baker) Bonap. ex C.Chr.*, Index filicum. Supplementum tertium pro annis 1917–1933: 78 (Oct. 1934).

*Pellaea kitchingii* Baker in Journal of Botany, British and Foreign 1880,9: 327 (1880b).
Type: Madagascar. 'Betsileo country', *L. Kitching s.n.* (K000435570, holo.).

*Allosorus kitchingii* (Baker) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

Distribution: Madagascar.

**Doryopteris latiloba** *C.Chr*. in Archives de Botanique, Bulletin Mensuel 2,12: 213 (Dec. 1928).
Type: Madagascar. 'Pic d'Ivohibe, Bara', *H. Humbert 3195* (P00466458!, holo.; P00466457!, iso.).

Distribution: Madagascar.

**Doryopteris madagascariensis** *Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 148 (May 1958b).
Type: Madagascar. 'Centre: forêt d'Analavelona, au nord du Fiherenana', *H. Humbert 14209* (P00466456!, holo.; P00466455!, iso.).

Distribution: Madagascar.

**Doryopteris pedatoides** *(Desv.) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 63 (Aug.–Sep. 1879).

*Pteris pedatoides* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 293, 294, t. 7, fig. 2 (Jul. 1827).
Type: 'Crescit in insula Mascareigne', *sine coll. s.n*. (P00466453!, holo.).

Distribution: Madagascar, Mauritius, Réunion.

**Doryopteris pilosa** *(Poir.) Kuhn* in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 63 (1879), var. **pilosa**.

*Pteris pilosa* Poir. in Encyclopedie méthodique, Botanique 5: 717 (9 Jan. 1804).
Type: 'Des environs du Gol dans les rochers, Ile de Bourbon', *P. Commerson s.n*. (P-LA, holo.).

*Pellaea pilosa* (Poir.) Hook., Species filicum 2,7/8: pl. 114A (Jan.–Sep. 1858).

*Allosorus pilosus* (Poir.) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Cheilanthes pilosa* (Poir.) Tardieu in Notulae Systematicae (Paris) 14,4: 364 (Dec. 1953c).

*Adiantum polymorphum* Poir. in Encyclopédie méthodique, Botanique. Supplementum 1,1: 142 (3 Sep. 1810).
Type: 'l'île Bourbon', *L.-M.A. du Petit-Thouars s.n*. (?P, holo.).

*C. polymorpha* (Poir.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 305 (Jul. 1827).

*C. heterophylla* Kaulf., Enumeratio filicum: 210 (Oct. 1824).
Type: 'Habitat in insula Mauritii', *P. Commerson s.n*. (K000435471!, iso.).

*Pellaea hirtula* C.Chr. in Notes Ptéridologiques 16: 190, 191 (14 Apr. 1925a).
Type: 'Mont Androhiboalava, sur l'Ihobaika (Onilahy), rocailles boisées, Juillet 1910', *H. Perrier de la Bâthie 15863* (P00466452!, holo.; P00466451!, iso.).

Distribution: Madagascar, Mauritius, Réunion.

**Doryopteris pilosa** *(Poir.) Kuhn* var. **gemmifera** *J.E.Burrows & S.E.Strauss* in Bothalia 20: 221, figs 13, 14A, B (1990).
Type: "Transvaal, Thabazimbi Distr., Geelhoutbosch, next to large boulders near the T-junction, 1 350 m, 1/2/1988", *S. Strauss 17* (PRE0592118, holo.).

Distribution: South Africa.

## PARACETERACH

**Paraceterach** *(F.Muell.) Copel*., Genera filicum: 75 (1947).

*Grammitis* Sw. sect. *Paraceterach* F.Muell., Fragmenta 5: 138 (Apr. 1865–Dec. 1866). Type: *Paraceterach muelleri* (Hook.) Copel.; *Gymnogramma muelleri* Hook.

**Paraceterach marantae** *(L.) R.M.Tryon* in American Fern Journal 76,4: 186 (1986a), subsp. **marantae**.

*Acrostichum marantae* L., Species plantarum 2: 1071 (1 May 1753), as '*maranta*'.
Provenance: 'Habitat in Europae australi.' Lectotype: Magnol, Herb. Linn. No. 1245.12 (LINN), designated by Schelpe (1969b: 73).

*Notholaena marantae* (L.) R.Br., Prodromus florae Novae Hollandiae: 145 (1–7 Apr. 1810).

*Cincinalis marantae* (L.) Desv. in Magazin der neuesten Erfahrungen in der gesammten Naturkunde 5: 312 (1811), as '*maranthae*'.

*Ceterach marantae* (L.) DC. in Flore françoise edn 3, 4,2: 567 (17 Sep. 1815b).

*Gymnogramma marantae* (L.) Mett., Filices horti botanici lipsiensis: 43 (May–Jun. 1856a).

*Cheilanthes marantae* (L.) Domin. in Bibliotheca Botanica 20,85: 133 (1915).

Distribution: Algeria, Eritrea, Ethiopia, Morocco, Somalia.

**Paraceterach marantae** *(L.) R.M.Tryon* subsp. **subcordata** *(Cav.) J.P.Roux*, comb. nov.

*Acrostichum subcordatum* Cav. in Anales de Ciencias Naturales 4: 97 (1802).
Type: unknown to current author.

*Cheilanthes marantae* (L.) Domin. subsp. *subcordata* (Cav.) Benl & Poelt in Benl, Mitteilungen der Botanischen Staatssammlung München 5: 267 (20 Dec. 1964).

*Notholaena marantae* (L.) R.Br. subsp. *subcordata* (Cav.) Kunkel in Cuadernos de botánica Canaria 5: 46 (1969b).

Distribution: Cape Verde Isl. (Sto. Antão, S. Nicolau, Santiago, Fogo).

## PELLAEA

**Pellaea** *Link*, Filicum species: 59 (Oct. 1841), nom. cons. Type: *Pellaea atropurpurea* (L.) Link; *Pteris atropurpurea* L.

*Pellaea* Link sect. *Holcochlaena* Hook. & Baker, Synopsis filicum 4: 153 (22 Jan. 1867b). Type: *Pellaea articulata* (Kaulf. ex Spreng.) Baker; *Pteris articulata* Kaulf. ex Spreng. (now *Pellaea angulosa* (Bory ex Willd.) Baker; *Pteris angulosa* Bory ex Willd.).

*Pellaeopsis* J.Sm., Historia filicum: 289 (Oct.–Dec. 1875).
Type: *Pellaeopsis articulata* (Kaulf. ex Spreng.) J.Sm.; *Pteris articulata* Kaulf. ex Spreng. (now *Pellaea angulosa* (Bory ex Willd.) Baker; *Pteris angulosa* Bry ex Willd.).

*Pteridella* Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 13 (Aug.–Sep. 1879).
Type: *Pteridella doniana* (J.Sm. ex Hook.) Mett. ex Kuhn; *Pellaea doniana* J.Sm. ex Hook.

*Pellaea* Link subgen. *Pteridella* (Mett. ex Kuhn) C.Chr., Index filicum: xl (10 Oct. 1906).

*Pellaea* Link sect. *Pteridella* (Mett. ex Kuhn) Prantl in Botanische Jahrbücher 3: 417 (1882).

**Pellaea angolensis** *Schelpe* in Garcia de Orta, Série de Botânica 3,1: 53, 54 (1976).
Type: 'Angola, Cuanza Sul, Ambiom, arredares da Gabela, lugares rochosos, húmidos e sombrois, 700 m, 1 Oct. 1971', *M. da Silva 3849* (LUAU, holo.; COI, iso.).

Distribution: Angola.

**Pellaea angulosa** *(Bory ex Willd.) Baker* in Synopsis filicum, edn 2: 153 (Oct. 1874a).

*Pteris angulosa* Bory ex Willd., Species plantarum, edn 4, 5,1: 377, 378 (25–27 Jun. 1810).
Type: "Habitat in Borbonia", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19983!, holo.; P00466497, iso.).

*Pteridella angulosa* (Bory ex Willd.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 15 (Aug.–Sep. 1879).

*Allosorus angulosus* (Bory ex Willd.) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891), as '*angulosa*'.

*Pteris articulata* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 76 (Jan. 1827).
Type: 'Ins. Mascaren.', *F.W. Sieber*, Syn. fil. 77 s.n. (P00466498!, iso.).

*Litobrochia articulata* (Kaulf. ex Spreng.) C.Presl, Tentamen pteridographiae: 149 (Oct. 1836).

*Doryopteris articulata* (Kaulf. ex Spreng.) Fée, Cinquième mémoires sur la famille des fougères: 133 (1852).

*Pellaea articulata* (Kaulf. ex Spreng.) Baker in Synopsis filicum 4: 153 (22 Jan. 1867b).

*Pellaeopsis articulata* (Kaulf. ex Spreng.) J.Sm., Historia filicum: 290 (Oct.–Dec. 1875).

*Pellaea angulosa* (Bory ex Willd.) Baker f. *rotunda* Bonap. in Notes Ptéridologiques 4: 75, 76 (19 May 1917b).
Type: Madagascar. 'Règions floristiques de l'Ouest et du Centre. Montagnes du Haut Bemarivo, rocailles humides et ombragées; entre 300 et 900 métres d, altitude. Août 1907', *H. Perrier de la Bâthie 7830* (P?, holo.).

Distribution: Madagascar, Malawi, Mauritius, Mozambique, Réunion, Seychelles (Mahé), Tanzania, Zimbabwe.

**Pellaea boivinii** *Hook*., Species filicum 2,7/8: 147, pl. 118A (Jan.–Sep. 1858), var. **boivinii**.
Type: 'South-eastern Africa, Macalisberg', *C.L.P. Zeyher & J. Burke s.n*. (?, syn.); 'Island of Nisobé, east coast of Africa', *L.H. Boivin s.n*. (K000435556!, lecto.), designated by Schelpe (1969b: 78); 'Mauritius', *W. Bojer s.n*. (?, syn.).

*Pteris boivinii* (Hook.) Bedd., The ferns of southern India: 12, pl. 36 (1863).

*Allosorus boivinii* (Hook.) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Pellaea boivinii* Hook. f. *bipinnata* C.Chr. in Dansk Botanisk Arkiv 7: 114 (Oct. 1932b).
Type: 'Boina', *H. Perrier de la Bâthie 7847, 7855* (P?, syn.); 'Zazafotsy', *H. Perrier de la Bâthie 7952* (P?, syn.); 'Ankatso', *R. Decary 6741* (P?, syn.).

Distribution: Botswana, Comolo Isl., Kenya, Madagascar, Mauritius, South Africa, Tanzania, Zambia, Zimbabwe.

**Pellaea boivinii** *Hook*. var. **tripinnata** *C.Chr*., Dansk Botanisk Arkiv 7: 115, pl. 43, figs 6, 7 (Oct. 1932b).
Type: Mt Ambohibenga, *H. Perrier de la Bâthie 7825* (P?, syn.); Imandrazaka, *A. Petit 73, 77* (P?, syn.); Plateau de l'Horombe, west of Ihosy valley, *H. Humbert 2938* (P?, syn.); Ankazobe, *R. Decary 7354* (P?, syn.).

*P. boivinii* Hook. var. *tripinnata* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 46 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*P. boivinii* Hook. var. *multifrondulosa* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 45 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*P. boivinii* Hook. var. *multifrondulosa* C.Chr. in Dansk Botanisk Arkiv 7: 115, pl. 44, figs 8, 9 (Oct. 1932b).
Type: 'Near Ambohibeloma', *P. Camboué s.n*. (?BM, syn.); 'Ambohimalaza near Ankazobe', *R. Decary 7710* (? BM, syn.).

Distribution: Madagascar, Mauritius.

**Pellaea calomelanos** *(Sw.) Link*, Filicum species: 61 (Oct. 1841), var. **calomelanos**.

*Pteris calomelanos* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 70 (1801).
Type: 'e Cap. b. Spei', *C.P. Thunberg s.n.* (UPS-Thunb 24895!, holo.).

*Allosorus calomelanos* (Sw.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Platyloma calomelanos* (Sw.) J.Sm. in Companion to the Botanical Magazine 72: 21 (1846).

*Notholaena calomelanos* (Sw.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 29 (1873).

*Pteridella hastata* sensu Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 14 (Aug.–Sep. 1879).

*Pteris hastata* sensu Thunb., Prodromus plantarum capensium: 172 (1800), non (L.f.) Sw. (1801: 69).

*Pellaea hastata* sensu Sim, The ferns of South Africa, edn 2: 211, 212, pl. 100 (1915).

Distribution: Angola, Botswana, Burundi, Comoro Isl., DRC, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Réunion, Rwanda, Somalia, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pellaea calomelanos** *(Sw.) Link* var. **swynnertoniana** *(Sim) Schelpe* in Journal of South African Botany 30,4: 187 (1964).

*P. swynnertoniana* Sim, The ferns of South Africa, edn 2: 213, pl. 101 (1915).
Type: "Rhodesia, in silva Chirinda", *C.F.M. Swynnerton 850* (K000435555!, holo.; P00477838!, iso.).

Distribution: Malawi, Mozambique, Tanzania, Zimbabwe.

**Pellaea doniana** *J.Sm. ex Hook*., Species filicum 2,7/8: 137, pl. 125, fig. A (Jan.–Sep. 1858).
Type: 'Tropical Western Africa, Island of St Thomas, Bight of Biafra', *G. Don s.n*. (BM ex Herb. John Smith, holo.; K, ?iso.); 'Acra', *T. Vogel s.n.* (K000435553, syn.).

*Pteris doniana* (J.Sm. ex Hook.) Kuhn, Filices africanae: 80 (Oct. 1868).

*Pteridella doniana* (J.Sm. ex Hook.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 13 (Aug.–Sep. 1879).

*Allosorus doniana* (J.Sm. ex Hook.) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891), as '*donianus*'.

*Pellaea doniana* J.Sm. ex Hook. var. *β* Hook., Species filicum 2,7/8: 137 (Jan.–Sep. 1858).
Type: 'Abeokuta', *E.G. Irving s.n*. (K000435552, holo.).

*Pellaea doniana* J.Sm. ex Hook. var. *pilosus* Bonap. in Notes Ptéridologiques 5: 61 (1917d).
Type: Madagascar. 'Belamba près de Mevetanana. Rochers boisés, Novembre 1900', *H. Perrier de la Bâthie 412* (P00466483, P00466484, P00466485!, syn.); Madagascar. 'Boïna. Haut Bemarivo. Rocailles boisées, Avril 1907', *H. Perrier de la Bâthie 2302* (P00466482!, syn.); Madagascar. 'Boëny. Rocailles sèches et ombragèes, sans date', *H. Perrier de la Bâthie 7821* (P00466481!, syn.); Madagascar. 'Ambongo. Manongarivo. Ravins dans la latérite, Janvier 1904', *H. Perrier de la Bâthie 7839* (P00466478!, P00466479!, P00466480!, syn.).

Chromosome number: n = 29 (Manton 1959: 79).

Distribution: Angola, Annobon, Benin, Bioko, Burundi, Cameroon, Central African Republic, Chad, Congo, Coté d'Ivoire, DRC, Equato-

rial Guinea, Ghana, Guinea, Kenya, Liberia, Malawi, Mozambique, Nigeria, Príncipe, Rwanda, São Tomé, Senegal, Seychelles, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe.

**Pellaea dura** *(Willd.) Hook*., Species filicum 2,7/8: 139, pl. 113A (Jan.–Sep. 1858), var. **dura**.

*Pteris dura* Willd., Species plantarum, edn 4, 5,1: 376 (25–27 Jun. 1810).
Type: "à terre dans les pouzzolanes rouges arides— des Piton rond et rouge à Bourbon", *J.B.G.M. Bory de St.-Vincent s.n.* (B20 0130210!, holo.; P00466496!, iso.).

*Allosorus durus* (Willd.) C.Presl, Tentamen pteridographiae: 153 (Oct. 1836).

*Cheilanthes dura* (Willd.) T.Moore, Index filicum 2,4: 44 (1857k).

*Pteridella dura* (Willd.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 14 (Aug.–Sep. 1879).

*Pteris burkeana* Hook., Species filicum 2,7/8: 213, 214 (Jan.–Sep. 1858).
Type: 'S. Africa, Macalisberg', *J. Burke s.n*. (K000435674!, holo.).

*Pellaea burkeana* (Hook.) Baker in Synopsis filicum 4: 153 (22 Jan. 1867b).

*Pellaeopsis burkeana* (Hook.) J.Sm., Historia filicum: 290 (Oct.–Dec. 1875).

*Pellaea dura* (Willd.) Hook. var. *gigantea* Bonap. in Notes Ptéridologiques 14: 298 (23 Nov. 1923b).
Type: 'Congo belge. Tukolu. Route d'Arebi à Moto. Altitude de 1 200 mètres. Sommet de rochers granitiques, un peu de terre reposant sur le rocher. Juillet 1921', *J. Claessens 1107* (P00466494, holo.).

*Pellaea dura* (Willd.) Hook. var. *pilosa* Bonap. in Notes Ptéridologiques 14: 299 (23 Nov. 1923b).
Type: 'Congo belge. Montagnes Wallose. 22 juillet 1917', *Lacombe 14* (P00466495!, holo.).

*Pellaea doniana* sensu Peter in Feddes Repertorium, Beiheft 40,1: 36 (1929), p.p. quoad saltem 11719, non (J.Sm.) Hook. (1858: 137).

*Pellaea schweinfurthii* sensu Schippers in Fern Gazette 14,5: 181 (1993), p.p.

Distribution: Angola, Burundi, Cameroon, Central African Republic, Equatorial Guinea, Ethiopia, Gabon, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Réunion, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pellaea dura** *(Willd.) Hook*. var. **holstii** *(Hieron.) Schelpe* in Contributions from the Bolus Herbarium 1: 79 (17 Dec. 1969b).

*Pellaea holstii* (Hieron.) Diels in Die natürlichen Pflanzenfamilien 1,4: 267 (Oct. 1899b).

*Pteridella holstii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 78 (Jun. 1895).
Type: Tanzania. 'Matai', *C.H.E.W. Holst 2543* (B20 00928721, lecto.), designated by Schelpe (1969b: 79); (K000435554!, P00466493, isolecto.); 'Usb., Nyika kitvo', *C.H.E.W. Holst 607* (B20 0092871!, syn.).

Distribution: Central African Republic, Equatorial Guinea, Gabon, Tanzania, Zambia.

**Pellaea dura** *(Willd.) Hook*. var. **latipinna** *Schelpe* in Contributions from the Bolus Herbarium 1: 79 (17 Dec. 1969b).
Type: 'Nigeria, Jebba, Nupe country', *C. Barter 1443* (K, holo.).

Distribution: Nigeria.

**Pellaea dura** *(Willd.) Hook*. var. **schweinfurthii** *(Hieron.) Verdc*. in Flora of tropical East Africa, Adiantaceae: 15 (2002a).

*Pteridella schweinfurthii* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 78, 79 (Jun. 1895).
Type: Sudan. "am Baginse im Nyamnyam-Lande Central Africa. Mai 1870", *G.A. Schweinfurth 3862* (B20 0092896!, B20 0092873!, syn.); Tanzania. "Usambara", *C.H.E.W. Holst 71* (B20 0092895!, syn.); "Kilangwi Kuppe. Juli '92", *C.H.E.W. Holst 3747a* (B20 0092894!, syn.); "Ostafrika: Merue. 14 Aug.", *Fischer 684* (B20 0092893!, lecto.), designated by Pichi Sermolli (a note on sheet dated 1969).

*Pellaea schweinfurthii* (Hieron.) Hieron. ex Diels in Die natürlichen Pflanzenfamilien 1,4: 267 (Oct. 1899b).

*Pellaea maxima* Bonap. in Notes Ptéridologiques 14: 226, 227 (23 Nov. 1923a).
Type: 'Gabon, Pays Itsogho. Près de Moubenu sur la Didanzi, sous-affluent de la Ngounyé. Clairière sur sol granitique, 14 Nov. 1916', *G. le Testu 2197* (P00466492!, holo.; P00466490!, P00466491!, plus 2 unnumbered sheets).

*Pellaea holstii* sensu Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 92, t. 14, fig. 4 (1953d), non (Hieron.) Diels (1899b: 267).

*Pellaea dura* (Willd.) Hook. var. *holstii* sensu Schelpe in Contributions from the Bolus Herbarium 1: 79 (17 Dec. 1969b), p.p., non *P. holstii* (Hieron.) Diels (1899b: 267).

Distribution: Burundi, Cameroon, Central African Republic, DRC, Ethiopia, Gabon, Kenya, Nigeria, Sudan, Tanzania, Uganda.

**Pellaea leucomelas** *(Mett. ex Kuhn) Baker* in Synopsis filicum, edn 2: 478 (Oct. 1874a).

*Pteris leucomelas* Mett. ex Kuhn, Filices africanae: 83 (Oct. 1868).
Type: Africa australis, *J.C. Breutel s.n*. (LZ†; B!, icon.).

*Pellaea calomelanos* (Sw.) Link var. *leucomelas* (Mett. ex Kuhn) J.E.Burrows, Southern African ferns and fern allies: 177, pl. 28.2, ill. 42 (1990).

*Pteridella leucomelas* (Mett. ex Kuhn) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 14 (Aug.–Sep. 1879).

Distribution: South Africa.

**Pellaea longipilosa** *Bonap*. in Notes Ptéridologiques 15: 33, 34 (25 Feb. 1924).
Type: "Soudan, Anglo-Égyptien, Rejat, 5 Août 1920", *H.L. Schantz 944* (P00477748, holo.; P00477747!, US1090078, iso.).

Distribution: Burundi, DRC, Ethiopia, Kenya, Malawi, Mozambique, Somalia, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Pellaea pectiniformis** *Baker* in Synopsis filicum, edn 2: 147 (Oct. 1874a), nom. nov. for *Pteris pectiniformis* Godet ex Kuhn (1868: 87), non Goldm. (1843: 458).

*Pteridella pectiniformis* (Baker) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 14 (Aug.–Sep. 1879).

*Allosorus pectiniformis* (Baker) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*Pteris pectiniformis* Godet ex Kuhn, Filices africanae: 87 (Oct. 1868), non Goldm. (1843: 458), nom. illeg. [McNeill *et al.* (2006) Art. 53.1].
Type: Angola, Serra de Oiahoia, *F.M.J. Welwitsch 191* (K, lecto.), designated by Anthony (1984: 247); (BM, LISU, isolecto.).

*Pellaea goudotii* Kunze ex C.Chr., Index filicum: 480 (1 Apr. 1906), nom. nov.
Type as for *Pellaea pectiniformis* Baker.

*Pellaea goudotii* Kunze ex C.Chr. var. *major* Sim, The ferns of South Africa, edn 2: 201, pl. 98, fig. 1 (1915).
Type: 'Ironmask Hill, Mazoe, Rhodesia, 5000 ft.', *E. Eyles s.n*. (missing).

*Pellaea goudotii* Kunze ex C.Chr. var. *bipinnata* Bonap. in Notes Ptéridologiques 5: 61, 62 (1917d).
Type: Madagascar. 'Zazafotsy, 800 mètres d'altitude; rocailles dénudées; gneiss, Mai 1912', *H. Perrier de la Bâthie 7951* (P00466489!, holo.; P00466488!, iso.).

*Pellaea goudotii* Kunze ex C.Chr. var. *compacta* Bonap. in Notes Ptéridologiques 5: 62 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique du Centre. Environs d'Ambositra. 1 700 mètres d'altitude. Rocailles sèches. Quartzites. Mai 1912,' *H. Perrier de la Bâthie 7923* (P00466487!, holo.; P00466486!, iso.).

*Pellaea goudotii* sensu Peter in Feddes Repertorium, Beiheft 40,1: 37 (1929), p.p., non Kunze ex C.Chr. (1906: 480).

Distribution: Angola, Burundi, Comoro Isl., DRC, Gabon, Madagascar, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe.

**Pellaea prolifera** *Schelpe* in Bulletin du Jardin Botanique National de Belgique 38,2: 193 fig. 1 (30 Jun. 1968a).
Type: 'Congo-Kinshasa, Kamande, vallée de la Lula, sur parois rocheuses, nov. 1933', *De Witte 1199* (BR, holo.).

Distribution: Congo.

**Pellaea pteroides** *(L.) Prantl* in Botanische Jahrbücher 3: 420 (1882).

*Adiantum pteroides* L., Systema naturae, edn 12, 2 (Regnum vegetabile): 695 (12–31 Oct. 1767a).
Provenance: 'Habitat ad Cap. b. spei'. Lectotype: Herb. Linn. No. 1252.14 (LINN), designated by Anthony (1984: 227).

*Cheilanthes pteroides* (L.) Sw., Synopsis filicum: 128, 129 (Mar.–Apr. 1806b).

*Cassebeera pteroides* (L.) C.Presl, Tentamen pteridographiae: 155 (Oct. 1836).

*Adiantopsis pteroides* (L.) T.Moore, Index filicum 2,2: 18 (1857j).

*Choristosoria pteroides* (L.) Mett. ex Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 13 (Aug.–Sep. 1879).

*Pteris orbiculata* Houtt., Natuurlijke historie 2,14: 108 (20 Oct. 1783).
Type: Cape, M. Houttuyn, Natuurlijke historie 2,14: 108, pl. 96, fig. 3 (1783), icon.

Distribution: South Africa.

**Pellaea rufa** *A.F.Tryon* in Annals of the Missouri Botanical Garden 42,1: 101, t. 7 (1955).
Type: 'Laingsburg, Ngaap Kop, 6 Nov. 1944', *R.H. Compton 16402* (US, holo.; NBG0080793-0!, iso.).

Distribution: South Africa.

See Plate 8A.

**Pellaea schippersii** *Verdc*. in Flora of tropical East Africa, Adiantaceae: 12 (2002a).
Type: 'Tanzania, NW Kilimanjaro, road from Simba Farm to the Saw Mills, 18 June 1985', *R.R. Schippers 895* (WAG, holo.; WAG, iso.).

Distribution: Kenya, Tanzania.

**Pellaea striata** *(Desv.) C.Chr*. in Dansk Botanisk Arkiv 7: 117, pl. 44, figs 12–15 (Oct. 1932b).

*Pteris striata* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 300 (Jul. 1827).
Type: 'Crescit in insula Mascareigne', *sine coll. s.n*. (P00466472!, holo.).

*Pellaea sulcata* Bonap. in Notes Ptéridologiques 5: 63, 64 (10 Dec. 1917d).
Type: Madagascar. 'Milonja. Mont Ambohibenga. Bois rocailleux. Granit, Mai 1904', *H. Perrier de la Bâthie 7844* (P00466475!, P00466476!, syn.); Madagascar. 'Bassin de Mangoky. Rivière Menamaty. Bois secs. Grès triasiques, Septembre 1911', *H. Perrier de la Bâthie 7887* (P00466473!, P00466474!, syn.).

Distribution: Madagascar, Réunion.

**Pellaea tomentosa** *Bonap*. in Notes Ptéridologiques 5: 64, 65 (10 Dec. 1917d).
Type: Madagascar. 'Région floristique du Centre. Province d'Ambositra. Environs d'Ambatofinandrano, 1 400 mètres d'altitude. Rocailles sèches, cipolins, Juin 1912', *H. Perrier de la Bâthie 7891* (P00466470!, P00466471, holo.; P00466469!, plus 1 unnumberd sheet).

Distribution: Madagascar.

**Pellaea tripinnata** *Baker* in Journal of the Linnean Society, Botany 25: 350 (1889a), non *P. tripinnata* Bonap. (1920d: 161).
Type: Madagascar. 'East Androna', *R. Baron 5674* (K000435557!, holo.).

*Allosorus tripinnatus* (Baker) Kuntze, Revisio generum plantarum 2: 806 (5 Nov. 1891).

*P. ovalifolia* Bonap. in Notes Ptéridologiques 5: 62, 63 (10 Dec. 1917d).
Type: Madagascar. 'Forêt 'Analamaitso, 900 mètres d'altitude. Bois rocailleux, Août 1907', *H. Perrier de la Bâthie 7848* (P00466467!, P00466468!, holo.; P00466465!, P00466466!, iso.).

Distribution: Madagascar.

### TRACHYPTERIS

**Trachypteris** *André ex H.Christ* in Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die Gesammten Naturwissenschaften 36,1: 150 (1899c). Type: *Trachypteris aureo-nitens* (Hook.) André ex H.Christ; *Acrostichum aureo-nitens* Hook., now *Trachypteris pinnata* (Hook.f.) C.Chr. (*Hemionitis pinnata* Hook.f.).

**Trachypteris drakeana** *Jeanp. ex C.Chr*. in Notes Ptéridologiques 16: 194, 195 (14 Apr. 1925b).
Type: 'Madagascar. Région floristique de l'Ouest. Firingalava entre Mevatanana et Andriba. Endroits ombragès et humides. Fèvrier 1898', *H. Perrier de la Bâthie 502* (P00411662!, iso.).

Distribution: Madagascar.

## TECTARIACEAE

**Tectariaceae** *Panigrahi* in Journal of the Orissa Botanical Society 8,1: 41 (1987). Type: *Tectaria* Cav.

*Aspidiaceae* Burnett, Outlines of botany, including a general history of the vegetable kingdom: 324, 1156 (Feb. 1835), nom. illeg. [McNeill *et al.* (2006) 18.3]. Type: *As-*

*pidium* Sw., nom. illeg. [McNeill *et al.* (2006) Art. 52.1]. Note: generally cited as Mett. ex A.B.Frank in Synopsis der Pflanzenkunde, edn 2, 3: 1469 (1877), nom. illeg. [McNeill *et al.* (2006) 18.3].

*Dennstaedtiaceae* Pic.Serm. subfam. *Tectarioideae* Holttum in Botanical Journal of the Linnean Society 53,350: 152 (1947), nom. nud.

*Dryopteridaceae* Ching subfam. *Tectarioideae* Holttum ex Nayar in Taxon 19,2: 235 (Apr. 1970). Type: *Tectaria* Cav.

## ARTHROPTERIS

**Arthropteris** *J.Sm. ex Hook.f.*, Flora novae-zelandiae 2,5: 43, pl. 82 (27 Apr. 1854). Type: *Arthropteris tenella* (G.Forst.) J.Sm. ex Hook.f.; *Polypodium tenellum* G.Forst.

**Arthropteris boutoniana** *(Hook.) Pic.Serm*. in Webbia 21,1: 508 (1966).

*Aspidium boutonianum* Hook. in Hooker's Icones Plantarum, n.s.: 10, pl. 931 (1854a).
Type: 'Eastern summit of the "Montagne longue", Mauritius'; "*Polypodium* sp. Voilà en fruttification l'espèce de *Polypodium* dont je vous ai dejà fait parvenir les echantillons; j'aime a croire que vous la ferez connaitre au monde savant, car elle est probablement nouvelle—Elle croit sur le sommet oriental de la Montagne longue, prend racine entre les roches & grimpe sur les arbes", *L. Bouton s.n*. (K000435681, holo.).

*Arthropteris orientalis* (J.F.Gmel.) Posth. var. *boutoniana* (Hook.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 33 (Feb. 1932a).

*Dryopteris trichophlebia* C.Chr. in Notes Ptéridologiques 16: 180, 181, pl. VI, fig. b (14 Apr. 1825b).
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analmazaotra. 800 mètres d'altitude. Décembre', *H. Perrier de la Bâthie 6088* (P?, holo.).

Distribution: Madagascar, Mauritius.

**Arthropteris camerooniensis** *Alston* in Journal of Botany, British and Foreign 77,922: 287 (1939b), nom. nov. for *Nephrodium punctulatum* Baker, non Desv. (1827: 253).

*A. orientalis* (J.F.Gmel.) Posth. var. *punctulata* (Baker) F.Ballard in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1940: 30 (12 Mar. 1940).

*Nephrodium punctulatum* auct. in Hook. & Baker, Synopsis filicum 7: 261 (4 Oct. 1867c), non Desv. (1827: 253).

Distribution: Bioko, Cameroon, Côte d'Ivoire, Equatorial Guinea.

**Arthropteris monocarpa** *(Cordem.) C.Chr*. in Catalogue des plantes de Madagascar. Pteridophyta: 32 (Feb. 1932a).

*Nephrodium monocarpum* Cordem., Flore de l'Ile de la Réunion: 74 (1895).
Type: A specimen labelled "*Aspidium monosorum* Desv. ined. crescit in insula Borboniae", *sine coll. s.n*. (P00483340!, neo.), designated by Pichi Sermolli (1978b: 130).

*A. anniana* Lawalrée in Bulletin du Jardin Botanique National de Belgique 60,3/4: 319 (31 Dec. 1990).
Type: 'Rwanda, Butare-Bukavu', *Antun-Gupffert 933* (BR, holo.; K000435691, MO, P00483524!, iso.).

*A. antun-gupffertiae* Lawalrée in Bulletin du Jardin Botanique National de Belgique 60,3/4: 322 (31 Dec. 1990).
Type: 'Zaïre, Kalima (Kabiata), alt. 600(–1000 m)', *Antun-Gupffert 91* (BR, holo.; K000435689, K000435690, MO, P00477781!, WAG, iso.).

*A. charletiana* Lawalrée in Bulletin du Jardin Botanique National de Belgique 61,3/4: 356 (1991).
Type: Zaïre, District Forestier Central: Kalima, alt. 950 m, *Antun-Gupffert 79 bis* (BR, holo.).

*Dryopteris orientalis* sensu Sim, The ferns of South Africa, edn 2: 91, pl. 9 (1915), p.p., non (G.F.Gmel.) C.Chr. (1905: 281).

*N. albopunctatum* sensu Sim, The ferns of South Africa: 173, pl. XCV (1892), as '*albo-punctatum*'.

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Angola, Bioko, Burundi, Cameroon, Comoro Isl. (Anjouan, Grande Comore), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ethiopia, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Arthropteris orientalis** *(J.F.Gmel.) Posth*. in Recueil des travaux botaniques Néerlandais 21: 218 (1924).

*Polypodium orientale* J.F.Gmel., Systema naturae, edn 13, 2,2: 1312 (1791).
Type: 'Montibus Hadiensibus, ad Bolghose, mense Martii 1763' *P. Forsskål s.n.* (C, Herb. Forsskål no. 807, lecto.), designated by Pichi Sermolli (1978b: 123).

*Dryopteris orientalis* (J.F.Gmel.) C.Chr., Index filicum: 281 (18 Nov. 1905).

*P. pectinatum* Forssk., Flora aegyptico-arabica: CXXV, 185 (1 Oct. 1775), non L. (1753: 1085).
Type: no locality provided.

*Arthropteris pectinatum* (Forssk.) Kuhn, Die Flora von Kaiser Wilhelms Land: 10 (Oct. 1889a).

*Aspidium albopunctatum* Willd., Species plantarum, edn 4, 5,1: 242 (25–27 Jun. 1810), as *'albo-punctatum'*.
Type: "Habitat in Borbonia insela", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19772!, holo.; P00483343!, iso.).

*Nephrodium albopunctatum* (Bory ex Willd.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 255 (Jul. 1827), as *'albo-punctatum'*.

*N. variolarium* Desv. in Mémoires de la Société Linnéenne de Paris 6,2, 255 (Jul. 1827).
Type: 'Habitat in insula Mauritii et Mascareigne', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483341, lecto.), designated by Pichi Sermolli (1978b: 125).

*Aspidium thonningii* Schumach., Beskrivels af Guineeiske planter: 455 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 229, 230 (1829).
Type: 'Voxer ved Aquapim', 1786, *P.E. Isert s.n*. (C, holo.).

*N. trichophlebium* Baker in Journal of the Linnean Society, Botany 16: 201 (1877a).
Type: "Antananarivo Madagascar", *H. Gilpin 3/77* (K000435683, holo.).

*D. trichophlebia* (Baker) C.Chr., Index filicum: 298 (18 Nov. 1905).

*Arthropteris trichophlebia* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 33 (Feb. 1932a).

*N. subbiauritum* Hook., Species filicum 4,14: 85, 86 (Aug. 1862c).
Type: "île Bourbon", *sine coll. s.n*. (K, holo.).

*D. subbiaurita* (Hook.) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*D. orientalis* (J.F.Gmel.) C.Chr. var. *subbiauritum* (Hook.) Bonap. in Notes Ptéridologiques 4: 18 (19 May 1917a).

*Arthropteris orientalis* (J.F.Gmel.) Posth. var. *subbiaurita* (Hook.) Bonap. in Notes Ptéridologiques 16: 28 (14 Apr. 1925a).

*N. humblotii* Baker in Bulletin Mensuel de la Société Linnéenne de Paris 1: 534 (1885c).
Type: "*Nephrodium* n. sp. 16* 274", "Comoro Islands *L. Humblot*. Purchased August 1885", *L. Humblot 274* (K000435682, holo.; BM, P00212932!, P00212933!, P00212934!, iso.).

*D. humblotii* (Baker) C.Chr., Index filicum: 271 (18 Nov. 1905).

*Arthropteris orientalis* (J.F.Gmel.) Posth. var. *humblotii* (Baker) Pic.Serm. in Webbia 21,1: 515 (1966).

*N. wilsonii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 321 (Aug. 1891a).
Type: 'Uganda, Tropical Africa', probably nMengo near Lake Victoria, *C.T. Wilson 5/80* (K000435685, holo.).

*Aspidium wilsonii* (Baker) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 84 (Jun. 1895).

*D. wilsonii* (Baker) C.Chr., Index filicum: 301 (18 Nov. 1905), as '*wilsoni*'.

Distribution: Angola, Annobon, Bioko, Burundi, Cameroon, Central African Republic, Congo, Comoro Isl. (Mayotte), Coté d'Ivoire, DRC, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Nigeria, Príncipe, Réunion, Rwanda, São Tomé, Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

**Arthropteris palisotii** *(Desv.) Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 6 (1956a).

*Aspidium palisotii* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 320 (1811), as '*palisoti*'.
Type: 'Habitat in Owaria Africes', *A.M.F.J. Palisot de Beauvois s.n*. (P00483344!, holo.).

*Aspidium ramosum* P.Beauv., Flore d'Oware et de Bénin 2,16: 54, pl. 91, t. 1 (21 Feb. 1818).
Type: 'Royaume d'Oware, près le village de Buonopozo', *A.M.F.J. Palisot de Beauvois s.n*. (P, holo.; P00483345!, iso.).

*Nephrolepis ramosa* (P.Beauv.) T.Moore, Index filicum 2,9: 102 (1858b), p.p.

*Arthropteris ramosa* (P.Beauv.) Mett. in Reise der österreichischen Fregatte Novara um die Erde 4: 213 (1870).

*Adiantum sublobatum* Schumach., Beskrivels af Guineeiske planter: 461 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 235 (1829).
Type: 'Aquapim', *P. Thonning 308* (C, holo.).

*Arthropteris obliterata* auct., non (R.Br.) J.Sm. (1857a: 62).

Chromosome number: n = 41 (Manton 1959: 79).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Comoro Isl. (Anjouan, Mayotte), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Nigeria, Senegal, São Tomé, Tanzania, Uganda.

**Arthropteris parallela** *(Baker) C.Chr*. in Catalogue des plantes de Madagascar. Pteridophyta: 33 (Feb. 1932a).

*Nephrodium parallelum* Baker in Journal of the Linnean Society, Botany 15: 417 (1876b).
Type: 'Madagascar, Antananarivo', *W. Pool s.n*. (K?, holo.).

*Dryopteris parallela* (C.Chr.) C.Chr., Index filicum: 282 (18 Nov. 1905).

Distribution: Madagascar.

## HETEROGONIUM

**Heterogonium** *C.Presl*, Epimeliae botanicae: 142, 143 (1851), emend. Holttum (1949: 155–166).
Type: *Heterogonium aspidioides* C.Presl.

*Tectaria* sensu C.Chr., Index filicum. Supplementum tertium pro annis 1917–1933: 176 (Oct. 1934), p.p.

*Ctenitis* sensu Copel., Genera filicum: 123 (1947), p.p.

**Heterogonium sieberianum** *(Kaulf. ex Spreng.) Holttum* in Kew Bulletin 38,1: 115 (1983).

*Polypodium sieberianum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 56 (Jan. 1827).
Type: 'Ins. Mascaren', *F.W. Sieber 37* (LE, holo.; K000351160, P00482791, P00483162, P00483163, iso.).

*Polypodium cyatheifolium* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 239 (Jul. 1827), as '*cyatheaefolium*'.
Type: 'Habitat in insula Mauritii', *sine coll. s.n*. (P-JU, holo.).

*Phegopteris cyatheifolium* (Desv.) Mett. ex Kuhn, Filices africanae: 122 (Oct. 1868).

*H. cyatheifolium* (Desv.) Tardieu in Notulae Systematicae (Paris) 15,1: 89, pl. 1, figs 1–4 (1955c), comb. invalid. sine basionym.

*H. cyatheifolium* (Desv.) Tardieu in American Fern Journal 48,1: 33 (17 Apr. 1958a).

Distribution: Mauritius.

## TECTARIA

**Tectaria** *Cav*. in Anales de historia natural 1,2: 115 (1799). Type: *Tectaria trifoliata* (L.) Cav.; *Polypodium trifoliatum* L.

*Aspidium* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 4, 29 (1801). Type: *Aspidium trifoliatum* (L.) Sw.; *Polypodium trifolatum* L. (now *Tectaria trifoliata* (L.) Cav.).

*Stenosemia* C.Presl, Tentamen pteridographiae: 237, pl. 10, fig. 24 (Oct. 1836). Type: *Stenosemia aurita* (Sw.) C.Presl (*Acrostichum auritum* Sw.).

*Pseudotectaria* Tardieu in Notulae Systematicae (Paris) 15,1: 87, t. 6 (1955c). Type: *Pseudotectaria decaryana* (C.Chr.) Tardieu (*Tectaria decaryana* C.Chr.).

*Pseudotectaria* Tardieu emend. Holttum in Kew Bulletin 45,2: 259 (1990). Type: *Pseudotectaria decaryana* (C.Chr.) Tardieu; *Tectaria decaryana* C.Chr.

*Pseudotectaria* Tardieu emend. Holttum sect. *Isopinnatae* Holttum in Kew Bulletin 45,2: 261 (1990). Type: *Pseudotectaria fibrillosa* (Baker) Holttum; *Nephrodium fibrillosum* Baker.

**Tectaria angelicifolia** *(Schumach.) Copel*. in The Philippine Journal of Science 2: 410 (1907).

*Polypodium angelicifolium* Schumach., Beskrivels af Guineeiske planter: 454 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 228 (1829), as '*angelicaefolium*'.
Type: Guinea, 'Voxer ved Aquapim', *P. Thonning 304* (C, holo.).

*Phegopteris angelicifolia* (Schumach.) Mett. ex Kuhn, Filices africanae: 121 (Oct. 1868), as '*angelicaefolium*'.

*Aspidium angelicifolium* (Schumach.) C.Chr., Index filicum: 64 (5 May 1905).

*A. nigrescens* Mett. ex Kuhn, Filices africanae: 137, 138 (Oct. 1868).
Type: 'Ins. Fernando Po', *C. Barter 142* (K000351145!, K000351146!, K000351147!, syn.); 'Ad flumen Gabon', *G. Mann s.n*. (K?, syn.).

*T. nigrescens* (Mett. ex Kuhn) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 182 (Oct. 1934).

*Nephrodium nigrescens* (Mett. ex Kuhn) Baker in Synopsis filicum, edn 2: 504 (Oct. 1874a), p.p.

*Polypodium tenerifrons* Hook., Species filicum 5,18/20: 104, 105 (Jun. 1864b), p.p.
Type: 'Moulmeine, among limestone rocks', *C.S.P. Parish 92* (K?, syn.); 'Gaboon River, W. trop. Africa', *G. Mann s.n.* (K000351154!, K000351155!, syn.).

*A. tenerifrons* (Hook.) Diels in Die natürlichen Pflanzenfamilien 1,4: 186 (Aug. 1899b).

*T. nicklesii* Tardieu in Notulae Systematicae (Paris) 13,3: 167 (1948a).
Type: 'Région de Dolisie, 10 mai 1946', *M. Nicklès s.n.* (P00483155, iso.).

*A. gaboonense* Kuhn, Filices africanae: 133 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 52.1].
Type: As for *Polypodium tenerifrons* Hook., Species filicum 5,18/20: 104 (1864b).

Chromosome number: n = ± 160 (Manton 1959: 81).

Distribution: Angola, Bioko, Cameroon, Central Africn Republic, Comoro Isl. (Anjouan), Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Nigeria, Príncipe, São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Tectaria arthrothrix** *(Hook.) J.P.Roux*, comb. nov.

*Polypodium arthrothrix* Hook., Species filicum 5,17: 14 (May 1864a).
Type: 'Madagascar', *W. Bojer s.n.* (K000351161!, lecto.), designated by Holttum (1990: 262).

*Dryopteris arthrothrix* (Hook.) C.Chr. in Dansk Botanisk Arkiv 7: 57, pl. 13, figs 1–3 (Oct. 1932b).

*Ctenitis arthrothrix* (Hook.) Tardieu in Fern Journal 48,1: 32 (17 Apr. 1958a).

*Pseudotectaria arthrothrix* (Hook.) Holttum in Kew Bulletin 45,2: 262 (1990).

*Polypodium tomentosum* Bory in Voyage aux Indes Orientales. Botanique 2,1: 31 (25 May 1833).
Type: 'l'île Maurice', *C.P. Bélanger s.n.* (not located).

*Phegopteris tomentosa* (Bory) Mett. ex Kuhn, Filices africanae: 123 (Oct. 1868).

Distribution: Madagascar.

**Tectaria barteri** *(J.Sm.) C.Chr.*, Index filicum. Supplementum tertium pro annis 1917–33: 177 (Oct. 1934).

*Aspidium barteri* J.Sm., Ferns: British & foreign: 286 (Jun.–Jul. 1866).
Type: 'Africa occidentalis tropica', *C. Barter s.n.* (BM, syn.); "Fernando Po", *G. Mann* [143] (BM, syn.).
Note: three Barter specimens (K000351148, K000351149 and B000351150) are present at Kew and may be syntypes.

*Nephrodium barteri* (J.Sm.) Baker in Synopsis filicum 7: 299 (4 Oct. 1867e).

*Lonchitis currorii* (Hook.) Mett. ex Kuhn var. *barteri* (J.Sm.) Bonap. in Notes Ptéridologiques 14: 230 (23 Nov. 1923a).

Chromosome number: n = ± 80 (Manton 1959: 81).

Distribution: Bioko, Equatorial Guinea.

**Tectaria biformis** *(Mett.) J.P.Roux*, comb. nov.

*Phegopteris biformis* Mett. ex Kuhn, Filices africanae: 121 (Oct. 1868).
Type: 'Ins. Mayotte Comorarum', *L.H. Boivin 2875* (P00212776, P00212777, P00212778, P00212779, lecto.), designated by Holttum (1990: 262); (B20 0052899!, K000351163!, isolecto.); 'Madagascaria', *J. Goudot s.n.* (B20 0052899!, P00483088, P00483089, syn.); 'Ins. Borboniae', *L.H. Boivin s.n.* (B20 0052899!, syn.).

*Polypodium biforme* (Mett. ex Kuhn) Baker in Synopsis filicum, edn 2: 505 (Oct. 1874a).

*Nephrodium biforme* (Mett. ex Kuhn) Diels in Die natürlichen Pflanzenfamilien 1,4: 178 (Aug. 1899b).

*Dryopteris biformis* (Mett. ex Kuhn) C.Chr. in Dansk Botanisk Arkiv 7: 57, pl. 13, figs 7–9 (Oct. 1932b).

*Ctenitis biformis* (Mett.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 331 (May 1958b), excl. syn. *Dryopteris warburii* C.Chr. (1932b: 58).

*Pseudotectaria biformis* (Mett. ex Kuhn) Holttum in Kew Bulletin 45,2: 262 (1990).

*Polypodium polyxiphion* Baker in Bulletin Mensuel de la Société Linnéenne de Paris 1: 534 (1885c).

Distribution: Comoro Isl. (Mayotte), Madagascar.

**Tectaria camerooniana** *(Hook.) Alston* in Journal of Botany, British and Foreign 77,922: 288 (1939b).

*Polypodium camerooniana* Hook., Species filicum 5,18/20: 104 (Jun. 1864b).
Type: 'Cameroon Mountains, W. trop. Africa, alt. 3000 feet', *G. Mann 1362* (K000351152!, K000351153!, holo.).

*Aspidium camerooniana* (Hook.) Mett. ex Kuhn, Filices africanae: 127 (Oct. 1868).

Distribution: Bioko, Cameroon, DRC, Equatorial Guinea.

**Tectaria crinigera** *(C.Chr.) C.Chr.* in Dansk Botanisk Arkiv 7: 66, pl. 18 (Oct. 1932b).

*Aspidium crinigerum* C.Chr. in Notes Ptéridologiques 16: 34, 35 (14 Apr. 1925a).
Type: Madagascar. 'Règion floristique de l'Etat. Bassin du Malitanana. Bois. Dans l'humus. 100 mètres d'altitude. Octobre 1911', *H. Perrier de la Bâthie 11543* (P00483145, holo.; P00483146, iso.).

*Pseudotectaria crinigera* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,1: 87, pl. 56, figs 1–4 (1955c).

Distribution: Madagascar.

**Tectaria decaryana** *C.Chr.* in Dansk Botanisk Arkiv 7: 66, pl. 19 (Oct. 1932b).
Type: Madagascar. 'Befotaka, province of Farafangana, in damp forest, 13 Aug. 1926', *R. Decary 4722* (P00483147, holo.).

*Pseudotectaria decaryana* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,1: 87, pl. 6, figs 5–8 (1955c).

Distribution: Madagascar.

**Tectaria fernandensis** *(Baker) C.Chr.*, Index filicum. Supplementum tertium pro annis 1917–33: 179 (Oct. 1934).

*Polypodium fernandense* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 462 (1891a).
Type: "Fernando Po, brook stony ground", *A. Henderson 461* (K000351151!, holo.).

Chromosome number: n = ± 40 (Manton 1959: 81).

Distribution: Annobon, Bioko, DRC, Equatorial Guinea, Liberia, Rwanda.

**Tectaria fibrillosa** *(Baker) J.P.Roux*, comb. nov.

*Nephrodium fibrillosum* Baker in Journal of the Linnean Society, Botany 15: 418 (1876b).
Type: Antananarivo, *W. Pool s.n.* (K000351164!, holo.).

*Aspidium fibrillosum* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 65 (Aug.–Sep. 1879).

*Pseudotectaria fibrillosa* (Baker) Holttum in Kew Bulletin 45,2: 261 (1990).

*Dryopteris poolii* C.Chr., Index filicum: 285 (18 Nov. 1905), nom. nov., non *D. fibrillosa* (Baker) C.Chr. (1905: 264).

*Ctenitis poolii* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 330 (May 1958b).

*D. blepharorachis* C.Chr. in Arkiv för Botanik 14,19: 3, 4, pl. 1, figs 1, 2 (24 Mar. 1916).
Type: 'Madagascaria, Moramanga, 12.10.1912', *K.R. Afzelius & B.T. Palm 453* (S, holo.).

Distribution: Madagascar.

**Tectaria gemmifera** *(Fée) Alston* in Journal of Botany, British and Foreign 77,922: 288 (1939b).

*Sagenia gemmifera* Fée, Cinquième mémoires sur la famille des fougères: 313 (1852).
Type: 'Habitat in insulâ Madagascariensi', *A. Pervillié s.n*. (missing).

*Aspidium coadunatum* Kaulf. var. *gemmiferum* (Fée) Mett. ex Kuhn, Filices africanae: 128 (Oct. 1868).

*T. coadunata* (Wall. ex Hook. & Grev.) C.Chr. var. *gemmifera* (Fée) C.Chr. in Dansk Botanisk Arkiv 7: 67 (Oct. 1932b).

*A. gemmiferum* (Fée) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 237 (1941a).

*A. decaryanum* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 31 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Nephrodium cicutarium* sensu Sim, The ferns of South Africa: 187, pl. CXLVIII (1892).

*A. cicutarium* sensu Sim, The ferns of South Africa, edn 2: 113, pl. 25 (1915).

Distribution: Angola, Burundi, Comoro Isl. (Anjouan, Mayotte, Mohély), DRC, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Rwanda, Seychelles, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Tectaria humbertiana** *Tardieu* in Naturaliste Malgache 3,2: 115, fig. 1, pl. 1 (1951d).
Type: Madagascar, 'forêts d'Andapa, basin de la Lokoho', *H. Humbert 21961* (P, holo.).

Distribution: Madagascar.

**Tectaria lawrenceana** *(T.Moore) C.Chr*. in Dansk Botanisk Arkiv 7: 66, pl. 17 (Oct. 1932b).

*Sagenia lawrenceana* T.Moore in The Gardeners' Chronicle and Agricultural Gazette 15: 9 (1881).
Type: 'Madagascar, 3000 ft.', *H. Humblot s.n*. (K000351157, K000351158, K000351159, holo.).

*Aspidium lawrenceanum* (T.Moore) Diels in Die natürlichen Pflanzenfamilien 1,4: 185 (Aug. 1899b).

Distribution: Madagascar.

**Tectaria macrodonta** *(Fée) C.Chr.*, Index filicum. Supplementum tertium po annis 1917–33: 181 (Oct. 1934).

*Sagenia macrodonta* Fée, Cinquième mémoires sur la famille des fougères: 313, t. 24A, fig. 1 (1852).
Type: As for *Aspidium coadunatum* Wall.

*Aspidium coadunatum* Wall., A numerical list of dried specimens: no. 377 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3], non Kaulf. (1824: 239).
Type: 'Nepalia, 1820', *N. Wallich 377* (K, holo.).

*A. coadunatum* Wall. ex Hook. & Grev., Icones filicum 2,11: pl. 202 (1831b), nom. superfl., non Kaulf. (1824: 239).

*S. coadunata* Wall. ex J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 184 (1842a), as '*coadunatum*', nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*A. cicutarium* (L.) Sw. subsp. *coadunatum* (Wall.) Bonap. in Bulletin du Jardin Botanique de l'État à Bruxelles 4: 33 (1914), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*A. cicutarium* (L.) Sw. var. *coadunatum* (Wall.) Bonap. in Notes Ptéridologiques 1: 76 (14 Jul. 1915b), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*T. coadunata* (Wall. ex Hook. & Grev.) Copel. in Contributions from the United States National Herbarium 26,6: 331 (1931), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)].

Distribution: Kenya, Tanzania, Uganda, also in SW China, NE India, Thailand and Malaysia.

Notes: Smith (1842a: 184) based *Sagenia coadunatum* on Wallich's *Aspidium coadunatum*, which is a nomen nudum. Smith merely lists this species, and five others under *Sagenia*, not describing nor providing any diagnostic features for any of the six species listed, rendering this combination invalid. This appears to have been overlooked by many authors who all based new combinations on the invalid basionym *Sagenia coadunata* Wall. ex J.Sm.

**Tectaria madagascarica** *Tardieu* in Notulae Systematicae (Paris) 15,2: 180, pl. 1, figs 1–6 (Apr. 1956d).
Type: Madagascar. 'Haute vallée de Manampanihy', *H. Humbert 13993* (P00483127, P00483128, holo.; P00477816, P00477817, P00483129, P00483130, iso.).

Distribution: Madagascar.

**Tectaria magnifica** *(Bonap.) C.Chr*. in Dansk Botanisk Arkiv 7: 67, pl. 20, 21, figs 1, 2 (Oct. 1932b).

*Aspidium magnificum* Bonap. in Notes Ptéridologiques 16: 183–185 (14 Apr. 1925b).
Type: 'Région floristique du Sambirano. Massif du Manongarivo. Altitude de 500 mètres. Bois humide; syénite. Mai 1919', *H. Perrier de la Bâthie 7629* (P00483134, syn.); 'Région floristique du Sambirano. Massif du Manongarivo. Versant du Sambirano. Rocailles humides et très ombragées, gneiss. Avril 1909', *H. Perrier de la Bâthie 7630* (P00483131, P00483132, P00483133, P00477885, syn.); 'Région floristique du Centre Forêt d'Ankaizina. Rocailles humides, gneiss. Octobre 1908', *H. Perrier de la Bâthie 7645* (P00483135, P00483136, P00483137, P00483138, P00483139, syn.); 'Madagascar, Mt Tsaratanana', *H. Perrier de la Bâthie 15634* (P00483140, P00483141, P00483156, syn.).

*A. rotundilobatum* Bonap. in Notes Ptéridologiques 16: 185, 186 (1925b).
Type: 'Règions floristiques de l'Est et du Centre. Forêt d'Analazaotra. 800 mètres d'altitude. Dècembre', *H. Perrier de la Bâthie 6092* (P00483143, P00483144, holo.).

*T. rotundilobata* (Bonap.) C.Chr. in Dansk Botanisk Arkiv 7: 67, pl. 21, figs 3–7 (Oct. 1932b).

Distribution: Cameroon, Madagascar.

**Tectaria pica** *(L.f.) C.Chr*. in Dansk Botanisk Arkiv 7: 65 (Oct. 1932b).

*Polypodium pica* L.f., Supplementum plantarum: 446 (Apr. 1782).
Type: 'Habitat in insula Madagascar', *P. Sonnerat per A. Thouin s.n*. (not located).

*Aspidium pica* (L.f.) Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 319 (1811).

*Nephrodium pica* (L.f.) Baker in Synopsis filicum 7: 298 (4 Oct. 1867e).

*Bathmium ebenum* Fée, Cinquième mémoires sur la famille des fougères: 288 (1852).
Type: 'Habitat in insulâ Madagascariensi (Nos-Beh), nec non in insulâ Borboniâ', *sine coll. s.n*. (not located).

*A. trifoliatum* sensu Bojer, Hortus mauritianus: 392 (1837), non (L.) Sw. (1801: 30).

Distribution: Madagascar, Mauritius, Réunion.

**Tectaria pleiotoma** *(Baker) C.Chr*. in Dansk Botanisk Arkiv 7: 65 (Oct. 1932b).

*Nephrodium pleiotomum* Baker in The Transactions of the Royal Irish Academy 25: 515, pl. XXXIB (1875c).
Type: 'Seychelles', *E.P. Wright s.n*. (?K, syn.); 'Madagascar', *L.H. Boivin s.n*. (?K, syn.).

*Aspidium pleiotomum* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 66 (Aug.–Sep. 1879).

Distribution: Masdagascar, Seychelles.

**Tectaria puberula** *(Desv.) C.Chr*. in Dansk Botanisk Arkiv 7: 67 (Oct. 1932b).

*Aspidium puberulum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 245 (Jul. 1827), non Gaudich. (1828: 342), nec Fée (1866a: 40), nom. nov. for *Polypodium triphyllum* Desv. (1811: 315), non Jacquin (1788: 284).

*Polypodium triphyllum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 315 (1811).
Type: "Ile Bourbon. Croît dans les lieux très humides près des rochers", *sine coll. 356* (P00483142, holo.).

*Phegopteris triphylla* (Desv.) Kuhn, Filices africanae: 124 (Oct. 1868).

*Polypodium reticulatum* Bojer, Hortus mauritianus: 419 (1837).
Type: 'Ile Maurice', *W. Bojer s.n*. (not located).

*Polypodium subtriphyllum* Hook. & Arn., The botany of Captain Beechey's Voyage 6: 256, pl. 50 (Jul. 1838).
Type: 'Macao', *G.H. Vachell s.n*. (K, holo.).

*Nephrodium subtriphyllum* (Hook. & Arn.) Baker in Synopsis filicum 7: 296, 297 (4 Oct. 1867e).

Distribution: Comoro Isl. (Anjouan, Mayotte), Kenya, Madagascar, Mauritius, Pemba, Réunion, Tanzania.

**Tectaria torrisiana** *Shäffer-Fehre* in Flora of tropical East Africa, Dryopteridaceae: 7 (2007).
Type: 'Tanzania, Morogoro District: N Uluguru Mts, Mkungwe Hill', *R.B. Faden 70/366* (K, holo.).

Distribution: Tanzania.

**Tectaria warburii** *(C.Chr.) J.P.Roux*, comb. nov.

*Dryopteris warburii* C.Chr. in Dansk Botanisk Arkiv 7: 58, pl. 14 (Oct. 1932b).
Type: 'Near Tananarive', 19 July 1900, *W. Warbur s.n*. (K000351165!, holo.).

*Ctenitis warburii* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 15,1: 89 (1955c).

*Pseudotectaria warburii* (C.Chr.) Holttum in Kew Bulletin 45,2: 262 (1990).

Distribution: Madagascar.

**Tectaria waterlotii** *(Tardieu) J.P.Roux*, comb. nov.

*Stenosemia waterlotii* Tardieu in Notulae Systematicae (Paris) 14,3: 209, 210 (Nov. 1951e).
Type: 'Sambirano: Ambilobe', *Waterlot 321* (P, holo.).
Note: three specimens of *Waterlot 391* (P00483148, holo.; P00483149, P00483150, iso.) are present in the Paris Herbarium and are indicated as being the types of the species, but this number does not conform to that provided in the protologue.

Distribution: Madagascar.

## TRIPLOPHYLLUM

**Triplophyllum** *Holttum* in Kew Bulletin 41,2: 239 (1986). Type: *Triplophyllum potensum* (Sw.) Holttum; *Aspidium protensum* Sw.

*Dryopteris* Adans. subgen. *Ctenitis*, group of *D. protensa* (Sw.) C.Chr. in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 6,1: 91 (1920a).

**Triplophyllum attenuatum** *(Pic.Serm.) Pic.Serm*. in Webbia 45,1: 135 (1991).

*Ctenitis attenuata* Pic.Serm. in Webbia 39,1: 13, 14 (1985b).
Type: "Princes Island. W. Africa, Mann 1861", *G. Mann s.n.* (K000351122!, holo.).

Distribution: Príncipe.

**Triplophyllum batesii** *Holttum* in Kew Bulletin 41,2: 245 (1986).
Type: 'Cameroun, Efulen', *G.L. Bates 210* (K000351123!, holo.; BM, iso.).

Distribution: Cameroon.

**Triplophyllum buchholzii** *(Kuhn) Holttum* in Kew Bulletin 41,2: 251 (1986).

*Aspidium buchholzii* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 47 (Aug.–Sep. 1879).
Type: 'Africa occidentalis tropica, Mungo in regione Cameruniana, locis umbrosis silvarum', April 1874, *R.W. Buchholz s.n.* (B!, holo.; B! illustration.).

*Dryopteris buchholzii* (Kuhn) C.Chr., Index filicum: 256 (2 Oct. 1905).

*Tectaria buchholzii* (Kuhn) Copel. in The Philippine Journal of Science 38,1: 138 (Jan. 1929b), as '*buckholzii*'.

*Ctenitis buchholzii* (Kuhn) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 11 (1956a).

Distribution: Cameroon, Côte d'Ivoire, DRC, Gabon, Ghana, Liberia, Nigeria.

**Triplophyllum dimidiatum** *(Mett. ex Kuhn) Holttum* in Kew Bulletin 41,2: 251 (1986).

*Aspidium dimidiatum* Mett. ex Kuhn, Filices africanae: 131 (Oct. 1868).
Type: 'Africa occidentalis tropica. Sierra de Crystal', *G. Mann 1637* (K000351124!, B20 0054943!, fragm., iso.).

*Nephrodium dimidiatum* (Mett. ex Kuhn) Baker in Synopsis filicum, 2nd edn: 500 (Oct. 1874a).

*Dryopteris dimidiata* (Mett. ex Kuhn) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Ctenitis dimidiata* (Mett. ex Kuhn) Tardieu in Notulae Systematicae (Paris) 14,4: 343 (Dec. 1953c), excl. syn. *Dryopteris davalliaeformis* Tardieu.

*C. tindalii* Tardieu in Flore de Cameroun 3, Pteridophyta: 158 (30 Nov. 1964a), nom. nov. superfl. [McNeill *et al.* (2006) Art. 52.1].

Distribution: Cameroon, Equatorial Guinea, Gabon.

**Triplophyllum fraternum** *(Mett.) Holttum* in Kew Bulletin 41,2: 253 (1986), var. **fraternum**.

*Aspidium fraternum* Mett. ex Kuhn, Filices africanae: 132, 133 (Oct. 1868), p.p. typ. excl.
Type: 'Madagascaria', *L.H. Boivin s.n*. (W, lecto.), designated by Pichi Sermolli (1985b: 8); (B20 0086866, iso.).

*Ctenitis fraterna* (Mett. ex Kuhn) Tardieu in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*Dryopteris fraternum* (Mett. ex Kuhn) Alston in Journal of Botany, British and Foreign 72,861, Supplement: 2 (1934a).

*Nephrodium fraternum* (Mett. ex Kuhn) Hieron. in Die Vegetation der Erde 9,2: 10 (1908).

Distribution: Angola, Bioko, Cameroon, Coté d'Ivoire, DRC, Equatorial Guinea, Guinea, Liberia, Madagascar, Sierra Leone, Tanzania.

**Triplophyllum fraternum** *(Mett. ex Kuhn) Holttum* subsp. **biokoensis** *(Pic.Serm.) Pic.Serm*. in Webbia 45,1: 135 (1991).

*Ctenitis fraterna* (Mett. ex Kuhn) Tardieu subsp. *biokoensis* Pic.Serm. in Webbia 39,1: 10 (1985b).
Type: 'Fernando Po. Ad Clarence. Nov. 1841.', *T. Vogel 121* (K000351108!, holo.; B20 0086865, fragm., iso.).

Distribution: Angola, Bioko, Cameroon, Côte d'Ivoire, Guinea, Sierra Leone, Tanzania.

**Triplophyllum fraternum** *(Mett.) Holttum* var. **elongatum** *(Hook.) Holttum* in Kew Bulletin 41,2: 254 (1986).

*Nephrodium subquinquefidum* (P.Beauv.) Hook. var. *elongatum* Hook., Species filicum 4,14: 130 (Aug. 1862c).
Type: 'Principe Island', *G. Mann 1861* (K000351122!, lecto.), designated by Holttum (1986: 254).

Distribution: Príncipe.

**Triplophyllum gabonense** *Holttum* in Kew Bulletin 41,2: 245, fig. 3A (1986).
Type: 'Gabon, Metzic, in secondary forest at 600 m', *C. Jeffrey 71* (K000351125!, holo.).

Distribution: Angola, Gabon.

**Triplophyllum heudelotii** *Pic.Serm*. in Webbia 45,1: 126 (1991).
Type: Sénégambie. "Fougère. Habite les lieux rocailleux, sous les forets du Fonta Dhiallon", 1837, *J. Heudelot 703* (G, holo.; FI, G, K, OXF, P00483159, P00483095!, iso.).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Senegal, Sierra Leone, Tanzania, Togo, Uganda.

**Triplophyllum jenseniae** *(C.Chr.) Holttum* in Kew Bulletin 41,2: 253 (1986).

*Dryopteris jenseniae* C.Chr. in Dansk Botanisk Arkiv 9,3: 63, 64 (1937c).
Type: 'Tropical Africa: Belgian Congo, Dibele Territory, Sankuru, Pania-Dibele-Bulumbu Bena, by river, Nov. 10th, 1922', *J.M. Jensen 65* (BM, holo.).

*Ctenitis jenseniae* (C.Chr.) Tardieu in Notulae Systematicae (Paris) 14,4: 342 (Dec. 1953c).

*Phegopteris sparsiflora* Sadeb. in Berichte der Deutschen Botanischen Gesellschaft 13: 21, t. 3 (1895).
Type: unknown to current author.

Chromosome number: n = 82 (Manton 1959: 80).

Distribution: Bioko, Cameroon, DRC, Guinea, Liberia.

**Triplophyllum pentagonum** *(Bonap.) Holttum* in Kew Bulletin 41,2: 243 (1986).

*Dryopteris pentagona* Bonap. in Notes Ptéridologiques 4: 64, 65 (19 May 1917b).
Type: Madagascar. 'Règion floristique de l'Ouest. Manongarivo, Ambongo. Bois sablonneux humides. Janvier 1904', *H. Perrier de la Bâthie 7702* (P00483099, P00483100, holo.; P00483101, P00483102, iso.).

*Ctenitis pentagona* (Bonap.) Ching in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

*D. pentagona* Bonap. var. *caudata* Bonap. in Notes Ptéridologiques 4: 65 (19 May 1917b).
Type: Madagascar. 'Règion floristique de l'Ouest. Besafotra, affluent de droite du Menavana. Bois humides, gneiss. Janvier 1900', *H. Perrier de la Bâthie 466*, p.p. (P00483096, holo.; P00477883, P00477884, iso.).

Distribution: Madagascar.

**Triplophyllum pilosissimum** (*J.Sm. ex T.Moore) Holttum* in Kew Bulletin 41,2: 246 (1986).

*Lastrea pilosissima* J.Sm. ex T.Moore in The Gardeners' Chronicle and Agricultural Gazette 1855: 677 (1855).
Type: 'Cult. Chelsea Physic Garden in 1853, origin Sierra Leone', *T. Whitfield s.n*. (K000351111!, holo.).

*Ctenitis pilosissima* (J.Sm. ex T.Moore) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 11 (1956a).

*Nephrodium variabile* Hook., Species filicum 4,14: 140 (Aug. 1862c), p.p., excl. typ.
Type: Liberia. "Cape. Palma bush", *J. Ansell s.n*. (K000351112!, K000351113, lecto.), designated by Holttum (1986: 246); (K000351113!, isolecto.); 'Tropical East Coast of Africa, Isle of Nissobé', *L.H. Boivin s.n*. (syn., not located); "Gaboon River. W. Africa. Lat. 1. N." *G. Mann s.n* (B20 0069235!, B20 0069236!, K000351129!, K000351130!, syn.); "Fernando Po", *C. Barter s.n*. (K000351114!, K000351115!, syn.).

*Dryopteris vogelii* (Hook.) C.Chr. var. *variabilis* (Hook.) Bonap. in Notes Ptéridologiques 1: 75 (14 Jul. 1915b).

*D. vogelii* C.Chr. var. *variabile* (Hook.) Bonap. in Notes Ptéridologiques 4: 65 (19 May 1917b).

*D. vogelii* (Hook.) C.Chr. var. *variabile* (Hook.) Bonap. subvar. *remotipinnata* Bonap. in Notes Ptéridologiques 15: 17 (25 Feb. 1924).
Type: 'Uganda Protectorate. Kyalama. Stream-Edge. 4000 peds d'altitude. Juillet 1915', *R. Dümmer 2595* (US634892, holo.).

*C. variabilis* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 343 (Dec. 1953c).

Chromosome number: n = 82 (Manton 1959: 80).

Distribution: Angola, Bioko, Cameroon, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Sierra Leone.

**Triplophyllum principis** *Holttum* in Kew Bulletin 41,2: 246 (1986).
Type: 'Principe Island', *C. Barter 1927* (K000351127, K000351128!, holo.; BM, iso.).

*Dryopteris variabilis* (Hook.) Alston var. *barteri* (Hook.) Alston in Catalogue of the vascular plants of São Tomé (with Principe and Annobon): 64, fig. 1 (1 Sep. 1944).

*Nephrodium variabile* Hook. var. *barteri* Hook., Species filicum 4,14: 140 (Aug. 1862c).
Type: 'Prince's island, West Africa', *C. Barter s.n*. (K000351127, holo.).

Distribution: Príncipe, Uganda.

**Triplophyllum protensum** *(Afzel. ex Sw.) Holttum* in Kew Bulletin 41,2: 247 (1986).

*Aspidium protensum* Afzel. ex Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 36 (1801).
Type: "Sierra Leone", *A. Afzelius s.n.* (S, lecto.), designated by Pichi Sermolli (1991: 124); (B20 0063851, BM, iso.).

*Dryopteris protensa* (Afzel. ex Sw.) C.Chr., Index filicum: 286 (18 Nov. 1905).

*Ctenitis protensa* (Afzel. ex Sw.) Ching in Sunyatsenia 5,4: 250 (30 Oct. 1940a).
Note: the taxonomy and nomenclature of this species are discussed by Pichi Sermolli (1991: 117–135).

Chromosome number: n = 82 (Manton 1959: 80).

Distribution: Benin, Bioko, Equatorial Guinea, Ghana, Liberia, Sierra Leone, Uganda.

**Triplophyllum securidiforme** *(Hook.) Holttum* in Kew Bulletin 41,2: 242 (1986), var. **securidiforme**.

*Nephrodium subquinquefidum* (P.Beauv.) Hook. var. *securidiforme* Hook., Species filicum 4,14: 130 (Aug. 1862c).
Type: Fernando Po, *C. Barter 2042* (K000351117! K000351118!, K000351119!, lecto.), designated by Holttum (1986: 242).

*Aspidium securidiforme* (Hook.) Mett. ex Kuhn, Filices africanae: 141 (Oct. 1868).

*N. securidiforme* (Hook.) Diels in Die natürlichen Pflanzenfamilien 1,4: 175 (Aug. 1899b).

*Dryopteris securidiformis* (Hook.) C.Chr., Index filicum: 291 (18 Nov. 1905).

*Ctenitis securidiformis* (Hook.) Copel., Genera filicum: 125 (1947).

Distribution: Bioko, Cameroon, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Senegal, Sierra Leone.

**Triplophyllum securidiforme** *(Hook.) Holttum* var. **nanum** *(Bonap.) Holttum* in Kew Bulletin 41,2: 243 (1986).

*Dryopteris securidiformis* (Hook.) C.Chr. var. *nana* Bonap. in Notes Ptéridologiques 14: 211 (23 Nov. 1923a).
Type: 'Gabon. De Dikondon á Moabi, Sur rochers inondés. Mars 1913', *H. Pobéguin 37* (P, syn.); 'Gabon. De Dikondon à Moabi. Sous bois. Mars 1913', *H. Pobéguin 55* (P, syn.).

*Ctenitis securidiformis* (Hook.) Copel. var. *nana* (Bonap.) Tardieu in Mémoires de l'Institut Français d'Afrique Noire 28: 134 (1953d).

Chromosome number: 2n = 123 (Manton 1959: 81).

Distribution: Angola, Cameroon, DRC, Gabon, Liberia, Nigeria.

**Triplophyllum speciosum** *(Mett. ex Ettingh.) Holttum* in Kew Bulletin 41,2: 247 (1986).

*Aspidium speciosum* Mett. ex Ettingh., Die Farnkräuter der Jetzwelt: 180, pl. 106, fig. 12, pl. 109, fig. 10, pl. 110, fig. 8 (Nov.–Dec. 1864).
Type: 'Ins. Nossi Beh', *L.H. Boivin s.n.* (B20 0086864!, syn.); 'Madagascaria', *A.M.A.C. de Limminghe s.n.* (B20 0086863!, syn.).

*Ctenitis variabilis* (Hook.) Tardieu var. *speciosa* (Mett. ex Ettingh.) C.D.Adams & Alston in Bulletin of the British Museum (Natural History). Botany 1,6: 176 (1955).

*C. speciosa* (Mett. ex Ettingh.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 11 (1956a).

*Dryopteris protensa* (Afzel.) C.Chr. var. *speciosa* (Mett. ex Kuhn) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 29 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*D. protensa* (Afz.) C.Chr. var. *speciosa* (Mett. ex Kuhn) C.Chr. in Dansk Botanisk Arkiv 7: 62 (Oct. 1932b).

*A. funestum* sensu Kuhn, Filices africanae: 133 (1868).
Note: *Aspidium funestum* is a native to central tropical America, but the collection cited by Kuhn (1868: 133), *Boivin 1954* bis (P00483151, P00483152, P00483153, P00483154), is the lectotype of *Ctenitis speciosa* Alston.

Distribution: Angola, DRC, Ghana, Liberia, Madagascar.

**Triplophyllum subquinquefidum** *(P.Beauv.) Pic. Serm.* in Webbia 45,1: 129 (1991).

*Aspidium subquinquefidum* P.Beauv., Flore d'Oware et de Bénin 1,1: 34, pl. 19, fig. 1 (2 Oct. 1803).
Type: 'Oware et à Benin', *A.M.F.J. Palisot de Beauvois s.n.* (P00483160, isolecto.).

*Nephrodium subquinquefidum* (P.Beauv.) Hook., Species filicum 4,14: 130 (Aug. 1862c), excl. var. γ.

*Polypodium pubescens* Schumach., Beskrivels af Guineeiske planter: 453 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 227, 228 (1829).
Type: 'Voxer ved Aquapim', *P. Thonning 301* (C, holo.).

Distribution: Angola, Benin, Bioko, Cameroon, DRC, Gabon, Ghana, Guinea, Liberia, Nigeria, São Tomé, Sierra Leone, Togo.

**Triplophyllum troupinii** *(Pic.Serm.) Holttum* in Kew Bulletin 41,2: 243 (1986).

*Ctenitis troupinii* Pic.Serm. in Webbia 39,1: 23, 26, figs 7, 8 (1985b).
Type: 'Zaïre. Provincia orientale. Reserva floristica integrale dell'Isalowe presso Yangambi, terrestre nella foresta riparia lungo il ruscello Isalowe, ± 450 m, 9.VIII.1956', *R.E.G. Pichi Sermolli 5286* (FI-PS 20801, FI-PS 20803, holo.; FI-PS 20757, iso.).

Distribution: Cameroon, Congo, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Nigeria, Uganda.

**Triplophyllum varians** *(T.Moore) Holttum* in Kew Bulletin 41,2: 249, 250 (1986).

*Dictyopteris varians* T.Moore in The Gardeners' Chronicle and Agricultural Gazette 1863: 1108 (1863).
Type: 'cult. Hort. Edinb. 1863, origin Calabar', *sine coll. s.n.* (K000351120!, holo.).

*Tectaria varians* (T.Moore) C.Chr., Index filicum. Supplementum tertium pro annis 1917–1933: 186 (Oct. 1934).

*Polypodium sparsiflorum* Hook., Species filicum 5,17: 92, 93 (May 1864a).
Type: 'Tropical West Africa: Sierra del Crystal', *G. Mann 1634* (K000351131!, holo.).

*Aspidium sparsiflorum* (Hook.) Diels in Die natürlichen Pflanzenfamilien 1,4: 185 (Aug. 1899b).

*Tectaria sparsiflora* (Hook.) Alston in Journal of Botany, British and Foreign 72,861, Supplement: 3 (1934a).

Distribution: Angola, Cameroon, Congo, Côte d'Ivoire, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Sudan.

**Triplophyllum vogelii** *(Hook.) Holttum* in Kew Bulletin 41,2: 249 (1986).

*Aspidium vogelii* Hook. in Hooker's Icones Plantarum, ser. 2, 6: pl. 921 (1843).
Type: 'Fernando Po', "ad rivuli litt. sax.", *T. Vogel 250* (K000351121!, holo.).

*Ctenitis vogelii* (Hook.) Ching in Sunyatsenia 5,4: 250 (30 Oct. 1940a).

*A. lanigerum* Mett. ex Kuhn, Filices africanae: 135 (Oct. 1868).
Type: 'Congo', *C. Smith s.n*. (C, holo.).

*Dryopteris lanigera* (Mett. ex Kuhn) C.Chr., Index filicum: 273 (18 Nov. 1905).

*C. lanigera* (Mett. ex Kuhn) Tardieu in Notulae Systematicae (Paris) 14,4: 343 (Dec. 1953c).

Chromosome number: n = ± 82 (Manton 1959: 80).

Distribution: Bioko, Congo, Equatorial Guinea, Liberia, Uganda.

## THELYPTERIDACEAE

**Thelypteridaceae** *Pic.Serm*. in Webbia 24,2: 709, 710 (28 Apr. 1970a). Type: *Thelypteris* Schmidel.

*Sphaerostephanaceae* Ching in Sunyatsenia 5: 211, 240 (1940a), num. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Type: *Sphaerostephanos* J.Sm.

*Thelypteridaceae* Pic.Serm. tr. *Thelypterideae* Ching in Sunyatsenia 5,4: 238 (1940a).

*Thelypteridaceae* Pic.Serm. tr. *Goniopterideae* Ching in Sunyatsenia 5,4: 239 (1940a).

*Thelypteridaceae* Pic.Serm. tr. *Thelypterideae* Ching subtr. *Thelypteridinae* Ching in Acta Phytotaxonomica Sinica 8,4: 295 (1963). Type: *Thelypteris* Schmidel.

*Thelypteridaceae* Schmidel tr. *Goniopterideae* Ching subtr. *Cyclosorinae* Ching in Acta Phytotaxonomica Sinica 8,4: 296 (1963). Type: *Cyclosorus* Link.

*Thelypteridaceae* Pic.Serm. tr. *Goniopterideae* Ching subtr. *Pseudocyclosorinae* Ching in Acta Phytotaxonomica Sinica 8,4: 296 (1963). Type: *Pseudocyclosorus* Ching.

*Thelypteridaceae* Pic.Serm. tr. *Goniopterideae* Ching subtr. *Menisciinae* Ching in Acta Phytotaxonomica Sinica 8,4: 296 (1963). Type: *Meniscium* Sw.

*Thelypteridaceae* Pic.Serm. tr. *Thelypterideae* Ching subtr. *Phegopteridinae* Ching in Acta Phytotaxonomica Sinica 8,4: 296 (1963). Type: *Phegopteris* Fée.

*Parathelypteris* (H.Itô) Ching in Acta Phytotaxonomica Sinica 8,4: 300, 301 (Oct. 1963), p.p. Type: *Parathelypteris glandulifera* (Kunze) Ching; *Aspidium glanduliferum* Kunze.

### AMAUROPELTA

**Amauropelta** *Kunze*, Die Farrnkräuter 1,5: 86, 109, pl. 51 (11–13 Dec. 1842). Type: *Amauropelta breutelii* Kunze (now *Amauropelta limbata* (Sw.) Pic. Serm.; *Aspidium limbatum* Sw.).

*Thelypteris* Schmidel subgen. *Amauropelta* (Kunze) A.R.Sm. in American Fern Journal 63,3: 121 (15 Nov. 1973).

*Thelypteris* Schmidel subgen. *Amauropelta* (Kunze) A.R.Sm. sect. *Uncinella* A.R.Sm. in American Fern Journal 64,3: 89 (8 Oct. 1974).

*Amauropelta* Kunze sect. *Uncinella* (A.R.Sm.) J.P.Roux, Conspectus of southern African Pteridophyta: 116 (Nov. 2001a).

**Amauropelta bergiana** *(Schltdl.) Holttum* in Journal of South African Botany 40,2: 133 (1974b), var. **bergiana**.

*Polypodium bergianum* Schltdl., Adumbrationes plantarum 2: 20, pl. 9 (Jun.–Dec. 1825b).
Type: 'ad Kerstenbosch', *C.H. Bergius s.n*.
(B20 0052870!, B20 0052878!, right-hand specimen, syn.); 'In sylvis Promontorii bonae spei', *J.L.L. Mund et L. Maire s.n.* (B20 0052872!, B20 0052873!, syn.).

*Lastrea bergiana* (Schltdl.) T.Moore, Index filicum 2,8: 86 (1858a).

*Aspidium bergianum* (Schltdl.) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 363 (1858).

*Dryopteris bergiana* (Schltdl.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Nephrodium bergianum* (Schltdl.) Baker in Synopsis filicum 7: 269 (4 Oct. 1867e).

*D. prolixa* (Willd.) Kuntze var. *bergiana* (Schltdl.) Alston in Journal of South African Botany 4: 149 (1938a).

*Thelypteris bergiana* (Schltdl.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 251 (1941a).

*N. sewellii* Baker in Journal of the Linnean Society, Botany 15: 418 (1876b).
Type: Madagascar, *W. Pool s.n*. (K000435782, holo.).

*D. sewellii* (Baker) C.Chr., Index filicum: 292 (18 Nov. 1905).

*N. anateinophlebium* Baker in Journal of the Linnean Society, Botany 16: 202 (1877a).
Type: Madagascar, *H. Gilpin s.n*. (K000435783, holo.).

*D. anateinophlebia* (Baker) C.Chr., Index filicum: 163 (20 Aug. 1905).

*Aspidium maranguense* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).
Type: 'Kl., Marangu', *G.L.A. Volkens 1267* (B, holo.).

*D. maranguensis* (Hieron.) C.Chr., Index filicum: 276 (18 Nov. 1905).

*L. maranguensis* (Hieron.) Copel., Genera filicum: 139 (1947).

*D. palmii* C.Chr. in Arkiv för Botanik 14,19: 1, 2, pl. 2, fig. 6 (24 Mar. 1916).
Type: 'Madagascaria: Moramanga, in silvis primaevis, 3.10.1912', *K.R. Afzelius & B.T. Palm s.n*. (C, holo.).

Distribution: Angola, Bioko, Burundi, Cameroon, Kenya, Madagascar, Malawi, Mozambique, Nigeria, Réunion, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Zambia, Zimbabwe.

See Plate 8B.

**Amauropelta bergiana** *(Schltdl.) Holttum* var. **calva** *Holttum* in Journal of South African Botany 40,2: 133, 134 (1974b).
Type: 'Cameroon Mt, Mann's Spring', *P.W. Richards 4308* (K, holo.).

Distribution: Cameroon, Comoro Isl., Réunion.

**Amauropelta bergiana** *(Schltdl.) Holttum* var. **tristanensis** *Holttum* in Journal of South African Botany 40,2: 134 (1974b).
Type: 'Tristan da Cunha', *D. Carmichael s.n*. (K, holo.).

Chromosome number: tetraploid or hexaploid, 2n = ± 170 (Manton & Vida 1968: 364). Holttum (1974b: 134) found the species to be a hexaploid.

Distribution: Gough Isl., Inaccessible Isl., Tristan da Cunha.

**Amauropelta heteroptera** *(Desv.) Holttum* in Journal of South African Botany 40,2: 132 (1974b).

*Nephrodium heteropterum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 256 (Jul. 1827).
Type: 'Habitat in insula Mascareigne', *sine coll. s.n*. (P00482790!, holo.).

*Aspidium heteropteron* (Desv.) Mett. ex Kuhn, Filices africanae: 134 (Oct. 1868).

*Dryopteris heteroptera* (Desv.) C.Chr., Index filicum: 270 (18 Nov. 1905).

*Thelypteris heteroptera* (Desv.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu

lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 276, fig. 38, t. 6–10 (May 1958b).

*Polypodium sieberianum* Kaulf. ex Spreng., Systema vegetabilium, edn 16, 4,1: 56 (Jan. 1827).
Type: 'Ins. Mascaren', *F.W. Sieber 37* (P00482791!, holo.; K000351160!, iso.).

*Aspidium stipulaceum* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 366, 367 (1858).
Type: 'Ins. Bourbonia', *J.B.G.M. Bory de St.-Vincent s.n.* (not located).

*Phegopteris scalpturata* Fée, Cinquième mémoires sur la famille des fougères: 245 (1852).
Type: 'Habitat in insulis Madagascariensi et Borboniâ', *sine coll. s.n.* Holttum (1974b: 132) gives *A. Pervillié s.n.* (P00482792, holo.).

*D. heteroptera* (Desv.) C.Chr. var. *comoriensis* Bonap. in Notes Ptéridologiques 10: 145 (18 Mar. 1920d).
Type: 'Grande Comore. Environs de Nioumbadjou. De 400 à 500 mètres d'altitude. Première quinzaine d'avril 1911', *L. Humblot s.n.* (P?, holo.).

Distribution: Réunion, ?Madagascar, ?Mauritius.

**Amauropelta knysnaensis** *(N.C.Anthony & Schelpe) Parris* in Kew Bulletin 41,1: 70 (1986).

*Thelypteris knysnaensis* N.C.Anthony & Schelpe in Contributions from the Bolus Herbarium 10: 155 (2 Apr. 1982).
Type: 'South Africa, George, Groeneweidebos, 200 m, 11/09/1981', *C.J. Geldenhuys 609* (BOL128025, holo.).

Distribution: South Africa.

**Amauropelta membranifera** *(C.Chr.) Holttum* in Journal of South African Botany 40,2: 132 (1974b).

*Dryopteris membranifera* C.Chr., Notes Ptéridologiques 16: 170, pl. 2c (14 Apr. 1925b).
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analamazaotra, Décembre', *H. Perrier de la Bâthie 6067* (P00482754!, holo.; P00482755!, iso.).

*Cyclophorus membranifera* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 246 (1941a).

*C. membranifera* (C.Chr.) Alston in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 33 (1954).

*Thelypteris membranifera* (C.Chr.) C.F.Reed in Phytologia 17,4: 292 (1968).

Distribution: Madagascar.

**Amauropelta odontosora** *(Bonap.) Holttum* in Kew Bulletin 30,4: 608 [1975] (1976a).

*Dryopteris odontosora* Bonap. in Notes Ptéridologiques 4: 17, 18 (19 May 1917a).
Type: 'Côte occidentale d'Afrique. Côte de l'Ivoire. Région de Bingerville, Abidjan-Dabou. 1905', *A. Chevalier 15605* (P?, holo.; BM, iso.).

*Thelypteris odontosora* (Bonap.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 253 (1941a).

Distribution: Cote d'Ivoire.

**Amauropelta oppositiformis** *(C.Chr.) Holttum* in Journal of South African Botany 40,2: 135 (1974b).

*Dryopteris oppositiformis* C.Chr. in Notes Ptéridologiques 16: 173, 174, t. 2 (14 Apr. 1925b).
Type: Madagascar. 'Région floristique du Centre. Btafo. Altitude de 1 400 mètres, Bois. Mai 1914', *H. Perrier de la Bâthie 7582* (P00482756!, holo.; P00482757, iso.).

*Thelypteris oppositiformis* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 253 (1941a).

*D. tsaratananensis* C.Chr., Dansk Botanisk Arkiv 7: 45, pl. 9, figs1–5 (Oct. 1932b).
Type: Madagasar. 'Mt Tsaratanana: Brousse éricoide, 2 600 m., april 1924', *H. Perrier de la Bâthie 16455* (BM, holo.; P00482758!, P00482759!, iso.).

*T. tsaratananensis* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 255 (1941a).

*T. strigosa* sensu Schelpe in Flora zambesiaca, Pteridophyta: 193 (1970).

Distribution: Burundi, Cameroon, DRC, Ethiopia, Kenya, Madagascar, Malawi, Nigeria, Rwanda, South Africa, Sudan, Tanzania, Uganda, Zimbabwe.

**Amauropelta salazica** *(Holttum) Holttum* in Kew Bulletin 30,4: 607 [1975] (1976a).

*Parathelypteris salazica* Holttum in Journal of South African Botany 40,2: 136, 137 (1974b).
Type: 'Réunion, Plaine des Salazes, 2 200 m, fissures humides (avec *Sphagnum* e Hépatiques)', *Cadet 1981* bis (P00482763!, holo.).

Distribution: Réunion.

**Amauropelta strigosa** *(Willd.) Holttum* in Journal of South African Botany 40,2: 134 (1974b).

*Aspidium strigosum* Willd., Species plantarum, edn 4, 5,1: 249 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19778!, holo.).

*Dryopteris strigosa* (Willd.) C.Chr., Index filicum: 295 (18 Nov. 1905).

*Thelypteris strigosa* (Willd.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 274, fig. 38, t. 11–15 (May 1958b).

Distribution: Madagascar, Mauritius, Réunion.

**Amauropelta tomentosa** *(Thouars) Holttum* in Journal of South African Botany 40,2: 134 (1974b).

*Polypodium tomentosum* Thouars, Esquisse de la flore de l'Ile de Tristan d'Acugna: 32, 33, pl. 3 (1808).
Type: ?Tristan da Cunha, *L.-M.A. du Petit-Thouars s.n.* (P00482988!, holo.).
Note: the type of *Amauropelta tomentosa*, indicated as being from Tristan da Cunha, appears to be erroneous.

*Nephrodium tomentosum* (Thouars) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 256 (Jul. 1827).

*Dryopteris tomentosa* (Thouars) Kuntze, Revisio generum plantarum 2: 813, 814 (5 Nov. 1891).

*Thelypteris tomentosa* (Thouars) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 255 (1941a).

*Aspidium bifidum* Carmich. in Transactions of the Linnean Society of London 12: 511 (1818), nom. superfl. [McNeill *et al.* (2006) Art. 52.1].
Type: Tristan da Cunha. 'In the wood: common', *sine coll. s.n.* (not located).

*Aspidium riparium* Bory ex Willd., Species plantarum, edn 4, 5,1: 250, 251 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19782!, holo.; P00482983!, P00482984!, iso.).

*N. conterminum* Desv. var. *β thouarsianum* Hook., Species filicum 4,14: 91 (Aug. 1862c).
Type: 'Tristan d'Acunha', *L.-M.A. du Petit-Thouars s.n.*, *D. Carmichael s.n.* (not located).

Distribution: Mauritius, Réunion.

## AMBLOVENATUM

**Amblovenatum** *J.P.Roux*, nom. nov. for *Amphineuron* Holltum, hom. illeg. [McNeill *et al.* 2006 (Art. 53.3)], non *Amphineurion* (A.DC.) Pichon (Apocynaceae).
Note: Report of the Nomencalture Committee for Vascular Plants: 58 (Brummitt 2007: 593).

*Amphineuron* Holttum in Blumea 19,1: 45, figs 19, 19a (1971b), nom. nud. [McNeill *et al.* (2006) Art. 53.3]. Type: *Amphineuron opulentum* (Kaulf.) Holttum; *Aspidium opulentum* Kaulf.

**Amblovenatum opulentum** *(Kaulf.) J.P.Roux*, nom. nov. for *Amphineuron opulentum* (Kaulf.) Holttum.

*Aspidium opulentum* Kaulf., Enumeratio filicum: 238 (Oct. 1824).
Type: 'Habitat in Guahan', *L.A. von Chamisso s.n*. (LE, holo.).

*Thelypteris opulenta* (Kaulf.) Fosberg in F.R. Fosberg & M.-H. Sachet in Smithsonian Contributions to Botany 8: 3 (1972), excl. syn. *Nephrodium terminans* Wall.

*Amphineuron opulentum* (Kaulf.) Holttum in Blumea 19,1: 45 (1971b).

*Aspidium extensum* Blume, Enumeratio plantarum Javae 2: 156 (15 Dec. 1828).
Type: Pulo Pinang, *C.L. von Blume s.n*. (L, holo.).

*Nephrodium extensum* (Blume) T.Moore, Index filicum 2,8: 91 (1858a).

*Dryopteris extensa* (Blume) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Cyclosorus extensus* (Blume) Ching in Bulletin of the Fan Memorial Institute of Biology 8,4: 182 (1938a).

*T. extensa* (Blume) C.V.Morton in American Fern Journal 49,3: 113 (29 Sep. 1959a).

*N. wakefieldii* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 326 (1891a).
Type: 'Mombasa', *T. Wakefield s.n*. (K000435787, holo.).

*Aspidium wakefieldii* (Baker) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).

*D. wakefieldii* (Baker) C.Chr., Index filicum: 301 (18 Nov. 1905).

*N. impressum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 259 (Jul. 1827).
Type: 'Habitat in Timor', *sine coll. s.n*. (not located).

*C. impressus* (Desv.) Alston in Estudos, ensaios e documentos, Junta de Investigações Cientificas do Ultramar 12: 32 (1954).

Distribution: Diego Garcia, Madagascar.

**Amblovenatum terminans** *(Hook.) J.P.Roux*, nom. nov. for *Amphineuron terminans* (Hook.) Holttum.

*Amphineuron terminans* (Hook.) Holttum in Journal of South African Botany 40,2: 162 (1974b).

*Nephrodium terminans* Hook., Species filicum 4,14: 73 (Aug. 1862c).
Type: 'Kamoun', *N. Wallich 386* (K, syn.).

*N. oreopteris* Fée, Cinquième mémoires sur la famille des fougères: 306 (1852), non Desv. (1827: 257).
Type: 'Habitat in insulis Philippinis', *H. Cuming 48* (K, Z000002287, iso.).

*Thelypteris wagneri* Fosberg & Sachet in Smithsonian Contributions to Botany 8: 6 (1972).
Type: 'Java, Lebaksioe, 1897', *M. Raciborski s.n*. (US, holo.; US, iso.).

Distribution: Bioko, Central African Republic.

## AMPELOPTERIS

**Ampelopteris** *Kunze* in Botanische Zeitung (Berlin) 6,7: 114, 115 (18 Feb. 1848b). Type: *Ampelopteris elegans* Kunze (now *Ampelopteris prolifera* (Retz.) Copel.; *Hemionitis prolifera* Retz.).

*Thelypteris* Schmidel subgen. *Meniscium* Schreb. sect. *Ampelopteris* (Kunze) C.F.Reed in Phytologia 17,4: 255 (1968).

**Ampelopteris prolifera** *(Retz.) Copel.*, Genera filicum: 144 (1947).

*Hemionitis prolifera* Retz., Observationes botanicae 6: 38 (Jul.–Nov. 1791).
Type: 'Habitat in India orientali', *J.G. König s.n*. (GOET, holo.).

*Meniscium proliferum* (Retz.) Sw., Synopsis filicum: 19, 207 (Mar.–Apr. 1806b).

*Aspidium proliferum* (Retz.) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895), non R.Br. (1810: 147).

*Goniopteris prolifera* (Retz.) C.Presl, Tentamen pteridographiae: 183 (Oct. 1836).

*Nephrodium proliferum* (Retz.) Keyserl., Polypodiacea et Cyatheacea herbarii bungeani: 49 (1873).

*Dryopteris prolifera* (Retz.) C.Chr., Index filicum: 286 (18 Nov. 1905).

*Cyclosorus proliferus* (Retz.) Tardieu & C.Chr. in Notulae Systematicae (Paris) 14,4: 346 (Dec. 1953b).

*Thelypteris prolifera* (Retz.) P.J.Vorster in Bothalia 12: 260 (17 Aug. 1977).

Distribution: Angola, Bioko, Botswana, Burundi, DRC, Guinea, Madagascar, Malawi, Mozambique, Senegal, South Africa, Swaziland, Tanzania, Zanzibar, Zimbabwe.

## ×CHRISMATOPTERIS

**×Chrismatopteris** *N.Quansah & D.S.Edwards* in Kew Bulletin 41,4: 805–807 (1986). Type: *×Chrismatopteris holttumii* N.Quansah & D.S.Edwards.
Note: a bigeneric hybrid between *Christella* H.Lév. and *Pneumatopteris* (C.Chr.) Holttum.

**×Chrismatopteris holttumii** *N.Quansah & D.S.Edwards* in Kew Bulletin 41,4: 807, figs 1–3 (1986).
Type: "Ghana. Central Region Efutu, c. 100 m in cocoa plantation among *C. dentate* and *P. afra*, 13 Jan. 1982", *N. Quansah 123* (K, holo.; CCG, iso.).

Note: a natural bigeneric hybrid between *Christella dentata* (Forssk.) Brownsey & Jermy and *Pneumatopteris afra* (C.Chr.) Holttum.

Distribution: Cameroon, Ghana, Kenya, Liberia, Nigeria, Sierra-Leone, Tanzania, Uganda.

## CHRISTELLA

**Christella** *H.Lév.*, Flore du Kouy-Tchéou: 472 (1914–1915), emend. Holttum (1971c: 533). Lectotype: *Christella parasitica* (L.) H.Lév.; *Polypodium parasitica* L., designated by Holttum (1971c: 534).

*Christella* H.Lév. sect. *Pelazoneuron* Holttum in Journal of South African Botany 40,2: 144 (1974b). Type: *Polypodium patens* Sw.

**Christella afzelii** *(C.Chr.) Holttum* in Journal of South African Botany 40,2; 146 (1974b).

*Dryopteris afzelii* C.Chr. in Arkiv för Botanik 14,19: 2, 3, pl. 1, fig. 3 (24 Mar. 1916).
Type: 'Madagascaria: Moramanga in silvis primaevis, 3.10.1912', *K.R. Afzelius & B.T. Palm 480* (P, holo.).

*Thelypteris afzelii* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 282 (May 1958b).

Distribution: Madagascar.

**Christella altissima** *Holttum* in Journal of South African Botany 40,2: 141, 142 (1974b).
Type: 'Natal, in a bog,' *J. Buchanan 103b* (K000435792, K000435793, K000435794, holo.).

*Thelypteris altissima* (Holttum) P.J.Vorster in Bothalia 12: 260 (17 Aug. 1977).

Distribution: South Africa.

**Christella buchananii** *(Schelpe) J.P.Roux*, Conspectus of southern African Pteridophyta: 120 (Nov. 2001a).

*Thelypteris dentata* (Forssk.) E.P.St.John var. *buchananii* Schelpe in Journal of South African Botany 31,4: 265 (1965), p.p.
Type: 'Moçambique, Manica e Sofala, Garuso 'Jagersberg' (Bandula Mountain), locally frequent on streambank in forest, 2600 ft, 11.vii.1955', *E.A.C.L.E. Schelpe 5599* (BOL128026!, BOL128027!, holo.).

Distribution: Mozambique, South Africa.

**Christella burundensis** *Pic.Serm.* in Bulletin du Jardin Botanique National de Belgique 53,1/2: 277, 279, fig. 18 (1983a).
Type: 'Burundi, Prov. Burundi, lungo la strada de Rumonge per Bururi al km 20 (3°59'S–29°34'E), 1 700 m, sulle scarpate terrose soleggiate, terrestre, 18.XII.1966', *R.E.G. Pichi Sermolli 6983* (FI-PS 23537, holo.).

Distribution: Burundi.

**Christella callensii** *(Alston) Holttum* in Journal of South African Botany 40,2: 146 (1974b).

*Cyclosorus callensii* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 13 (1956a).
Type: 'Belgian Congo: among rocks near the waterfall, Zongo 60 km N of Kisantu, Province Leopoldville', *P.H. Callens 2861* (BM, holo.).

*Thelypteris callensii* (Alston) C.F.Reed in Phytologia 17,4: 266 (1968).

Distribution: Congo, DRC.

**Christella chaseana** *(Schelpe) Holttum* in Journal of South African Botany 40,2: 148 (1974b).

*Thelypteris chaseana* Schelpe in Journal of South African Botany 31,4: 263 (8 Oct. 1965).
Type: 'South West Africa, Otjiwarongo District. Grosse Waterberg above Waterberg Station, locally common along perennial stream in bush in shade on south aspect, 5200 ft, 14.vii.1954', *E.A.C.L.E. Schelpe 4791* (BOL128028, BOL128040, BOL128041, BOL128042!, holo.; BM, iso.).

*Lastrea chaseana* (Schelpe) Pic.Serm. in Webbia 23,1: 175 (20 Nov. 1968a).

Distribution: Angola, Cameroon, Congo, Ethiopia, Kenya, Malawi, Mozambique, Namibia, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

**Christella dentata** *(Forssk.) Brownsey & Jermy* in Fern Gazette 10,6: 338 (15 Sep. 1973).

*Polypodium dentatum* Forssk., Flora aegyptico-arabica: 185 (1 Oct. 1775).
Type: 'Sum priore in montibus Yemenad Bolghose, 1763', *P. Forsskål 809* (C!, lecto.?).

*Dryopteris dentata* (Forssk.) C.Chr. in Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 6,1: 24 (1920a).

*Thelypteris dentata* (Forssk.) E.P.St.John in American Fern Journal 26,2: 44 (29 Oct. 1936).

*Cyclosorus dentatus* (Forssk.) Ching in Bulletin of the Fan Memorial Institute of Biology 8,4: 206 (1938a).

*Aspidium aquapimense* Schumach., Beskrivels af Guineeiske planter: 456 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 230, 231 (1829).
Type: 'Voxer ved Aquapim', *P.E. Isert s.n.* (C, holo.).

*P. molle* Jacq., Collectanea 3: 188, 189 [1789] (1791), non Schreb. (1771: 70), nec All. (1785: 287), nom. illeg.
Type: 'Crescit in rupestribus ubis ad Caracas', *sine coll. s.n.* (not located).

*A. molle* (Jacq.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 34, 35 (1801).

*D. molle* (Jacq.) Hieron. in Hedwigia 46: 348 (1907), non Maxon (1909: 18).

*Nephrodium molle* (Jacq.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 258 (Jul. 1827).

*A. violascens* Link, Hortus regius botanicus berolinensis 2: 115, 116 (Jul.–Dec. 1833b).
Type: Cult. Hort. Berol., *sine coll. s.n.* (B, holo.).

*A. molle* Sw. var. *violascens* (Link) Mett. ex Kuhn, Filices africanae: 25 (Oct. 1868).

*N. violascens* (Link) Fée, Cinquième mémoires sur la famille des fougères: 305 (1852).

*D. parasitica* (L.) Kuntze var. *coriacea* Bonap. in Notes Ptéridologiques 5: 81, 82 (10 Dec. 1917e).
Type: Madagascar. 'Province d'Andovoranto. District de Moramanga. Dépression près du sommet de la montagne au Sud-Est de Lohariandava, vers 3 500 mètres d'altitude. Le 12 Octobre 1912', *R. Viguier & H. Humbert 664* (P00482793!, holo.; P00482794!, iso.).

*N. hispidulum* Peter in Feddes Repertorium, Beiheft 40,1: 58, Anhang: 4, t. 4, figs a, b (1929).
Type: 'SüdRhodesia: Victoria Falls, "Rain Forest" an den Wasserfällen des Sambesi', *A. Peter 30794* (B, holo.).

*N. molle* sensu Balf.f. in Philosophical Transactions of the Royal Society of London 168: 387 (1879), non (Jacq.) Desv. (1827: 258).

Chromosome number: n = 72 (Manton 1959: 80).

Distribution: Angola, Annobon, Ascension Isl., Benin, Bioko, Burkina Faso, Burundi, Cameroon, Cape Verde Isl. (Sto. Antão, S. Vicente, S. Nicolau, Santiago, Fogo, Brova), Coté d'Ivoire, DRC, Equatorial Guinea, Ghana, Guinea, Guinea-Bissau, Kenya, Liberia, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Pemba, Rodrigues Isl., Rwanda, Sierra Leone, Socotra, South Africa, St Helena, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zanzibar.

**Christella distans** *(Hook.) Holttum* in Journal of South African Botany 40,2: 140 (1974b).

*Nephrodium distans* Hook. in Synopsis filicum 7: 288 (4 Oct. 1867e).
Type: 'Madagascar', *L.H. Boivin s.n.* (K000435800, syn.); 'Johanna Island', *J. Kirk s.n.* (K, syn.).

*Aspidium distans* (Hook.) Kuhn, Filices africanae: 209 (Oct. 1868), non Viviani (1825: 8).

*Dryopteris distans* (Hook.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Cyclosorus distans* (Hook.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 244 (1941a).

*Thelypteris distans* (Hook.) C.F.Reed in Phytologia 17,4: 273 (1968).

*N. eurostotrichum* Baker in Journal of Botany, British and Foreign 1880,9: 329, 330 (1880b).
Type: Madagascar. 'Forest of Andrangaloaka, and betweenTamatave and Antananarivo', *L. Kitching s.n.* (K000435801, K000435802, holo.).

*Cyclosorus distans* (Hook.) Tardieu var. *mascarensis* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 297 (May 1958b).

*Polypodium mascarense* Baker in Synopsis filicum 10: 455 (Apr. 1868b).
Type: 'Ampassimba, Madagascar', *Higginson s.n*. (?K, not located).

*D. mascarensis* (Baker) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

Distribution: Comoro Isl., Madagascar.

**Christella friesii** *(Brause) Holttum* in Journal of South African Botany 40,2: 145 (1974b).

*Dryopteris friesii* Brause in Wissenschaftliche Ergebnisse der Schwedischen Rhodesia-Kongo Expedition 1911–1912 1: 1, 2 (1914).
Type: 'Nordost-Rhodesia: Luvigo, in dichtem Wald auf feuchten Boden', *R.E. Fries 1104* (UPS, holo.).

*Thelypteris friesii* (Brause) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 216 (1967).

Distribution: Angola, Cameroon, Congo, DRC, Kenya, Malawi, Tanzania, Zambia, Zimbabwe.

**Christella gueinziana** *(Mett.) Holttum* in Journal of South African Botany 40,2: 147 (1974b).

*Aspidium gueinzianum* Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 367, 368 (Aug. 1858), as '*gueintzianum*' Type: 'Prom. b. spei. Port Natal', *W. Gueinzius s.n*. (B20 0057650!, lecto.), designated by Schelpe (1965: 262).

*Lastrea gueinziana* (Mett.) T.Moore, Index filicum 2,8: 93 (1858a).

*Nephrodium gueinzianum* (Mett.) Hieron. in Botanische Jahrbücher 28: 341 (1900a), as '*Gueintzianum*'.

*Dryopteris gueinziana* (Mett.) C.Chr., Index filicum: 269 (18 Nov. 1905).

*Thelypteris gueinziana* (Mett.) Schelpe in Journal of South African Botany 31,4: 262 (Oct. 1965), as '*gueintziana*'.

*D. prolixa* sensu C.Chr. in Dansk Botanisk Arkiv 7: 46 (Oct. 1932b), non *Aspidium prolixum* Willd. (1810: 251).

*T. prolixa* sensu Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 280, fig. 39, t. 8–10 (May 1958b), non *Aspidium prolixum* Willd. (1810: 251).

Distribution: Angola, Burundi, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Rwanda, South Africa, ?St Helena, Sudan, Swaziland, Tanzania, Zambia, Zimbabwe.

**Christella guineensis** *(H.Christ) Holttum* in Journal of South African Botany 40,2: 145 (1974b).

*Dryopteris guineensis* H.Christ in Journal de Botanique (L. Morot, ed.) 22: 22 (1909a).
Type: 'Guinée françies: Labé, entre 1 100 m d'alt., mars 1905', *A. Chevalier 12385* (P, lecto.), designated by Holttum (1974b: 145); 'Guinée françies: Labé, entre 1 100 m d'alt., mars 1905', *A. Chevalier 12363* (P?, syn.).

*Thelypteris guineensis* (H.Christ) Alston in Bulletin of the British Museum (Natural History). Botany 1: 48 (1952).

Distribution: Angola, Guinea, Liberia, Nigeria, Sierra Leone, Zambia.

**Christella hispidula** *(Decne.) Holttum* in Kew Bulletin 31,2: 312 (1976b).

*Aspidium hispidulum* Decne. in Nouvelles Annales du Muséum d'Histoire Naturelle 3: 346 (1834).
Type: Timor, *A. Guichenot s.n*. (P, holo.).

*Thelypteris hispidula* (Decne.) C.F.Reed in Phytologia 17,4: 283 (1968).

*Nephrodium hilsenbergii* C.Presl, Epimeliae botanicae: 47, 48 (1851).
Type: 'Habitat in insula Mauritii', (C.T. Hilsenberg) *F.W. Sieber 49* (PRC, holo.; K000435795, P00482902!, P00482903!, iso.).

*Christella hilsenbergii* (C.Presl) Holttum in Journal of South African Botany 40,2: 142 (1974b).

*Dryopteris parasitica* (L.) Kuntze var. *hilsenbergii* (C.Presl) Bonap. in Notes Ptéridologiques 15: 15 (25 Feb. 1924).

*N. quadrangulare* Fée, Cinquième mémoires sur la famille des fougères: 308 (1852).
Type: 'Habitat in Guyanâ gallicâ, in sylvis paludosis ad ripas amnis Mont-Tigre,' *F.R. Leprieur 182* (P?, holo.; NY, iso.).

*D. quadrangularis* (Fée) Alston in Journal of Botany, British and Foreign 75: 253 (1937).

*Cyclosorus quadrangularis* (Fée) Tardieu in Notulae Systematicae (Paris) 14,4: 345 (Dec. 1953c).

*T. quadrangularis* (Fée) Schelpe in Journal of South African Botany 30,4: 196, t. 1, fig. b (21 Oct. 1964).

*D. contigua* Rosenst. in Mededeelingen van's Rijks-Herbarium 31: 8 (May 1917).
Type: Borneo, *R. Teuscher s.n*. (L, holo.).

*Cyclosorus contiguus* (Rosenst.) Copel., Genera filicum: 142 (1947).

*T. contigua* (Rosenst.) C.F.Reed in Phytologia 17,4: 269 (1968).

Chromosome number: n = 36 (Manton 1959: 80).

Distribution: Angola, Bioko, Coté d'Ivoire, Ethiopia, Ghana, Kenya, Liberia, ?Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Seychelles, Sierra Leone, South Africa, Tanzania, Zambia, Zimbabwe.

**Christella microbasis** *(Baker) Holttum* in Journal of South African Botany 40,2: 146 (1974b).

*Nephrodium microbasis* Baker in Synopsis filicum, edn 2: 496, 497 (Oct. 1874a).
Type: 'Banks of the Niger', *C. Barter 571* (K000435804, holo.).

*Dryopteris microbasis* (Baker) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*Thelypteris microbasis* (Baker) Tardieu in Notulae Systematicae (Paris) 14,4: 344 (Dec. 1953c).

*Lastrea microbasis* (Baker) Pic.Serm. in Webbia 23,1: 175 (20 Nov. 1968a).

*D. adenochlamys* C.Chr. in Feddes Repertorium 9: 370 (1911a).
Type: 'Guinea gallica, Futa Djallon, Pita, 9 Jan. 1910', *H. Propéguin 9* (P, holo.).

Chromosome number: n = 72 (Manton 1959: 80).

Distribution: Angola, Benin, Cameroon, Côte d'Ivoire, Ghana, Guinea, Kenya, Liberia, Mali, Nigeria, Sierra Leone, Sudan, Tanzania, Zimbabwe.

**Christella modesta** *Holttum* in Journal of South African Botany 40,2: 144 (1974b).
Type: 'Madagascar, Zahamena (Réserve naturelle n. 3)', *R. Decary 16485* (P00482796!, holo.).

Distribution: Madagascar.

**Christella multifrons** *(C.Chr.) Holttum* in Journal of South African Botany 40,2: 145 (1974b).

*Dryopteris multifrons* C.Chr. in Notes Ptéridologiques 16: 172, 173, pl. IIB (14 Apr. 1925a).
Type: Madagascar. 'Région floristique de l'Est. Forêt d'Analamazatra. Bois humide. Fèvrier 1912', *H. Perrier de la Bâthie 11538* (P00482797!, holo.; P00482798!, iso.).

*Thelypteris multifrons* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 252 (1941a).

Distribution: Madagascar.

**Christella parasitica** *(L.) Lév.*, Flore du Kouy-Tchéou: 475 (1914–1915).

*Polypodium parasiticum* L., Species plantarum 2: 1090 (1 May 1753).
Provenance: 'Habitat in India supra arbores'. Lectotype: *P. Osbeck s.n.*, Herb. Swartz (S-PA), designated by Holttum (1974b: 141).

*Aspidium parasiticum* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 35 (1801).

*Nephrodium parasiticum* (L.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 260 (Jul. 1827).

*Dryopteris parasitica* (L.) Kuntze, Revisio generum plantarum 2: 811 (5 Nov. 1891).

*Cyclosorus parasiticus* (L.) Farw. in The American Midland Naturalist 12,8: 259 (Mar. 1931).

*Thelypteris parasitica* (L.) Fosberg in Occasional Papers of the Bernice Pauahi Bishop Museum of Polynesian Ethology and Natural History 23,2: 30 (1962).

*N. didymosorum* Parish ex Bedd., The ferns of British India: pl. 200 (1866).
Type: 'Birmah', *C.S.P. Parish s.n.* (?K, holo.).

*D. didymosora* (Parish ex Bedd.) C.Chr., Index filicum: 262 (18 Nov. 1905).

*N. tectum* Wall. ex Bedd., A supplement to the ferns of British India: 79 (1892).
Type: India, *N. Wallich 394* (K, holo.).

*T. fadenii* Fosberg & Sachet in Smithsonian Contributions to Botany 8: 9 (1972).
Type: 'Uganda, West Mengo District, Kyadondo County, Kampala, Makarere University Hill, 1 200 m', *K.E. Lye 5186* (MHU, holo.; B, BM, EA, G, GH, K000435803, MO, NY, P00482799!, US00135057, Z000002293, iso.).

Distribution: Uganda.

**Christella pseudogueinziana** *(Bonap.) J.P.Roux*, comb. nov.

*Dryopteris pseudogueinziana* Bonap. in Bulletin du Jardin Botanique de l'État à Bruxelles 4: 32 (Mar. 1914), as '*pseudogueintziana*'.
Type: Congo, 'Kitobola, 17 février 1910', *A. Flamigni s.n.* (P00482901!, holo.; P00482800!, iso.).

*Thelypteris pseudogueinziana* (Bonap.) Alston in The ferns and fern-allies of West tropical Africa, being a second edition of the Flora of West tropical Africa: 61 (Oct. 1959b), as '*pseudogueintziana*', excl. syn. *Dryopteris membranifera* C.Chr.

Distribution: Congo, Sudan.

**Christella ×varievenulosa** *(Viane) J.P.Roux*, comb. nov.

*Thelypteris ×varievenulosa* Viane in Bulletin de la Société Royale de Botanique de Belgique 118,1: 49, figs 2G, H, 3A, 4G–N, 6 (1985).
Type: 'West Africa: Ivory Coast, Mt. Tonkoui. Wet, shaded trackside at ± 900 m alt., among *Cyathea camerooniana* and *Thelypteris afra*', *R. Viane 1030* (GENT, holo.; K00435788, K000435789, iso.).

Distribution: Côte d'Ivoire.

**Christella ×wildemanii** *(H.Christ) J.P.Roux*, comb. nov.

*Dryopteris wildemanii* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 35, 36 (1909b), as '*wildemani*'.
Type: 'Bena-Dibele, 22 novembre 1905', *Flamigni 62* (not located).

*Thelypteris ×wildemanii* (H.Christ) Viane in Bulletin de la Société Royale de Botanique de Belgique 118,1: 54 (1985).

Distribution: DRC.

## CYCLOSORUS

**Cyclosorus** *Link*, Hortus regius botanicus berolinensis 2: 128 (Jul.–Dec. 1833b). Type: *Cyclosorus gogylodes* (Schkuhr) Link; *Aspidium gogylodes* Schkuhr, as '*goggilodus*'.

*Dryopteris* Adans. subgen. *Cyclosorus* (Link) C.Chr., Index filicum: xxi (10 Oct. 1906).

*Thelypteris* Schmidel subgen. *Cyclosorus* (Link) C.V.Morton in American Fern Journal 53,4: 153 (30 Dec. 1963).

**Cyclosorus glandafrus** *(Viane) J.P.Roux*, comb. nov.

*Thelypteris glandafra* Viane in Bulletin de la Société Royale de Botanique de Belgique 118,1: 42, 45, figs 1, 2A–F, 3B–E, 4B, 5 (1985).
Type: 'West Africa: Ivory Coast, Kossou, among the rocks forming the dam, together with *Thelypteris dentata*, *Pteris togoensis* and *Nephrolepis biserrata*', *R. Viane 936* (GENT, holo., 2 sheets; K000435805, iso.).

Distribution: Côte d'Ivoire.

**Cyclosorus interruptus** *(Willd.) H.Itô* in The Botanical Magazine (Tokyo) 51: 714 (20 Aug. 1937).

*Pteris interrupta* Willd., Phytographia: 13, t. 10, fig. 1 (Sep. 1794).
Type: "Habitat in India orientali", *H. Klein s.n.* (B-W 19770.1a, lecto.), notula A. Sanchez 2/2001.

*Thelypteris interrupta* (Willd.) K.Iwats. in Journal of Japanese Botany 38,10: 314 (Oct. 1963b).

*Aspidium obtusatum* Sw., Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 33 (1801).
Type: Java, *C.P. Thunberg s.n.* (BM, fragm., holo.).

*Nephrodium propinquum* R.Br., Prodromus florae Novae Hollandiae: 148 (1–7 Apr. 1810).

*Dryopteris gongylodes* (Schkuhr) Kuntze subsp. *propinqua* (R.Br.) C.Chr., Index filicum: 268 (18 Nov. 1905), as '*gongylodes*'.

*D. gongylodes* (Schkuhr) Kuntze var. *propingua* (R.Br.) Bonap. in Bulletin du Jardin Botanique de l'État à Bruxelles 4: 31 (1914), as '*gongylodes*'.

*A. unitum* Sieber ex Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 391, 392 (1858), nom. superfl., non *Aspidium unitum* (L.) Sw. (1801: 32).
Type: 'Ins. Maurit.', *F.W. Sieber*; Syn. f. 43 (B20 0069052!, B20 0069061!, syn.; K, isosyn.).

*N. unitum* (Sieber ex Mett.) Hook., Species filicum 4,14: 81 (Aug. 1862c).

*A. unitum* (L.) Sw. var. *hirsutum* Mett. in Annales Musei Botanici Lugduno-Batavi 1: 230, 231 (1863), as '*hirsuta*'.

*D. gongylodes* (Schkuhr) Kuntze, Revisio generum plantarum 2: 811 (5 Nov. 1891).

*N. unitum* (Sieber ex Mett.) R.Br. subsp. *callense* Trab., Flore analytique et synoptique de l'Algérie et de la Tunisie: 402 (1905).
Type: 'Du Lac el Hout, La Calle', *sine coll. s.n.* (not located).

*D. gongylodes* (Schkuhr) Kuntze var. *longipinnulata* Bonap. in Notes Ptéridologiques 15: 13 (25 Feb. 1924), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Afrique orientale britannique. Entre Thika et Fort Hall. Altitude de 1 200 à 1 500 mètres. Du 3 au

9 septembre 1909', *E.A. Mearns 1070* (US631106); 'Afrique orientale britannique. Environs de Saba-Saba. Altitude d'environ 1 200 mètres. Le 8 septembre 1909', *E.A. Mearns 1183* (US631226); 'Uganda. Environs de Kabula Muliro, sur le chemin d'Entebbe, Victoria Nyanza à Butiaba, Albert Nyanza; altitude de 1 110 à 650 mètres. Le 26 dècembre 1909', *E.A. Mearns 2519* (US632478, US632477); 'Uganda. Environs de Butiaba. Albert Nyanza. Altitude d'environ 650 mètres. Du 5 au 7 janvier 1910', *E.A. Mearns 2557* (US632748, US632749).

*C. venulosus* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 345 (Dec. 1953c).

*A. obtusatum* sensu Willd., Species plantarum, edn 4, 5,1: 241 (25–27 Jun. 1810).

*N. unitum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 57 (1929), quoad *Peter 7838* & *18187*, non *Polypodium unitum* L. (1759: 1326).

*C. gogylodes* sensu Alston, The ferns and fern-allies of West tropical Africa, being a second edition of the Flora of West tropical Africa: 62 (Oct. 1959b), p.p., as '*gongylodes*'.

*T. totta* sensu Schelpe in Flora zambesiaca, Pteridophyta: 198 (1970), p.p.

Chromosome number: 2n = ± 72 (Manton 1959: 80).

Distribution: Algeria, Bioko, Burundi, Diego Garcia, Ethiopia, Liberia, Madagascar, Morocco, Tanzania, Tunisia.

**Cyclosorus molundensis** *(Brause) Pic.Serm*. in Webbia 32,1: 77 (1977c).

*Dryopteris molundensis* Brause in Botanische Jahrbücher 53: 378, 379 (1915).
Type: 'Westafrika: Südkameruner Waldgebiet, Bez. Molundu, 'Bange Busch', unbewohnter Urwald zwischen Lokomo, Bumba und bange, ca. 15°15' ö L., 2°50' n. Br., 30 Jan. 1911', *G.W.J. Mildbraed 4382* (B20 0059557!, holo.; B20 0059556!, BM, fragment, iso.).

*C. striatus* (Schumach.) Copel. var. *molundensis* (Brause) Tardieu in Notulae Systematicae (Paris) 14,4: 345 (Dec. 1953c).

Distribution: Burundi, Cameroon, Central African Republic, DRC.

**Cyclosorus striatus** *(Schumach.) Ching* in Bulletin of the Fan Memorial Institute of Biology 10,5: 249 (1941a).

*Aspidium striatum* Schumach., Beskrivels af Guineeiske planter: 456 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs. Naturvidenskabelige og Mathematiske Afhandlinger 4: 230 (1829).
Type: 'Ved Whyda og Aquapim', 1784, *P.E. Isert s.n.* (C, holo.).

*Dryopteris striata* (Schumach.) C.Chr., Index filicum: 294 (18 Nov. 1905).

*Thelypteris striata* (Schumach.) Schelpe in Journal of South African Botany 31,4: 268 (Oct. 1965).

*A. grunowii* Bolle in Bonplandia 3,10: 123 (1855).
Type: "S. Fiogo, ilhas de Cabo-Verde", *S.J. Bocandé s.n*. (B20 0057584!, holo.).
Note: Lobin (1986: 150) noted that Bocandé also collected in Guinea and the collection may have been from this country rather than from the Cape Verde islands as the species does not occur here.

*Polypodium pallidivenium* Hook., Species filicum 5,17: 8 (May 1864a).
Type: Sierra Leone, *G. Mann 909* (K000435852!, holo.).

*Nephrodium pallidivenium* (Hook.) Baker in Synopsis filicum 7: 290 (4 Oct. 1867e).

*D. pallidivenia* (Hook.) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891), as '*palladivenia*'.

*A. pallidivenium* (Hook.) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).

*D. hemitelioides* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 26 (1909b).
Type: 'Boko, Janvier 1907 et Dembo, Janvier 1907', *H. Vanderyst s.n.* (syn., not located); 'Bomba, Janvier 1907', *R.P. van Tilborg s.n*. (syn., not located).

Chromosome number: n = 36 (Manton 1959: 80).

Distribution: Bioko, Burundi, DRC, Equatorial Guinea, Guinea-Bissau, Liberia, Rwanda, Sierra Leone, Sudan.

**Cyclosorus tottus** *(Thunb.) Pic.Serm*. in Webbia 23,1: 173 (20 Nov. 1968a).

*Polypodium tottum* Thunb., Prodromus plantarum capensium: 172 (1800).
Type: 'e Cap. b. Spei', *C.P. Thunberg s.n*. (UPS-Thunb 24724!, holo.).

*Thelypteris totta* (Thunb.) Schelpe in Journal of South African Botany 29,3: 91 (Jul. 1963).

*Aspidium ecklonii* Kunze in Linnaea 10: 546 (1836).
Type: 'In dumetis ad fluv. Zwartkopsrivier (distr. Uitenhage)', *C.F. Ecklon s.n*. (LZ†, syn.); "Inter Omtendo et Omsamculo in umbrodis, 400 p., 1838", *J.F. Drége s.n*. (LZ†; BM!, lecto.), designated by Roux (1986: 375).

*A. unitum* (L.) Sw. var. *glabrum* Mett. in Annales Musei Botanici Lugduno-Batavi 1: 230 (1863), as '*glabra*'.
Type: As for *Polypodium unitum* L. (1759: 1326).

Distribution: Burundi, Rwanda, South Africa.

## MACROTHELYPTERIS

**Macrothelypteris** *(H.Itô) Ching* in Acta Phytotaxonomica Sinica 8,4: 308 (Oct. 1963).

*Thelypteris* Schmidel sect. *Macrothelypteris* H.Itô in Nova flora japonica 4: 141 (1938). Type: *Thelypteris oligophlebia* Ching, now *Polystichum torresianum* Gaudich., now *Macrothelypteris torresiana* (Gaudich.) Ching.

*Thelypteris* Schmidel subgen. *Macrothelypteris* (H.Itô) A.R.Sm. in Phytologia 34,3: 233 (1976).

**Macrothelypteris rammelooi** *Pic.Serm*. in Bulletin du Jardin Botanique National de Belgique 53,1/2: 270, 272, fig. 16 (1983a).
Type: 'Rwanda, road Pindura to the border with Burundi, near the river Nyabishwati, ± 1 910 m, in swampy vegetation, 31.VII.1974', *J. Rammeloo 4188* (GENT, holo.; BR, FI-PS, LG, iso.).

Distribution: Rwanda.

**Macrothelypteris torresiana** *(Gaudich.) Ching* in Acta Phytotaxonomica Sinica 8,4: 310 (1963).

*Polystichum torresiana* Gaudich. in Freyc., Voyage autour du monde, entrepris par ordre du roi, ... exécuté sur les corvettes de S.M. l'Uranie et la Physicienne. Botanique 8: 333, 334 (27 Dec. 1828).
Type: 'In insulis Mariannis', *C. Gaudichaud-Beaupré s.n.* (G, holo.).

*Thelypteris torresiana* (Gaudich.) Alston in Lilloa 30: 111 (1960).

*Aspidium uliginosum* Kunze in Linnaea 20: 6 (1847b).
Type: Cult. Hort. Bot. Leipzig, origin Java, *sine coll. s.n*. (LZ†; BR, lecto.), designated by Morton (1973: 219).

*Dryopteris uliginosa* (Kunze) C.Chr., Index filicum. Supplementum tertium pro annis 1917–33: 100 (Oct. 1934).

*T. uliginosa* (Kunze) Ching in Bulletin of the Fan Memorial Institute of Biology 6,5: 342 (1936).

*D. lasiocarpa* Hayata in Journal of the College of Science, Imperial University of Tokyo 30: 417, 418 (1911).
Type: 'Kotosho, Feb. 1906', *G. Nakahara 994* (TI, holo.).

*T. oligophlebia* (Baker) Ching var. *lasiocarpa* (Hayata) H.Itô in Nova flora japonica 4: 144 (1938).

*Cheilanthes setigera* Blume, Enumeratio plantarum Javae 2: 138 (1828).
Type: 'Crescit in Javae montibus altis', *C.L. Blume s.n.* (L0063102, L0063156, holo.?).

*Nephrodium setigerum* (Blume) Hook. & Baker, Synopsis filicum 7: 284 (4 Oct. 1867c), p.p.

*D. setigera* (Blume) C.Chr., Index filicum: 292 (18 Nov. 1905), p.p.

*D. trichodes* Rosenst., Mededeelingen van's Rijks-Herbarium 31: 6 (1917), p.p.
Type: 'Java', *H. Zollinger 354* (L, lecto.), designated by Holttum (1974b: 127).

*Polypodium tenericaule* Wall. ex Hook. in Bulletin of Miscellaneous Information, Royal Gardens, Kew 9: 353 (1857).
Type: China, *W.T. Alexander s.n.* (K, holo.).

*Lastrea tenericaulis* (Wall. ex Hook.) T.Moore, Index filicum 2,9: 99 (1858b).

*N. tenericaule* (Wall. ex Hook.) Hook., Species filicum 4,14: 142 (Aug. 1862c), p.p., excl. pl. 269.

*N. oligophlebium* Baker in Journal of Botany, British and Foreign 13: 291 (1875a).
Type: Madagascar, *J.T. Last s.n.* (K?, holo.).

*P. oligophlebium* (Baker) Baker in Journal of Botany, British and Foreign 1891: 6 (1891b).

*M. oligophlebia* (Baker) Ching in Acta Phytotaxonomica Sinica 8,4: 309 (Oct. 1963).

Distribution: Madagascar, Réunion, South Africa (naturalised).

## MENISORUS

**Menisorus** *Alston* in Boletim da Sociedade Broteriana, sér. 2 30: 20 (1956a). Type: *Menisorus pauciflorus* (Hook.) Alston; *Meniscium pauciflorum* Hook.

**Menisorus pauciflorus** *(Hook.) Alston* in Boletim da Sociedade Broteriana, sér. 2, 30: 20 (1956a).

*Meniscium pauciflorum* Hook., Species filicum 5,18/20: 164, 165 (Jun. 1864b).
Type: Cameroon. 'Sierra de Crystal, tropical W. Africa', *G. Mann 1672* (K000378972, holo.; B20 0063054!, fragm., iso.).

*Phegopteris pauciflora* (Hook.) Mett. ex Kuhn, Filices africanae: 123 (Oct. 1868).

*Dryopteris pauciflora* (Hook.) C.Chr., Index filicum: 283 (18 Nov. 1905).

*Cyclosorus pauciflorus* (Hook.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 247 (1941a).

*Thelypteris pauciflora* (Hook.) C.F.Reed in Phytologia 17,4: 302 (1968).

*D. pauciflora* (Hook.) C.Chr. var. *pruinosa* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 12,111: 79 (25 Jun. 1934a).
Type: "D.O. Afrika: Uluguru Geb.", *J. Schlieben 3932* (B20 0063053!, holo.; B20 0063052!, B20 0063061!, iso.).

*Polypodium prionodes* C.H.Wright in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1906: 253 (1906b).
Type: 'Uganda Protectorate. West Ankole Forest, 1 530 m, on rocks in streams', *M.T. Dawe 369* (K000435848, K000435849, holo.).

Distribution: Cameroon, DRC, Sudan, Tanzania, Uganda.

## METATHELYPTERIS

**Metathelypteris** *(H.Itô) Ching* in Acta Phytotaxonomica Sinica 8,4: 305 (Oct. 1963).

*Thelypteris* Schmidel sect. *Metathelypteris* H.Itô in Nova flora Japonica 4: 137 (1938). Type: *Metathelypteris gracilescens* (Blume) Ching; *Aspidium gracilescens* Blume.

**Metathelypteris fragilis** *(Baker) Holttum* in Journal of South African Botany 40,2: 127 (1974b), subsp. **fragilis**.

*Polypodium fragile* Baker in Journal of the Linnean Society, Botany 16: 203 (1877a).
Type: Madagascar, *H. Gilpin s.n.* (K, holo.).

*Nephrodium fragile* (Baker) Baker in Annals of Botany (C. König, J. Sims, eds) 5: 322 (1891a).

*Dryopteris fragilis* (Baker) C.Chr., Index filicum: 266 (18 Nov. 1905).

*Thelypteris fragilis* (Baker) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 25 (1956a).

Distribution: Madagascar, São Tomé.

**Metathelypteris fragilis** *(Baker) Holttum* subsp. **guineensis** *Benl* in Nova Hedwigia 27,1/2: 150, fig. 3 (1976).
Type: 'Fernando Poo', *G. Benl & U. Benl No. FP 166* (M, holo; BM, FI-PS, K000435854, M, iso.).

Distribution: Bioko.

**Metathelypteris vandervekenii** *Pic.Serm.* in Bulletin du Jardin Botanique National de Belgique 53,1/2: 272, 274, fig. 17 (1983a).
Type: 'Rwanda, Préf. Cyangugu, 2 km avant Gisakura (venant de la route Butare-Cyangugu), 1 900 m, forêt de montagne à *Syzygium*, *Mimulopsis*, *Elatostema*, *Impatiens*, *Pilea*, *Chloachne*; au bod d'un ruisseau, 24.VIII.1974', *P.A.J.B. van der Veken 10938* (GENT, holo.; BR, FI-PS, iso.).

Distribution: Rwanda.

## PNEUMATOPTERIS

**Pneumatopteris** *Nakai* in The Botanical Magazine (Tokyo) 47,555: 179 (20 Mar. 1933). Type: *Pneumatopteris callosa* (Blume) Nakai; *Aspidium callosum* Blume.

**Pneumatopteris afra** *(H.Christ) Holttum* in Blumea 21,2: 306 (28 Jan. 1973).

*Dryopteris afra* H.Christ in Bulletin de la Société Botanique de France 55,2, Mémoire 8b: 107 (1908).
Type: Congo, Haut-Oubangi, *A. Chevalier 5799* (P00482904!, holo.; K000435830, P00482905!, P00482906!, iso.).

*Cyclosorus afer* (H.Christ) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 242 (1941a).

*Thelypteris afra* (H.Christ) C.F.Reed in Phytologia 17,4: 258 (1968).

*Nephrodium abruptum* Hook., Species filicum 4,14: 77, 78, pl. 241.B (Aug. 1862c).

*D. dewevrei* C.Chr. ex Bonap. in Notes Ptéridologiques 14: 207 (23 Nov. 1923a).
Type: 'Gabon. Mayombe Bayata. Tchibanga. Le 2 mai 1914', *G.M.P.C. le Testu 1719* (P00482907!, P00482908!, P00482909!, holo.).

*C. dewevrei* (C.Chr. ex Bonap.) C.D.Adams & Alston in Bulletin of the British Museum (Natural History). Botany 1,6: 157 (Aug. 1955).

*N. pennigerum* sensu Baker in Synopsis filicum, edn 2: 292 (Oct. 1874a).

Chromosome number: n = 72 (Manton 1959: 80).

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Ghana, Guinea, Liberia, Nigeria, Príncipe, São Tomé, Sierra Leone, Sudan, Tanzania, Uganda.

**Pneumatopteris blastophora** *(Alston) Holttum* in Journal of South African Botany 40,2: 156 (1974b).

*Cyclosorus blastophorus* Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 12 (1956a).
Type: 'S. Nigeria: High forest in ravine, R. Ata, below Koloishe, Ogoja Province, 4000 ft', *H.J. Savory & R.W.J. Keay FHI 25062* (BM, holo.).

*Thelypteris blastophora* (Alston) C.F.Reed in Phytologia 17,4: 264 (1968).

*Abacopteris letouzeyi* Tardieu in Notulae Systematicae (Paris) 16,1/2: 202, pl. 1, t. 5, 6 (Oct. 1960c).
Type: 'Cameroun: Versant sud du Mont Koupé, vers 1 200 m', *R. Letouzey 405* (P00482764!, holo.; P00482765!, P00482766!, iso.).

*C. patens* sensu Alston, The ferns and fern-allies of West tropical Africa, being a second edition of the Flora of West tropical Africa: 62 (1959b), p.p., non (Fée) Copel. (1947: 143).

Distribution: Bioko, Cameroon, Ghana, Liberia, Nigeria, Uganda.

**Pneumatopteris comorensis** *Holttum* in Journal of South African Botany 40,2: 160, 161 (1974b).
Type: 'Comoro Islands, Johanna, 200–800 m, 6/1875', *J.M. Hildebrandt 1782* (K000435822, holo.; B20 0069478!, B20 0069479!, B20 0069480!, B20 0069481!, FI, L0052260, iso.).

Distribution: Comoro Isl.

**Pneumatopteris humbertii** *Holttum* in Journal of South African Botany 40,2: 158 (1974b).
Type: Madagascar, partie occidentale du Massif de Marojejy, 1 400 m, *H. Humbert 31679* (K, holo.; P00482768!, iso.).

Distribution: Madagascar.

**Pneumatopteris oppositifolia** *(Hook.) Holttum* in Journal of South African Botany 40,2: 157 (1974b).

*Polypodium oppositifolium* Hook., Species filicum 5,17: 8 (May 1864a).
Type: 'Peak of island of St Thomas, W. trop. Africa, alt. 5000 feet', *G. Mann s.n.* (K, holo.).

*Phegopteris oppositifolia* (Hook.) Kuhn, Filices africanae: 123 (Oct. 1868).

*Goniopteris oppositifolia* (Hook.) J.Sm., Historia filicum: 192 (Oct.–Dec. 1875).

*Dryopteris oppositifolia* (Hook.) C.Chr., Index filicum: 281 (18 Nov. 1905).

*Cyclosorus oppositifolius* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 346 (Dec. 1953c).

Distribution: Annobon, Bioko, São Tomé.

**Pneumatopteris prismaticus** *(Desv.) Holttum* in Journal of South African Botany 40,2: 160 (1974b).

*Nephrodium prismaticum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 256, 257 (Jul. 1827).
Type: 'Habitat in insula Mauritii', *sine coll. s.n.* (P00482769!, holo.).

*Dryopteris prismatica* (Desv.) C.Chr. in Dansk Botanisk Arkiv 7: 202 (Oct. 1932b).

*Cyclosorus prismaticus* (Desv.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 248 (1941a).

*Thelypteris prismatica* (Desv.) Schelpe in Boletim da Sociedade Broteriana, sér. 2, 41: 217 (1967).

*Aspidium caudiculatum* Sieber ex Kunze in Linnaea 24: 280 (1851a).
Type: 'Habitat in insula Mauritii', *F.W. Sieber 47* (B20 0053277!, B20 0053280!, B20 0053283!, B20 0053284!; C, K, P00477810!, P00477811!, P00477812!, P00477813!, P00477814!, iso.).

*N. caudiculatum* (Sieber ex Kunze) C.Presl, Epimeliae botanicae: 46 (1851).

*D. caudiculata* (Sieber ex Kunze) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 25 (Feb. 1932a).

*T. caudiculata* (Sieber ex Kunze) C.F.Reed in Phytologia 17,4: 266 (1968).

*A. truncatum* sensu Kuhn, Filices africanae: 143 (Oct. 1868).

Distribution: Malawi, Mauritius, Réunion.

**Pneumatopteris remotipinna** *(Bonap.) Holttum* in Journal of South African Botany 40,2: 159 (1974b).

*Dryopteris remotipinna* Bonap. in Notes Ptéridologiques 5: 57, 58 (10 Dec. 1917d).
Type: Madagascar. 'Régions floristiques de l'Est et du Centre. Forêt d'Analamazoatra. Vers 800 mètres d'altitude. Dècembre', *H. Perrier de la Bâthie 6072* (P?, holo.; P00482770!, P00482771!, P00483241!, P00483242!, iso.).

*Cyclosorus remotipinnus* (Bonap.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 248 (1941a).

*Thelypteris remotipinna* (Bonap.) C.F.Reed in Phytologia 17,4: 308 (1968).

*D. longifolia* Bonap. in Notes Ptéridologiques 5: 55, 56 (10 Dec. 1917d), non (Fée) Hieron. (1907: 351).
Type: Madagascar. 'Région floristique du Sambirano. Province d'Analalava. Environs du Mont Trilodriana. Rocailles humides. Gneiss et grés liasiques. Novembre 1907', *H. Perrier de la Bâthie 7665* (P00482772!, P00482773!, P00482774!, holo.).

*D. sambiranensis* C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 26 (Feb. 1932a), nom. nov. for *Dryopteris longifolia* Bonap., non (Fée) Hieron. (1907: 351).

*C. sambiranensis* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 248 (1941a).

*T. sambiranensis* (C.Chr.) C.F.Reed in Phytologia 17,4: 311 (1968).

Distribution: Madagascar.

**Pneumatopteris subpennigera** *(C.Chr.) Holttum* in Blumea 21,2: 304 (1973).

*Dryopteris subpennigera* C.Chr. in Dansk Botanisk Arkiv 7: 52, pl. 12, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Mt. Tsaratanana: forêt à sous-bois herbacé 1500 m. alt. dans endroits humides, Octobre 1922', *H. Perrier de la Bâthie 15620* (P00482775!, holo.; BM, P00482776!, P00482777!, iso.).

*Cyclosorus subpennigerus* (C.Chr.) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 249 (1941a).

*Thelypteris subpennigera* (C.Chr.) C.F.Reed in Phytologia 17,4: 318 (1968).

*D. albidipilosa* Bonap. in Notes Ptéridologiques 15: 9, 10 (25 Feb. 1924).
Type: 'Afrique orientale britannique. Environs de Thika. Altitude de ± 1 350 mètres. Du 6 au 7 septembre 1909', *E.A. Mearns 1123* (US631163, US631164, holo.; P00482778!, P00482779!, holo.).

*C. albidipilosus* (Bonap.) Tardieu in Notulae Systematicae (Paris) 14,4: 345 (Dec. 1953c).

Distribution: Comoro Isl., DRC, Madagascar.

**Pneumatopteris unita** *(Kunze) Holttum* in Blumea 21,2: 304 (28 Jan. 1973).

*Gymnogramma unita* Kunze in Linnaea 18: 115 (1844b). Type: 'In sylvis umbrosis humidissimis, inprimis ad catarractam inter Omfondi et Tagela portus Natalensis, Febr.–Apr. 1842', *W. Gueinzius s.n.* (missing).

*Phegopteris unita* (Kunze) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 306 (1858).

*Polypodium unitum* (Kunze) Hook., Species filicum 5,17: 5 (May 1864a), non L. (1759: 1326).

*Goniopteris unita* (Kunze) J.Sm., Historia filicum: 192 (Oct.–Dec. 1875).

*Aspidium costulare* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 65 (Aug.–Sep. 1879).

*Nephrodium costulare* Baker in Journal of the Linnean Society, Botany 16: 203 (1877a). Type: Madagascar, *H. Gilpin s.n*. (K00045819, holo.).

*Dryopteris costularis* (Baker) C.Chr., Index filicum: 258 (18 Nov. 1905).

*Cyclosorus costularis* (Baker) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 243 (1941a).

*Goniopteris madagascariensis* Fée, Cinquième mémoires sur la famille des fougères: 251 (1852). Type: 'Habitat in insulâ Madagascariensi', *J. Goudot s.n.* (P00482780, holo.; G, iso.).

*C. madagascariensis* (Fée) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 246 (1941a).

*D. madagascariensis* (Fée) C.Chr., Index filicum: 276 (18 Nov. 1905).

*Thelypteris madagascariensis* (Fée) Schelpe in Journal of South African Botany 31,4: 267 (Oct. 1965).

*A. malagassicum* Kuhn, Filices africanae: 136 (Oct. 1868), nom. nov. for *Goniopteris madagascariensis* Fée (1852: 251), non *Aspidium madagascariense* Fée (1952: 296). Type: as for *Goniopteris madagascariensis* Fée.

*A. microsorum* Kuhn, Filices africanae: 136 (Oct. 1868), nom. nov. for *Nephrodium microcarpum* Fée (1852: 305, 307). Type: as for *Nephrodium microcarpum* Fée.

*Goniopteris patens* Fée, Cinquième mémoires sur la famille des fougères: 253 (1852). Type: 'Port Natal', *W. Guenzius s.n*. (missing).

*N. patens* (Fée) J.Sm., Historia filicum: 208 (Oct.–Dec. 1875), non (Sw.) Desv. (1827: 258).

*C. patens* (Fée) Copel., Genera filicum: 143 (1947).

*Goniopteris silvatica* Pappe & Rawson, Synopsis filicum Africae australis: 39 (Jan.–Jul. 1858), nom. nov. superfl.

*D. silvatica* (Pappe & Rawson) C.Chr., Index filicum: 292 (18 Nov. 1905).

*Cyclosorus silvaticus* (Pappe & Rawson) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 249 (1941a).

*T. silvatica* (Pappe & Rawson) C.F.Reed in Phytologia 17,4: 313 (1968).

*D. silvatica* (Pappe & Rawson) C.Chr. var. *glandulifera* Bonap. in Notes Ptéridologiques 5: 58 (10 Dec. 1917d). Type: Madagascar. 'Région floristique du centre. Massif de Manongarivo. Endroits humides. Ravin. 1 400 mètres d'altitude. Mai 1909', *H. Perrier de la Bâthie 7661* (P00482783!, P00482784!, holo.; P00482781!, P00482782!, iso.).

*D. silvatica* (Pappe & Rawson) C.Chr. var. *amplectens* C.Chr. in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 9: 176 (1924). Type: 'Kenia occid.: regio bambusina inferior, in sylva bambusina ad rivulum, ± 1500 m, 27 Jan. 1922', *R.E. Fries & T.C.E. Fries 1217* (?BM, holo.).

*A. cucullatum* Blume, Enumeratio plantarum Javae 2: 151 (15 Dec. 1828). Type: Crescit in saxosis calcareis insularum Javae ac Nusae Kambangan (not located).

*D. cucullata* (Blume) H.Christ in The Philippine Journal of Science 2: 194 (1907b).

*D. gladiata* C.Chr. in Arkiv för Botanik 14,19: 4, t. 1, figs 4, 8 (24 Mar. 1916). Type: 'Madagascaria: Moramanga, in silvis primaevis, 1.10.1912', *B.T. Palm & K.R. Afzelius 354* (BM, holo.).

*N. patens* (Fée) J.Sm. var. *madagascariense* Baker in Journal of the Linnean Society. Botany 16: 202 (1877a). Type: Madagascar, *H. Gilpin s.n*. (K000435798, holo.).

Chromosome number: n = ± 36 (Manton 1959: 80).

Distribution: Bioko, Burundi, DRC, Ethiopia, Kenya, Liberia, Madagascar, Malawi, Mozambique, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Pneumatopteris usambarensis** *Holttum* in Journal of South African Botany 40,2: 159 (1974b). Type: 'Tanzania, E. Usambara Mts. 1 000 m', *R.B. Faden et al. 70/293* (EA, holo., one frond on 7 sheets).

*Nephrodium truncatum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 59 (1929), non (Poir.) C.Presl (1836: 81).

Distribution: Kenya, Tanzania.

**Pneumatopteris venulosa** *(Kuntze) Holttum* in Journal of South African Botany 40,2: 159 (1974b).

*Dryopteris venulosa* Kuntze, Revisio generum plantarum 2: 814 (5 Nov. 1891), nom. nov. for *Nephrodium venulosum* Hook., non Desv. (1827: 255).

*Thelypteris venulosa* (Kuntze) C.F.Reed in Phytologia 17,4: 323 (1968).

*Nephrodium venulosum* Hook., Species filicum 4,14: 71, 72 (Aug. 1862c), non Desv. (1827: 255). Type: 'Fernando Po', *G. Mann s.n*. (K000435831, K000435832, holo.).

*Aspidium elatum* Mett. ex Kuhn, Filices africanae: 131 (Oct. 1868), non Bojer (1837: 390). Type: 'Ad flumen Gaboon', *Ld. Jadin s.n*. (not located); 'Ins. Fernando Po', *T. Vogel 62, 124*, *G. Mann 140*, *C. Barter s.n.* (not located); 'Ins. Principis', *C. Barter 1924* (not located).

*D. elata* (Mett. ex Kuhn) C.Chr., Index filicum: 263 (1905).

*Cyclosorus elatus* (Mett. ex Kuhn) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 13 (1956a).

*T. elata* (Mett. ex Kuhn) Schelpe in Journal of South African Botany 31,4: 265 (Oct. 1965).

Distribution: Annobon, Bioko, Equatorial Guinea, São Tomé.

## PSEUDOCYCLOSORUS

**Pseudocyclosorus** *Ching* in Acta Phytotaxonomica Sinica 8,4: 322, 323 (1963), excl. *Pseudocyclosorus ciliatus* (Benth.) Ching & *P. caudipinna* Ching. Type: *Pseudocyclosorus tylodes* (Kunze) Ching; *Aspidium tylodes* Kunze, as '*xylodes*'.

**Pseudocyclosorus camerounensis** *Holttum* in Journal of South African Botany 40,2: 137, 138 (1974b). Type: 'Cameroun, Djuttitsa, 2 000 m', *Meurillon CNAC 726* (P, holo.; K000435813, iso.).

Distribution: Cameroon.

**Pseudocyclosorus johannae** *Holttum* in Journal of South African Botany 40,2: 138 (1974b). Type: 'Johanna Island, 24 March 1877', *C.W. Bewsher 24* (K000435809, K000435810, holo.).

Distribution: Johanna Isl.

**Pseudocyclosorus pulcher** *(Bory ex Willd.) Holttum* in Journal of South African Botany 40,2: 138 (1974b).

*Aspidium pulchrum* Bory ex Willd., Species plantarum, edn 4, 5,1: 253, 254 (25–27 Jun. 1810).
Type: "Habitat in insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19787!; P00482910!, P00482911!, iso.).

*Nephrodium pulchrum* (Bory ex Willd.) Desv. in Mémoires de la Société Linnéenne de Paris 6: 256 (Jul. 1827).

*Lastrea pulchra* (Bory ex Willd.) C.Presl, Tentamen pteridographiae: 75 (Oct. 1836).

*N. longicuspe* Baker in Journal of the Linnean Society, Botany 16: 202, 203 (1877a).
Type: Madagascar, Antanarivo, *H. Gilpin s.n*. (K000435807, K000425808, holo.).

*A. longicuspe* (Baker) Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 65 (Aug.–Sep. 1879).

*Dryopteris longicuspis* (Baker) C.Chr., Index filicum: 275 (18 Nov. 1905).

*Thelypteris longicuspis* (Baker) Schelpe in Journal of South African Botany 31,4: 262 (Oct. 1965).

*L. longicuspis* (Baker) Pic.Serm. in Webbia 23,1: 175 (20 Nov. 1968a).

*N. zambesiacum* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 318 (Aug. 1891a).
Type: 'Zambesi Highlands', *J. Buchanan s.n*. (K000435811, K000435812, holo.).

*A. zambesiacum* (Baker) Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).

*D. zambesiaca* (Baker) C.Chr., Index filicum: 301 (18 Nov. 1905).

*T. zambesiaca* (Baker) Tardieu in Notulae Systematicae (Paris) 14,4: 344 (Dec. 1953c).

*D. aequibasis* C.Chr. in Notes Ptéridologiques 16: 162 (1925b).
Type: Madagascar. 'Règion floristique du Centre. Environs de Tananarive, vers 1 400 mètres d'altitude. Bois humides et ombragés. Juillet 1914', *H. Perrier de la Bâthie 7580* (BM, holo.; P00482785!, P00482786!, P00482787!, iso.).

*T. zambesiaca* (Baker) Tardieu var. *aequibasis* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 280 (May 1958b).

*D. patens* sensu Tardieu in Tardieu-Blot *et al*., Études Camerounaises 2,25/26: 91 (1950), non (Sw.) Kuntze (1891: 813).

*N. prolixum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 56 (1929), quoad *Peter 15864*.

Distribution: Angola, Bioko, Burundi, Cameroon, Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Nigeria, Réunion, Rwanda, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

## PSEUDOPHEGOPTERIS

**Pseudophegopteris** *Ching* in Acta Phytotaxonomica Sinica 8,4: 313 (Oct. 1963). Type: *Pseudophegopteris pyrrhorachis* (Kunze) Ching; *Polypodium pyrrhorachis* Kunze.

**Pseudophegopteris aubertii** *(Desv.) Holttum* in Blumea 17,1: 18 (1969).

*Polypodium aubertii* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 243 (Jul. 1827).
Type: "Bourbon", *sine coll. s.n*. (P00482760!, holo.).

*Macrothelypteris aubertii* (Desv.) Pic.Serm. in Webbia 23,1: 177, fig. 2 (20 Nov. 1968a).

*Phegopteris helliana* Fée, Cinquième mémoires sur la famille des fougères: 247 (1852).
Type: 'Habitat in insulâ Borboniâ', *de Hell s.n.* (P?, iso.).

*Polypodium sharpeanum* Baker in Journal of Botany, British and Foreign 1880,9: 369, 370 (1880b).
Type: Madagascar, 'Between Tamatave and Antananarivo', *L. Kitching s.n*. (K000435858, holo.).

*Dryopteris sharpeana* (Baker) C.Chr., Index filicum: 292 (18 Nov. 1905), as '*sharpiana*'.

Distribution: Madagascar, Réunion.

**Pseudophegopteris cruciata** *(Willd.) Holttum* in Blumea 17,1: 21 (1969).

*Aspidium cruciatum* Willd., Species plantarum, edn 4, 5,1: 278 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19821!, holo.; P00482761!, P00482762!, iso.).

*Phegopteris cruciata* (Willd.) Mett. ex Kuhn, Filices africanae: 122 (Oct. 1868).

*Dryopteris cruciata* (Willd.) C.Chr., Index filicum: 259 (18 Nov. 1905).

*Thelypteris cruciata* (Willd.) Tardieu in Notulae Systematicae (Paris) 15,1: 91 (1955d).

*Macrothelypteris cruciata* (Willd.) Pic.Serm. in Webbia 23,1: 179, fig. 3 (20 Nov. 1968a).

*Phegopteris montbrisoniana* Fée, Cinquième mémoires sur la famille des fougères: 247, 248 (1852).
Type: 'Habitat in insulâ Bourboniâ', *De Montbrison s.n*. (P?, holo.).

*Phegopteris straminea* Fée, Cinquième mémoires sur la famille des fougères: 246 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n.* (FI, iso.).

*Nephrodium subglandulosum* Baker in Synopsis filicum 7: 285 (4 Oct. 1867e).
Type: 'Bourbon', *D. Vieillard & E.F. Deplanche s.n*. (K, holo.).

*D. subglandulosa* (Baker) Kuntze, Revisio generum plantarum 2: 813 (5 Nov. 1891).

*Polypodium sessilifolium* Hook., Species filicum 4,15/16: 251, 252 (1863), nom. illeg., non Hook. (1863: 168), nec Liebm. (1849: 40).
Type: 'Bourbon', *D. Carmichael s.n*. (not located); 'Mauritius', *W. Bojer s.n*. (K000435856, syn.).

*Polypodium bojeri* Hook. in Synopsis filicum 8: 311 (8 Nov. 1867f), nom. nov. for *Polypodium sessilifolium* Hook. (1863: 168), non Liebm. (1849: 40), nec Hook. (1863: 251).

Chromosome number: n = 62 (Manton 1959: 80).

Distribution: Bioko, Cameroon, Congo, Ghana, Kenya, Liberia, Madagascar, Réunion, Tanzania, Uganda.

**Pseudophegopteris dianae** *(Hook.) Holttum* in Blumea 17,1: 21 (1969).

*Polypodium dianae* Hook., Species filicum 4,15/16: 234, 235 (Aug. 1863).
Type: 'St Helena', *H. Cuming 423* (K000435860, lecto.), designated by Holttum (1969: 21).

*Dryopteris dianae* (Hook.) C.Chr., Index filicum: 262 (18 Nov. 1905).

*Polypodium molle* Roxb. in Tracts relative to the island of St Helena: 318 (Jan. 1816), nom. illeg. [McNeill *et al.* (2006) Art. 53.1], non Jacquin [1789] (1791: 188).
Type: 'St Helena, 1813–1814', *J. Roxburgh s.n*. (not located).

*Phegopteris mollis* (Roxb.) Kuhn, Filices africanae: 123 (Oct. 1868), non Mett. (1864a: 242).

Distribution: St Helena.

**Pseudophegopteris henriquesii** *(Baker) Holttum* in Blumea 17,1: 15 (1969).

*Polypodium henriquesii* Baker in Boletim da Sociedade Broteriana 4: 154, t. 1 (1886e).
Type: São Tomé. 'Nova Moka (950–1 250m), June 1885', *A. Moller 45* (K000435861, holo.; COI, iso.).

*Dryopteris henriquesii* (Baker) C.Chr., Index filicum: 270 (18 Nov. 1905).

*Thelypteris henriquesii* (Baker) Tardieu in Notulae Systematicae (Paris) 14,4: 344 (Dec. 1953c).

*Macrothelypteris henriquesii* (Baker) Pic.Serm. in Webbia 23,1: 179 (20 Nov. 1968a).

Distribution: São Tomé.

## SPHAEROSTEPHANOS

**Sphaerostephanos** *J.Sm. ex Hook.*, Genera filicum: t. 24 (1838). Type: *Sphaerostephanos asplenioides* J.Sm. ex Hook.

**Sphaerostephanos arbuscula** *(Willd.) Holttum* in Journal of South African Botany 40,2: 164 (1974b), subsp. **arbuscula**.

*Aspidium arbuscula* Willd., Species plantarum, edn 4, 5,1: 233 (25–27 Jun. 1810).
Type: "Habitat in insula Mauritii", *J.B.G.M. Bory de St.-Vincent s.n*. (B-W 19763!, holo.; P00482767!, iso.).

*Nephrodium arbuscula* (Willd.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 253 (Jul. 1827).

*Dryopteris arbuscula* (Willd.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Cyclosorus arbusculus* (Willd.) Ching in Bulletin of the Fan Memorial Institute of Biology 8,4: 194 (1938a).

*Thelypteris arbuscula* (Willd.) K.Iwats. in Acta Phytotaxonomica et Geobotanica 21,5/6: 170 (1965).

*N. hookeri* Wall. ex Houlston & T.Moore, The Gardeners' Magazine of Botany, Horticulture, Foriculture, and Natural Science 3: 294 (1851).
Type: Cult. Originally from India or Mauritius (BM, holo.).
Note: for typification, also see *Aspidium hookeri* below.

*A. hookeri* Wall. ex Hook. in Hooker's Icones Plantarum: 10, pl. 992 (1854e), non Sweet (1830: 579).
Type: S. India, Dindigal Herb. Wight Crypt. 116; *N. Wallich* cat.: 64, no. 338 (K, holo.).

Distribution: Madagascar, Mauritius, Réunion.

**Sphaerostephanos arbuscula** *(Willd.) Holttum* subsp. **africanus** *Holttum* in Journal of South African Botany 40,2: 165 (1974b).
Type: 'Kenya, Kwale Distr., Shimba Hills, 300 m', *R.B. Drummond & W.B. Hemsley 1203* (K, holo.; NBG 0208244-1, NBG0208244-2, iso.).

Distribution: Kenya, Tanzania.

**Sphaerostephanos elatus** *(Bojer) Holttum* in Journal of South African Botany 40,2: 167 (1974b), subsp. **elatus**.

*Aspidium elatum* Bojer, Hortus mauritianus: 390 (1837).
Type: 'Ile Maurice', *W. Bojer s.n*. (W, holo.).

*Nephrodium elatum* Bojer ex Baker in Synopsis filicum, 2nd edn: 502 (Oct. 1874a), non Baker (1867e: 298).

*N. mauritianum* Fée, Cinquième mémoires sur la famille des fougères: 308 (1852), non Desv. (1827: 252).
Type: 'Habitat in insulâ Mauritii', *De Montbrison s.n*. (not located).

*A. mauritianum* (Fée) Kuhn, Filices africanae: 136 (Oct. 1868), non Desv. (1811: 320).

*N. elatum* Bojer ex Baker var. *mauritianum* (Fée) Baker, Flora of Mauritius and the Seychelles: 499 (2 Aug. 1877b).

*Cyclosorus mauritianus* (Fée) Ching in Bulletin of the Fan Memorial Institute of Biology 10,5: 246 (1941a).

*Dryopteris mauritiana* C.Chr., Index filicum: 277 (18 Nov. 1905), nom. nov., non *Nephodium mauritianum* Fée (1852: 308), nec Desv. (1827: 252).

*Thelypteris mauritiana* (C.Chr.) C.F.Reed in Phytologia 17,4: 291 (1968).

*A. procerum* Bojer ex Kuhn, Filices africanae: 139 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*N. procerum* (Bojer) Baker in Synopsis filicum, edn 2: 502, 503 (Oct. 1874a), non Don (1825: 6).
Type: 'Bourbon', *W. Bojer s.n*. (K, holo.).

*A. maximum* Bojer ex Baker in Synopsis filicum, edn 2: 502 (Oct. 1874a).
Type: Mauritius, *W. Bojer s.n*. (K, holo.).

Distribution: Madagascar, Rodrigues Isl.

**Sphaerostephanos elatus** *(Bojer) Holttum* subsp. **thomensis** *Holttum* in Journal of South African Botany 40,2: 167 (1974b).
Type: 'San Tomé, 1885', *A. Moller s.n* (P, holo.).

*Thelypteris mauritiana* (C.Chr.) C.F.Reed subsp. *thomensis* (Holttum) Viane in Bulletin de la Société Royale de Botanique de Belgique 118,1: 54 (1985).

Distribution: São Tomé.

**Sphaerostephanos subtruncatus** *(Bory) Holttum* in Kew Bulletin 26,1: 80 (1971a).

*Polypodium subtruncatum* Bory in Voyage aux Indes Orientales. Botanique 2,1: 32 (24 May 1833).
Type: India, Madura, Mts du Dendigall, 1831, *C.P. Bélanger s.n*. (P, holo.).

*Dryopteris mauritiana* C.Chr. var. *gardineri* C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 413 (Nov. 1912).
Type: 'Silhouette, Aug, 2, 1908', *J.S. Gardiner s.n*. (K000435833, K000435834, K000435835, K000435836, holo.).

Distribution: Seychelles (Silhouette Isl.).

**Sphaerostephanos unitus** *(L.) Holttum* in Journal of South African Botany 40,2: 165 (1974b).

*Polypodium unitum* L., Systema naturae, edn 10, 2: 1326 (May–Jun. 1759), excl. syn.
Provenance: 'Habitat [in Indiis.] Sp. pl., edn 2, 2: 1548 (1763)'. Lectotype: Herb. Linn. No. 1251.21 (LINN), designated by Holttum (1974b: 165).

*Aspidium unitum* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 32 (1801).

*Nephrodium unitum* (L.) R.Br., Prodromus florae Novae Hollandiae: 148 (1–7 Apr. 1810).

*Polystichum unitum* (L.) Gaudich., Voyage autour du monde, entre pris par ordre du roi, ... exécuté sur les corvettes de S.M. l'Uranie et la Physicienne 8: 325, 326 (27 Dec. 1828), excl. syn. *Aspidium propinquum* R.Br. & *Tectaria serrata* Cav.

*Dryopteris unita* (L.) Kuntze, Revisio generum plantarum 2: 811 (5 Nov. 1891).

*Cyclosorus unitus* (L.) Ching in Bulletin of the Fan Memorial Institute of Biology 8,4: 192 (1938a).

*Thelypteris unita* (L.) C.V.Morton in American Fern Journal 49,3: 113 (29 Sep. 1959a).

*N. insculptum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 254 (Jul. 1827).
Type: 'Crescit in insula Mascareignee et Africa occidentali (in Barbaria)', *sine coll. s.n*. (P, holo.).

*A. cucullatum* Blume, Enumeratio plantarum Javae 2: 151 (15 Dec. 1828).
Type: Java, *C.L. von Blume s.n*. (L, holo.).

*N. cucullatum* (Blume) Baker in Synopsis filicum 7: 290 (4 Oct. 1867e).

*N. haenkeanum* C.Presl, Epimeliae botanicae: 46 (1851). Type: 'Habitat in insulis Marianis', *T. Haenke s.n*. (PRC, holo.).

*A. haenkeanum* (C.Presl) E.Fourn., Annales des Sciences Naturelles, ser. 5, 18: 298 (1873).

*D. haenkeana* (C.Presl) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*C. haenkeanus* (C.Presl) Ching in Bulletin of the Fan Memorial Institute of Biology 8,4: 194 (1938a).

*T. haenkeana* (C.Presl) C.F.Reed in Phytologia 17,4: 281 (1968).

*N. leuconeuron* Fée, Cinquième mémoires sur la famille des fougères: 306, 307, t. 18C, fig. 3 (1852). Type: 'Habitat in insulâ Borboniâ', *Olivier s.n*. (not located).

*A. leuconeuron* (Fée) Kuhn, Filices africanae: 136 (Oct. 1868).

*D. leuconeura* (Fée) Nakai, The Botanical Magazine (Tokyo) 47,555: 180 (1933).

*T. leuconeuron* (Fée) Schelpe in Journal of South African Botany 31,4: 266 (Oct. 1965), excl. syn. *Nephrodium mauritianum* Fée.

*N. microcarpum* Fée, Cinquième mémoires sur la famille des fougères: 307 (1852), as '*microcarpon*'. Type: 'Habitat in insulâ Borboniâ', *Olivier s.n.* (not located).

*N. plectochlaena* Fée, Cinquième mémoires sur la famille des fougères: 307 (1852). Type: 'Habitat in insulâ Borboniâ', *De Hell s.n.* (not located).

Distribution: Madagascar, Mauritius (Mahé, Silhouette Isl., Long Isl.), Rodriguez, Réunion, Rodrigues Isl., Seychelles, Tanzania.

## STEGNOGRAMMA

**Stegnogramma** *Blume*, Enumeratio plantarum Javae 2: 172 (15 Dec. 1828), emend. Iwatsuki (1963a: 112–126). Type: *Stegnogramma aspidioides* Blume.

*Leptogramma* J.Sm. in Journal of Botany, British and Foreign 4: 51, 52 (1842a). Type: *Leptogramma totta* (Schltdl.) J.Sm.; *Gymnogramma totta* Schltdl., nom. nov. for *Polypodium tottum* Willd., non Thunb. (1800: 172).

*Stegnogramma* Blume sect. *Leptogramma* (J.Sm.) K.Iwats. in Acta Phytotaxonomica et Geobotanica 19,4/6: 115 (1963a).

**Stegnogramma pozoi** *(Lag.) K.Iwats*. in Acta Phytotaxonomica et Geobotanica 19,4/6: 124 (1963a).

*Hemionitis pozoi* Lag., Genera et species plantarum novarum: 33 (Jun.–Dec. 1816). Type: Northern Spain, *D.G. del Pozo s.n*. (S-PA, holo.).

*Gymnogramma pozoi* (Lag.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 216 (Jul. 1827), as '*posoi*'.

*Ceterach pozoi* (Lag.) A.Braun ex Milde in Botanische Zeitung (Berlin) 24,40: 310 (5 Oct. 1866).

*Pleurosorus pozoi* (Lag.) Trevis. in Atti della Società Italiana di Scienze Naturali 17: 256 [1874] (1875).

*Thelypteris pozoi* (Lag.) C.V.Morton in Bulletin de la Société Botanique de France 106,5/6: 234 (1959b).

*Leptogramma pozoi* (Lag.) Heywood in Feddes Repertorium 64,1: 19 (1961).

*Polypodium tottum* Willd., Species plantarum, edn 4, 5,1: 201 (25–27 Jun. 1810), non Thunb. (1800: 172). Type: "Habitat ad Cap. b. spei", *Elector Saxoniae* (B-W 19697-01 0, holo.).

*Gymnogramma totta* (Willd.) Schltdl., Adumbrationes plantarum 1: 15, pl. 6 (May 1825a). Type: 'Crescit ad Promontorium bonae spei', *J.L.L. Mund & L. Maire s.n*. (HAL?, holo.).

*Grammitis totta* (Willd.) C.Presl, Tentamen pteridographiae: 209 (Oct. 1836).

*Leptogramma totta* (Willd.) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 52 (1842a).

*Phegopteris totta* (Willd.) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 2,2: 302, 303 (1858).

*Aspidium totta* (Willd.) Engl., Über die Hochgebirgsflora der tropischen Afrika: 99 (1 Mar. 1892).

*Nephrodium tottum* (Willd.) Diels in Die natürlichen Pflanzenfamilien 1,4: 170 (Aug. 1899b).

*Dryopteris totta* (Willd.) Masam. in Memoires of the Faculty of Science and Agriculture, Taihoku Imperial University 11,4: 58 (1934).

*Lastrea totta* (Willd.) Ohwi in Bulletin of the National Science Museum, Tokyo 3,2: 98 (Sep. 1956).

*Acrostichum pilosiusculum* Wikstr. in Kongliga Svenska Vetenskaps Academiens Handlingar 1825: 439 (1826). Type: 'Hab. in Madeira', *F. Masson s.n*. (BM, holo.).

*Leptogramma pilosiuscula* (Wikstr.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 17 (1956a).

*Polypodium africanum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 239 (Jul. 1827), nom. nov. for *Polypodium tottum* Willd., non Thunb. (1800: 172). Type: "Habitat ad Cap. b. spei", *sine coll. s.n*. (B-W 19697, holo.).

*D. africana* (Desv.) C.Chr., Index filicum: 251 (2 Oct. 1905), p.p.

*Leptogramma africana* (Desv.) Nakai ex T.Mori, An enumeration of plants hitherto known from Corea: 13 (Apr.–Aug. 1922).

*Lastrea africana* (Desv.) Ching in Contributions from the Biological Laboratory of the Science Society of China 9: 36 (1933c).

*Gymnogramma lowei* Hook. & Grev., Icones filicum 1,5: pl. 89 (Sep.–Dec. 1828b). Type: Madeira, *R.T. Lowe s.n*. (E, holo.).

*Polypodium eliasii* Sennen & Pau in Bulletin de l'Academie Internationale de Géographie Botanique, Le Mans 1910: 94 (1910), nom. nud. Type: unknown to current author.

Distribution: Algeria, Bioko, Cameroon, Comoro Isl., Ethiopia, Kenya, Madagascar, Malawi, Morocco, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

See Plate 8C.

## THELYPTERIS

**Thelypteris** *Schmidel*, Icones plantarum, ed. Keller 3: 45, pl. 11, 13, figs 4, 5 (18 Oct. 1763), nom. cons. Type: *Acrostichum thelypteris* L. (now *Thelypteris palustris* Schott).

**Thelypteris confluens** *(Thunb.) C.V.Morton* in Contributions from the United States National Herbarium 38,2: 71 (1967).

*Pteris confluens* Thunb., Prodromus plantarum capensium: 171 (1800). Type: 'e Cap b. Spei', *C.P. Thunberg s.n*. (UPS-Thunb 24904!, holo.).

*Aspidium thelypteris* (L.) Sw. var. *squamigerum* Schltdl., Adumbrationes plantarum 2: 23, pl. 11 (Jun.–Dec. 1825b). Type: 'Atque in Promontorio bonae spei ad Hexrivier', 1825', *J.L.L. Mund et L. Maire, C.H. Bergius s.n*. (P00482788!, holo.).

*A. squamigerum* (Schltdl.) Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 104 (1857b).

*Lastrea thelypteris* (L.) Bory var. *squamigera* (Schltdl.) Bedd., A supplement to the ferns of British India: 54 (1892).

*Dryopteris thelypteris* (L.) A.Gray var. *squamigera* (Schltdl.) C.Chr., Index filicum: 297 (18 Nov. 1905).

*D. thelypteris* (L.) A.Gray subsp. *squamigerum* (Schltdl.) Bonap. in Notes Ptéridologiques 15: 17 (25 Feb. 1924).

*T. squamigera* (Schltdl.) Ching in Bulletin of the Fan Memorial Institute of Biology 6,5: 329 (1936), as '*squamulosa*'.

*T. palustris* Schott var. *squamigera* (Schltdl.) Weath. in Contributions of the Gray Herbarium of Harvard University 73: 40 (1924).

*Nephrodium thelypteris* sensu Sim, The ferns of South Africa: 179, pl. XCIX (1892), non (L.) Strempel (1822: 32).

*N. totta* sensu Peter in Feddes Repertorium, Beiheft 40,1: 55 (1929), quoad *Peter 8812*, *37697*, non (Willd.) Diels (1899b: 170).

*D. thelypteris* sensu Sim, The ferns of South Africa, edn 2: 101, pl. 16 (1915), non (L.) Strempel (1822: 32).

Distribution: Angola, Botswana, Burundi, Congo, DRC, Ethiopia, Kenya, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Rwanda, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe.

**Thelypteris palustris** *Schott*, Genera filicum: observ. ad gen. *Nephrodium*, ad pl. 10 (1834b). Type: as for *Acrostichum thelypteris* L.

*Acrostichum thelypteris* L., Species plantarum 2: 1071 (1753). Provenance: 'Habitat in Europae septentrionalis paludibus'. Type: none designated.

*Polypodium thelypteris* (L.) L., Systema vegetabilium, edn 13: 788 (1774).

*Nephrodium thelypteris* (L.) Strempel, Filicum berolensium synopsis: 32 (2 Aug. 1822).

*Lastrea thelypteris* (L.) Bory, Dictionnaire classique d'histoire naturelle 9: 233 (25 Feb. 1825a).

*Dryopteris thelypteris* (L.) A.Gray, A manual of the botany of the Northern United States: 630 (10 Feb. 1848).

Distribution: Algeria, Morocco, Sudan, Tunisia.

## WOODSIACEAE

**Woodsiaceae** *Herter* in Revista Sudamericana de Botánica 9,1: 14 (Jun. 1949c), based on *Woodsieae* A.Gray (1856: 588).
Note: Schmakov (2001: 65) divided the family into the subfamilies Woodsioideae and Protowoodsioideae.

*Woodsieae* A.Gray, A manual of the botany of the Northern United States, edn 2: 588 (1 Sep. 1856). Type: *Woodsia* R.Br.

*Polypodiaceae* Bercht. & J.Presl tr. *Physematieae* J.Sm., Historia filicum: 235 (1875). Type: *Physematium* Kaulf. (now *Woodsia* R.Br.).

*Polypodiaceae* Bercht. & J.Presl tr. *Woodsieae* Diels in Die natürlichen Pflanzenfamilien 1,4: 159 (Aug. 1899b). Type: *Woodsia* R.Br.

*Polypodiaceae* Bercht. & J.Presl subtr. *Diplasieae* Payer, Botanique cryptogamique: 198 (1850). Type: *Diplazium* Sw.

*Athyriaceae* Alston subfam. *Diplazioideae* (Payer) Schmakov in Turczaninowia 4,1/2: 59 (2001).

*Polypodiaceae* Bercht. & J.Presl subtr. *Cystopteridinae* Payer, Botanique cryptogamique: 198 (1850), as '*Cystopterideae*'. Type: *Cystopteris* Bernh.

*Pteridaceae* Pic.Serm. subfam. *Cystopteridoideae* Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), nom. nud. [McNeill *et al.* (2006) Art. 41.1(a)]. Type: *Cystopteris* Bernh.

*Cystopteridaceae* (Payer) Schmakov in Turczaninowia 4,1/2: 60 (15 May 2001). Type: Based on *Polypodiaceae* Bercht. & J.Presl subtr. *Cystopteridinae* Payer, Botanique cryptogamique: 198 (1850), as '*Cystopterideae*'.

*Athyriaceae* Alston subfam. *Cystopterioideae* Ching & Z.R.Wang, emend. M.L.Wang & Y.T.Hsieh in Wang *et al.* in Acta Phytotaxonimica Sinica 42,6: 525 (2004).

*Polypodiaceae* Bercht. & J.Presl subtr. *Onocleinae* Diels in Die natürlichen Pflanzenfamilien 1,4: 164 (1899b). Type: *Onoclea* L.

*Polypodiaceae* Bercht. & J.Presl subfam. *Onocleoideae* C.Chr. in Manual of pteridology: 540 (3 Apr. 1938), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d)]. Type: *Onoclea sensibilis* L.

*Aspidiaceae* Frank subfam. *Onocleoideae* (C.Chr.) Nakai in Journal of Japanese Botany 24,1/12: 8 (Dec. 1949), nom. nud. [McNeill *et al.* (2006) Art. 41.1(b)].

*Athyriaceae* Alston in Taxon 5,2: 25 (25 Mar. 1956c). Type: *Athyrium* L.

*Dryopteridaceae* Ching subfam. *Athyrioideae* (Alston) Nayar in Taxon 19,2: 235 (Apr. 1970).

*Athyriaceae* Alston subfam. *Athyrioideae* Ching & Z.R.Wang, emend. M.L.Wang & Y.T.Hsieh in Wang *et al.* in Acta Phytotaxonomica Sinica 42,6: 526 (2004).

*Hypodematiaceae* Ching in Acta Phytotaxonomica Sinica 13,1: 96, 97 (Jan. 1975). Type: *Hypodematium* Kunze.

*Athyriaceae* Alston subfam. *Deparioideae* M.L.Wang & Y.T.Hsieh in Wang *et al.* in Acta Phytotaxonomica Sinica 42,6: 526 (2004). Type: *Deparia* Hook. & Grev.

### ATHYRIUM

**Athyrium** *Roth*, Tentamen florae germanicae 3,1,1: 31, 58 (Jun.–Sep. 1799). Lectotype: *Athyrium filix-femina* (L.) Roth; *Polypodium filix-femina* L., designated by Smith (1875: 327).

**Athyrium accedens** *(Blume) Milde* in Botanische Zeitung (Berlin) 28,22: 353 (3 Jun. 1870).

*Diplazium accedens* Blume, Enumeratio plantarum Javae 2: 192 (15 Dec. 1828).
Type: 'Crescit in Javae montosis', *sine coll. s.n.* (not located).

*Anisogonium decussatum* C.Presl, Tentamen pteridographiae: 116, pl. 4, fig. 13 (Oct. 1836).

*D. lastii* C.Chr. in Catalogue des plantes de Madagascar, Pteridophyta: 36 (Feb. 1932a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Source of Lambiran River, N.W. Madagascar', *J.T. Last s.n.* (K000351069!, holo.).

*D. lastii* C.Chr. in Dansk Botanisk Arkiv 7, 84: pl. 30, figs 1, 2 (Oct. 1932b).
Type: Madagascar. 'Source of Sambirano river, Dec. 1890', *J.T. Last s.n.* (K000351069!, holo.).

*Athyrium lastii* (C.Chr.) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 269 (May 1958b).

Distribution: Comoro Isl. (Anjouan, Mayotte), Madagascar, Mauritius, Réunion, São Tomé.

**Athyrium ammifolium** *(Mett.) C.Chr.*, Index filicum: 139 (20 Aug. 1905).

*Asplenium ammifolium* Mett. ex Kuhn, Filices africanae: 96 (Oct. 1868).
Type: "Fernando Po, 7000 ft above the sea, 1860", *G. Mann 347* (K000351051!, syn.); "Fernando Po, Peak, 5000 ft above the sea, 1860", *G. Mann 353* (K000351053!, K000351054!, syn.); "C[ameroon] M[ountain], 7000 ft, Decb./82", *G. Mann 2047* (K000351052!, syn.).

Chromosome number: n = ± 160 (Manton 1959: 80).

Distribution: Bioko, Cameroon, Equatorial Guinea.

**Athyrium annae** *Kornaś* in Kew Bulletin 33,1: 99, t. 1, figs A–G (1978).
Type: "Zambia, Northern Province, Kalungwishi River Gorge below Lumangwe Falls, 1 030 m", *J. Kornas & Medwecka-Kornas Pl. Afr. 3746* (KRA, holo.; FI-PS, K, iso.).

Distribution: Zambia.

**Athyrium arborescens** *(Bory) Milde* in Botanische Zeitung (Berlin) 28,22: 353 (3 Jun. 1870).

*Callipteris arborescens* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 283 (Sep. 1804a).
Type: "Ile de Bourbon. Près de la cascade, dans la rivère de St Denis. 1847.", *J.B.G.M. Bory de St.-Vincent s.n*. (P00228414, P00228415, P00228416, holo.).

*Diplazium arborescens* (Bory) Sw., Synopsis filicum: 92, 93 (Mar.–Apr. 1806b).

*Asplenium arborescens* (Bory) Mett., Filices horti botanici lipsiensis: 78, pl. 13, figs 18–20 (May–Jun. 1856a), p.p.

*Asplenium amplum* Willd. ex Kuhn, Filices africanae: 96 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Mauritius, *L.-M.A. du Petit-Thouars s.n*. (B20 0049523, holo.).

*Asplenium madagascariense* Baker in Journal of the Linnean Society, Botany 15: 417 (1876b).
Type: Madagascar, Antananarivo, *W. Pool s.n*. (K?, holo.).

*Athyrium arborescens* (Bory) Tardieu in Notulae Systematicae (Paris) 14,4: 354 (Dec. 1953c).

*Athyrium simplicivenium* (Holttum) Holttum, A revised Flora of Malaya, 2, Ferns of Malaya: 573. fig. 340 [1954] (1955).

*D. comorense* Bojer ex Baker in Synopsis filicum 6: 240 (8 Jul. 1867d).
Type: 'Johanna Island', *W. Bojer s.n*. (not located).

*D. serrulatum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 282 (Jul. 1827).
Type: 'Crescit in insula Mascareigne', *sine coll. s.n*. (B20 0049521, fragm., iso.).

*D. simplicivenium* Holttum in Gardens' Bulletin. Straits Settlements 11,2: 100, fig. 6 (1940b).
Type: "Pahang, Frasers Hill, 4000 ft. alt.", *R.E. Holttum*, Singapore Field Number 36507 (K, holo.).

Distribution: Comoro Isl. (Anjouan, Mayotte, Mohély), Madagascar, Mauritius, Réunion.

**Athyrium asperum** *(Blume) Milde* in Botanische Zeitung (Berlin) 28,22: 353 (3 Jun. 1870).

*Diplazium asperum* Blume, Enumeratio plantarum Javae 2: 195 (15 Dec. 1828).
Type: "Java, Tjeremai", *sine coll. s.n.* (L0051530, holo.?).

*Asplenium sechellarum* Baker, Synopsis filicum, edn 2: 491 (1874a).
Type: 'Seychelles, frequent in damp, shady woods', *Bouton s.n.* (not located); *Horne 165* (K000351072, syn.); 'Madagascar', *Boivin s.n.* (K000351073, K000351074, syn.).

*D. sechellarum* (Baker) C.Chr., Index filicum: 238 (2 Oct. 1905).

Distribution: Seychelles (Mahé).

**Athyrium brevipes** *(Baker) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 260 (May 1958b).

*Asplenium brevipes* Baker in Journal of the Linnean Society, Botany 16: 201 (1877a).
Type: Madagascar. 'Andrangaloaka, 1871', *H. Gilpin s.n*. (K000351068!, holo.).

*Diplazium brevipes* (Baker) C.Chr. in Dansk Botanisk Arkiv 7: 83, pl. 30, figs 3, 4 (Oct. 1932b).

Distribution: Madagascar.

**Athyrium crassicaule** *J.P.Roux* in Kew Bulletin 63,3 (2008b).
Type: South Africa, KwaZulu-Natal, Cobham Nature Reserve, Emerald Stream forest, in light shade in forest, near stream, 24 Jan. 2008, *J.P. Roux 4478* (NBG0210423-1, NBG0210423-2, NBG0210423-3, holo.; K, iso.).

*Asplenium filix-femina* sensu Sim, The ferns of South Africa.: 160, 161, pl. LXXXV (1892), non Bernh. (1806 [1805]: 26, 48), as '*felix-foemina*'.

*Athyrium filix-femina*, sensu Sim, The ferns of South Africa: 131, 132, pl. 40 (1915), non (L.) Roth (1800: 106).

See Plate 8D.

**Athyrium filix-femina** *(L.) Roth*, Tentamen florae germanicae 3,1,1: 65 (Jun.–Sep. 1799).

*Polypodium filix-femina* L., Species plantarum 2: 1090 (1 May 1753).
Provenance: 'Habitat in Europae frigidioris subhumidis'. Lectotype: "Felix mas non ramose, pinnulis angustis, rarioribus, profunde dentatis", in Plukenet, Phytographia, t. 180, fig. 4 (1692), designated by Jonsell & Jarvis (1994: 149). Typotype: Herb. Sloane 85: 127 (BM-SL).

*Asplenium filix-femina* (L.) Bernh. in Journal für die Botanik (H.A. Schrader, ed.) 1,2: 26, 27 [1805] (1806).

*Dryopteris rigida* (Hoffm.) Und. var. *rhiphaea* Pau & Font Quer in Iter maroccanum, 1927: n. 3 (1828).

*Athyrium filix-femina* (L.) Roth var. *bidentatum* Döll, Rheinische Flora: 12 (Jun. 1843).

*Athyrium filix-femina* (L.) Roth var. *dentatum* Döll, Flora des Grossherzogthumus Baden 1,1: 23 (Oct. 1855).

*D. villarii* (Bellardi) Woyn. ex Schinz & Thell. var. *rhiphaea* (Pau & Font Quer) Emb. & Maire in Catalogue des plantes du Maroc 4: 916 (1941), nom. inval.

Distribution: Algeria, Libya, Morocco, Tunisia.

**Athyrium latisectum** (*H.Rosend.) Tardieu* in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 261 (May 1958b).

*Diplazium latisectum* H.Rosend. in Arkiv för Botanik 14,18: 3, 4, t. 3, figs 1, 2 (1916).
Type: 'Madagascar: Moramanga in silva ad terram, 18/10/1912', *K.R. Afzelius & B.T. Palm s.n*.', (not located).

Distribution: Madagascar.

**Athyrium lewalleanum** *Pic.Serm*. in Webbia 27,2: 440, 442, fig. 18 [1972] (28 Feb. 1973a).
Type: 'Burundi, Bubanza: route vers Mabaye, riv. Nyamagana, 1 200 m., galerie forestière. 5.IV.1969.' *J. Lewalle 3433* (FI-PS 24934, holo.; Herb. Lewalle, iso.).

Distribution: Burundi, Tanzania.

**Athyrium medium** *(Carmich.) T.Moore*, Index filicum 2,16: 186 (Jun. 1860b).

*Aspidium medium* Carmich. in Transactions of the Linnean Society of London 12: 511 (1818).
Type: Tristan da Cunha. 'Grows on the table-land', *D. Carmichael s.n.* (BM!, holo.).

*Asplenium medium* (Carmich.) Hook., Species filicum 3,10/12: 227, 228 (Nov. 1859–Apr. 1860).

Chromosome number: tetraploid, n = 80, 2n = ± 160 (Manton & Vida 1968: 364).

Distribution: Inaccessible Isl., Tristan da Cunha.

**Athyrium mohillense** *(Fée) Tardieu* in Bulletin du Muséum d'Histoire Naturelle. Paris, ser. 2, 29,3: 290 (1957a).

*Diplazium mohillense* Fée, in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 85 (1857b). Type: 'Madagascar; île Mohilla', *De Hell s.n.* (not located).

*Asplenium mohillense* (Fée) Kuhn, Filices africanae: 107 (Oct. 1868).

Distribution: Mauritius, Réunion.

**Athyrium newtonii** *Baker* in Annals of Botany (C. König, J. Sims, eds) 5: 307 (Aug. 1891a). Type: 'Island of St Thomas, West Tropical Africa', *F.X.O. de A. Newton 2 & F. Quintas 9* (K000351055!, K000351056!, syn.; COI, isosyn.).

*Athyrium newtonii* (Baker) Diels in Die natürlichen Pflanzenfamilien 1,4: 224 (Oct. 1899b).

*Athyrium scandicinum* (Willd.) C.Presl subsp. *newtonii* (Baker) Verdc. in Flora of tropical East Africa, Woodsiaceae: 10 (2003).

*Asplenium aspidioides* Schltdl., Adumbrationes plantarum 2: 24 (Jun.–Dec. 1825b), nom. superfl. Type: "Prom. bon. sp.", *J.L.L. Mund et L. Maire s.n.* (HAL 81874), (Braun 1998: 16), lecto., designated here; (B20 0029341!, B20 0029342!, isolecto.); 'In insula Borboniae', *J.B.G.M. Bory de St.-Vincent s.n.* (not located); "Prom. bon. sp.", *C.H. Bergius s.n.* (B20 0029343!, syn.).

*Allantodia aspidioides* (Schltdl.) Kunze in Botanische Zeitung (Berlin) 6,10: 191, 192 (10 Mar. 1848c).

*Aspidium aspidioides* (Schltdl.) H.Christ, Die Farnkräuter der Erde: 224, 225 (Oct. 1897a).

*Athyrium laxum* Pappe & Rawson, Synopsis filicum Africae australis: 16 (Jan.–Jul. 1858), non Schumach. (1803: 16). Type: 'In woods and shady places at Natal', *W. Gueinzius s.n.* (not located).

*Asplenium laxum* (Pappe & Rawson) Kuhn, Filices africanae: 105 (Oct. 1868), non R.Br. (1810: 151).

*Dryopteris schnellii* Tardieu in Notulae Systematicae (Paris) 13,4: 370, pl. 1, figs 7, 8 (1948c). Type: 'Guinée: près de Nzo, juillet 1942', *R.A.A. Schnell 1499* (P00483261!, holo.).

*Athyrium scandicinum* (Willd.) C.Presl var. *rhodesianum* Schelpe in Boletim da Sociedade Broteriana, sér. 2 41: 211 (1967). Type: 'Rhodesia, Inyanga District, Pungwe Gorge, 15.vii.1955', *E.A.C.L.E. Schelpe 5722* (BOL128049, BOL128050, BOL128051, holo.; BM!, iso.).

*Asplenium filix-femina* sensu Sim, The ferns of South Africa: 160, pl. 85 (1892).

*Athyrium scandicinum* auct., non C.Presl (Oct. 1836: 98).

Distribution: Burundi, DRC, Kenya, Lesotho, Liberia, ?Madagascar, Malawi, Mozambique, Rwanda, São Tomé, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zimbabwe.

**Athyrium rondoense** *Verdc*. in Flora of tropical East Africa, Woodsiaceae: 12 (2003). Type: 'Tanzania, Rondo Plateau', *Bidgood et al. 1550* (K000351059!, holo.; BR, C, DSM, EA, MO, NHT, P, WAG, iso.).

Distribution: Tanzania.

**Athyrium scandicinum** *(Willd.) C.Presl*, Tentamen pteridographiae: 98 (Oct. 1836).

*Aspidium scandicinum* Willd., Species plantarum, edn 4, 5,1: 285, 286 (25–27 Jun. 1810). Type: 'Habitat in Borbonia', *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19832!, holo.).

*Allantodia scandicina* (Willd.) Kaulf., Enumeratio filicum: 179 (Oct. 1824).

*Cystopteris scandicina* (Willd.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 264 (Jul. 1827).

*Nephrodium scandicinum* (Willd.) Bory in Voyage aux Indes Orientales. Botanique 2,1: 63 (25 May 1833).

*Asplenium scandicinum* (Willd.) A.Heller in Minnesota Botanical Studies 9,10/11: 775 (31 May 1897), non Kaulf. (1824: 177).

*Chamaefilix scandicina* (Willd.) Farw. in The American Midland Naturalist 12,8: 275 (Mar. 1931).

*N. inquinans* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 43, t. 44, fig. 1 (1866a). Type: 'Habitat in insula Borbonica', *De Hell s.n.* (P?, holo.).

*Aspidium inquinans* (Fée) Kuhn, Filices africanae: 135 (Oct. 1868).

*Athyrium scandicinum* (Willd.) C.Presl var. *scandicinum* f. *bipinnata* Rakotondr. in Bulletin du Muséum d'Histoire Naturelle. Paris, sér. 4, 10,4: 375 (1988). Type: 'Forêt d'Ambohitantely, 1 300–1 500 m, district d'Ankazobe, avril 1985', *F. Rakotondrainibe 526* (P, holo.).

Distribution: Madagascar, Réunion.

**Athyrium schimperi** *Moug. ex Fée*, Cinquième mémoires sur la famille des fougères: 187 (1852). Type: "Ad rupes umbrosis prope Debra-Eski Abyssiniae, 9300 ft, 01/03/1850", *A.F.W. Schimper 239* (B20 0051644!, B20 0051645!, P00483580!, iso.).

*Asplenium schimperi* (Moug. ex Fée) A.Braun in Beitrag zur Flora Aethiopiens 1: 224 (May 1867).

*Athyrium solenopteris* (Kunze) T.Moore var. *madagascarica* Bonap. in Notes Ptéridologiques 5: 59 (1917d). Type: Madagascar. 'Région floristique du Centre. Environs d'Antsirabe. 1 500 mètres d'altitude. Haies. Fossés. Avril 1912', *H. Perrier de la Bâthie 11526* (P00483028!, holo.; P00483029!, iso.).

Chromosome number: n = 40 (Manton 1959: 80).

Distribution: Angola, Burundi, Cameroon, DRC, Ethiopia, Ghana, Kenya, Madagascar, Malawi, Nigeria, Rwanda, South Africa, Sudan, Tanzania, Uganda, Zambia, Zimbabwe.

## CYSTOPTERIS

**Cystopteris** *Bernh*. in Neues Journal für die Botanik 1,2: 5, 26 [1805] (1806), nom. cons. Type: *Cystopteris fragilis* (L.) Bernh.; *Polypodium fragile* L.

*Felix* Adans., Familles des plantes 2: 20, 558 (Jul.–Aug. 1763). Type: *Cystopteris fragilis* (L.) Bernh., *Polypodium fragile* L.

**Cystopteris dickieana** *R.Sim*, The Gardeners' and Farmers' Journal, ser. 2, 2: 308 (1848). Type: Aberdeen, sea cave at Cove, Scotland, 1842, *G. Dickie s.n.* (BM, holo.; K, iso.).

*C. fragilis* (L.) Bernh. var. *dickieana* (R.Sim) T.Moore, Handbook of British ferns: 81 (1849).

*C. fragilis* (L.) Bernh. subsp. *dickieana* (R.Sim) Hyl. in Uppsala Universitets Årsskrift 1945,7: 59 (1945).

Cytology: Sexual tetraploid, n = 84 (Manton 1950: 302).

Distribution: Morocco.

Note: the taxonomic status of this species is discussed by Dyer *et al.* (2000: 71–81) and by Parks *et al.* (2000: 83–105).

**Cystopteris fragilis** *(L.) Bernh*. in Neues Journal für die Botanik 1,2: 27, t. 2, fig. 9 [1805] (1806), subsp. **fragilis**.

*Polypodium fragile* L., Flora anglica: 25 (3 Apr. 1754b). Provenance: 'Habitat [in collibus Europae frigidioris.] Sp. pl., edn 2, 2: 1553 (1763)'. Lectotype: *Amman 52*, Herb. Linn. No. 1251.51 (LINN), designated by Copeland (1929c: 56).

*Cyathea fragilis* (L.) Sm. in Mémoires de l'Academie Royale des Sciences de Turin 5: 417 (1793).

*Aspidium fragile* (L.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 40 (1801).

*Athyrium fragile* (L.) Spreng., Anleitung zur Kenntniss der Gewächse 3: 136 (28 Mar. 1804).

*Cystea fragilis* (L.) Bernh. in Neues Journal für die Botanik 1,2: 26 [1805] (1806).

*Cyclopteris fragilis* (L.) Gray, A natural arrangement of British plants 2: 9 (1 Nov. 1821).

*Filix fragilis* (L.) Underw., Our native ferns and their allies, with synoptical descriptions of the American Pteridophyta north of Mexico, edn 6: 119 (Jul.–Aug. 1900).

*P. regium* L., Species plantarum 2: 1091, 1092 (1 May 1753). Provenance: 'Habitat in Gallia'. Type: Not designated. See Fuchs-Eckhert [Feddes Repertorium 90,9/10: 531 (1980)] for discussion.

*P. alpinum* Jacq., Collectanea 2: 171–173 (1788). Type: none designated.

*Cystopteris fragilis* (L.) Bernh. subsp. *alpina* (Jacq.) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 150 (1 Oct.–5 Nov. 1867).

*Cystopteris canariensis* Willd. ex C.Presl, Tentamen pteridographiae: 93 (Oct. 1836). Type: "Habitat ad Canariis", *R. Desfontaines s.n*. (B-W 19815!, holo.).

*Cystopteris fragilis* (L.) Bernh. var. *canariensis* (Willd. ex C.Presl) Milde, Filices Europae et Atlantidis, Asiae Minoris et Siberiae: 152 (1 Oct.–5 Nov. 1867).

*Cystopteris fragilis* (L.) Bernh. subsp. *canariensis* (Willd. ex C.Presl) H.Christ ex Jahand. & Maire, Catalogue des plantes du Maroc 1: 2 (1931).

*Cystopteris filix-fragilis* (L.) Chiov. subsp. *canariensis* (Willd. ex C.Presl) Jahand. & Maire, Catalogue des plantes du Maroc 1: 2 (1931).

*Cystopteris filix-fragilis* (L.) Chiov. f. *meridionalis* (Henriq.) A.Chev. in Revue de Botanique appliquée et d'Agriculture Tropicale 15,170/171: 322 (1935).

*Cystopteris fragilis* (L.) Bernh. subsp. *regia* (L.) Bernoulli, Die Gefässkryptogamen der Schweiz: 44 (Oct. 1857).

*Cystopteris fragilis* (L.) Bernh. subsp. *regia* (L.) Bernoulli var. *alpina* (Wulfen) Bernoulli, Die Gefässkryptogamen der Schweiz: 44 (Oct. 1857).

*Aspidium regium* Sw., Synopsis filicum: 58 (Mar.–Apr. 1806b). Type: Not located.

*Cystopteris regia* (Sw.) C.Presl, Tentamen pteridographiae: 93 (Oct. 1836).

*Cystopteris fragilis* (L.) Bernh. subsp. *fragilis* var. *lobato-dentata* W.D.J.Koch, Synopsis der deutschen und schweizer Flora, edn 2, 5/6: 980 (21 Dec. 1846).

*Cystopteris fragilis* (L.) Bernh. subsp. *fragilis* var. *pinnatipartita* W.D.J.Koch subvar. *anthriscifolia* W.D.J.Koch, Synopsis der deutschen und schweizer Flora, 2nd edn 5/6: 980 (21 Dec. 1846). Type: unknown to current author.

*Cystopteris fragilis* (L.) Bernh. subsp. *fragilis* var. *pinnatipartita* W.D.J.Koch subvar. *cyanopiifolia* W.D.J.Koch, Synopsis der deutschen und schweizer Flora, edn 2, 5/6: 280 (21 Dec. 1846). Type: unknown to current author.

*Cystopteris fragilis* (L.) Bernh. subsp. *fragilis* var. *acuta* Trab., Flore analytique et synoptique de l'Algérie et de la Tunisie: 402 (1905). Type: "Algérie", L. Trabut s.n. (MPU008525).

Distribution: Algeria, Bioko, Cameroon, Cape Verde Isl. (Sto. Antão, Fogo), Equatorial Guinea, Kenya, Kerguelen isl., Lesotho, Libya, Morocco, South Africa, Sudan, Tanzania, Tunisia.

See Plate 8E.

**Cystopteris fragilis** *(L.) Bernh*. subsp. **diaphana** *(Bory) Litard*. in Bulletin de Géographie Botanique; Organe mensuel de l'Academie Internationale de Botanique. Le Mans 21: 20 (9 Jan. 1911).

*Polypodium diaphanum* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 328 (Sep. 1804a). Type: N. Caverne de la plaine des chicots à 8 ou 900 toises. Ile de Mascareigne, *J.B.G.M. Bory de St.-Vincent s.n.* (P00483050!, holo.).

*C. diaphana* (Bory) Blasdell in Memoires of the Torrey Botanical Club 21,4: 47 (1963).

Distribution: Comoro Isl., ?Madagascar, Réunion.

**Cystopteris fragilis** *(L.) Bernh*. subsp. **A**, sensu Verdc. in Flora of tropical East Africa, Woodsiaceae: 5 (2003).

Note: Verdcourt (2003: 5) ascribed material that has simply pinnate fronds with 4–8 pinna pairs, with veins running into the teeth, but sometimes into sinuses, and spores with widely spaced spines, to this undescribed subspecies.

Distribution: Tanzania, Uganda.

**Cystopteris fragilis** *(L.) Bernh*. subsp. **B**, sensu Verdc. in Flora of tropical East Africa, Woodsiaceae: 7 (2003).

*Aspidium viridulum* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 321 (1811). Type: 'Habitat in insulis Teneriffae', *sine coll. s.n*. (P00483065!, holo.; P00511939!, iso.).

*C. viridula* (Desv.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 264 (Jul. 1827).

*Woodsia nivalis* Pirotta in Annali di Botanica. Genoa 7: 173 (1908). Type: "Bujongolo (Valle Mobuku) 3800 m. Giugno 1906", *Cavalli-Molinelli & Roccatti s.n*. (TO, holo.).

*C. nivalis* (Pirotta) Pic.Serm. in Webbia 23,1: 173 (20 Nov. 1968a).

*C. diaphana* sensu Blasdell in Memoirs of the Torrey Botanical Club 21,4: 47 (1963), non (Bory) Blasdell (1963: 47), s. str.

*C. fragilis* (L.) Bernh. subsp. *diaphana* sensu Litard. in Bulletin de l'Académie Internationale de Géographie 21: 20 (9 Jan. 1911), non (Bory) Litard. s. str. (1911: 88).

Distribution: Algeria, Cameroon, DRC, Ethiopia, Kenya, Lesotho, Morocco, South Africa, Sudan, Tanzania, Uganda.

Note: Verdcourt (2003: 5) ascribed material with essentially 2-pinnate fronds with 9–20 pinna pairs, with veins mostly running into tooth sinuses, and with spores densely packed with spicules, to this subspecies.

## DEPARIA

**Deparia** *Hook. & Grev.*, Icones filicum 2,8: pl. 154 (1829c). Type: *Deparia macraei* Hook. & Grev. (now *Deparia prolifera* (Kaulf.) Hook.; *Dicksonia prolifera* Kaulf.).

*Cornopteris* Nakai in The Botanical magazine (Tokyo) 44: 7 (1930).

*Lunathyrium* Koidz. in Acta Phytotaxonomica et Geobotanica 1,1: 30, 31 (1932). Type: *Lunathyrium pycnosorum* (H.Christ) Koidz.; *Athyrium pycnosorum* H.Christ.

*Deparia* Hook. & Grev. sect. *Lunathyrium* (Koidz.) M.Kato in The Botanical Magazine (Tokyo) 90,1017: 37 (1977).

*Dryoathyrium* Ching in Bulletin of the Fan Memorial Institute of Biology 11,2: 79 (1941d), excl. *Dryoathyrium pterorachis* (H.Christ) Ching. Type: *Deparia boryana* (Willd.) M.Kato; *Asplenium boryanym* Willd.

*Lunathyrium* Koidz. sect. *Dryoathyrium* (Ching) H.Ohba in Science Report of the Yokosuka City Museum 11: 53 (1965).

*Deparia* Hook. & Grev. sect. *Dryoathyrium* (Ching) M.Kato in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,4: 383 (1984).

*Athyriopsis* Ching in Acta Phytotaxonomica Sinica 9,1: 63, 64 (Jan. 1964). Type: *Athyriopsis japonica* (Thunb.) Ching; *Asplenium japonicum* Thunb.

*Lunathyrium* Koidz. sect. *Athyriopsis* (Ching) H.Ohba in Science Report of the Yokosuka City Museum 11: 52 (1965).

*Deparia* Hook. & Grev. sect. *Athyriopsis* (Ching) M.Kato in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,4: 401 (1984).

**Deparia boryana** *(Willd.) M.Kato* in The Botanical Magazine (Tokyo) 90,1017: 36 (1977).

*Aspidium boryanum* Willd., Species plantarum, edn 4, 5,1: 285 (25–27 Jun. 1810).
Type: "Habitat ad insula Borboniae", *J.B.G.M. Bory de St.-Vincent s.n.* (B-W 19831!, holo.; P00483051!, iso.).

*Lastrea boryana* (Willd.) T.Moore, Index filicum 2,8: 86 (Sep. 1858a).

*Nephrodium boryanum* (Willd.) Hook., Species filicum 4,14: 126 (Aug. 1862c), excl. exsicc. Carmich.

*Dryopteris boryana* (Willd.) C.Chr., Index filicum: 255 (2 Oct. 1905).

*Athyrium boryanum* (Willd.) Tagawa in Acta Phytotaxonomica et Geobotanica 4: 144 (1935).

*Dryoathyrium boryanum* (Willd.) Ching in Bulletin of the Fan Memorial Institute of Biology 11,2: 81 (1941d).

*Ctenitis boryana* (Willd.) Copel., Genera filicum: 123 (1947).

*Cornopteris boryana* (Willd.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 30, pl. 2, figs 1–4 (1956f), nom. inval. [McNeill *et al.* (2006) Art. 33.4].

*Parathyrium boryanum* (Willd.) Holttum in Kew Bulletin 1958,3: 449 (1959a).

*Lunathyrium boryanum* (Willd.) H.Ohba in Science Report of the Yokosuka City Museum 11: 53 (1965).

*N. catopteron* (Kunze) Hook. var. *glabrum* Hook., Species filicum 4,14: 137 (Aug. 1862c), quoad syntype.
Type: "Fernando Po. Africa occid.", *G. Mann s.n.* (K000351048!, B20 0057085, syn.).

*Aspidium glabratum* (Hook.) Mett. ex Kuhn, Filices africanae: 133, 134 (Oct. 1868).

*N. glabratum* (Hook.) Baker in Synopsis filicum, edn 2: 500 (Oct. 1874a).

*Dryopteris glabrata* (Hook.) Kuntze, Revisio generum plantarum 2: 812 (5 Nov. 1891).

*Thelypteris glabrata* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 344 (Dec. 1953c).

*Athyrium glabratum* (Hook.) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 11 (1956a).

*Deparia glabrata* (Hook.) M.Kato in The Botanical Magazine (Tokyo) 90,1017: 36 (1977).

*Aspidium kiboschense* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85, 86 (Jun. 1895).
Type: 'Kiboscho, um 2 300 m', *G.L.A. Volkens 1554* (B, holo.; BM, fragm.).

*Dryopteris kiboschensis* (Hieron.) C.Chr., Index filicum: 273 (18 Nov. 1905).

*T. glabrata* (Hook.) Tardieu var. *hirsuta* Tardieu in Notulae Systematicae (Paris) 14,4: 344 (Dec. 1953c), non *Aspidium glabratum* (Hook.) Mett. ex Kuhn (1868: 133).
Type: 'Côte d'Ivoire', *sine coll. s.n.* (P?, holo.).

*N. catopteron* sensu Peter in Feddes Repertorium, Beiheft 40,1: 57 (1929), non (Kunze) Hook. (1862c: 137).

Distribution: Bioko, Cameroon, Comoro Isl. (Anjouan), Côte d'Ivoire, DRC, Ethiopia, Kenya, Liberia, Madagascar, Malawi, Mauritius, Mozambique, Nigeria, Réunion, Rwanda, Tanzania, Uganda, Zimbabwe.

**Deparia forsythii-majoris** *(C.Chr.) M.Kato* in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,4: 389 (1984).

*Dryopteris forsythii-majoris* C.Chr. in Dansk Botanisk Arkiv 7: 63, pl. 16, figs 1–3 (Oct. 1932b).
Type: 'Forêt d'Ambohimitombo, 22 Decembre 1894', *C.I. Forsyth Major 169* (K000351049!, holo.; C, iso.).

*Cornopteris forsythii-majoris* (C.Chr.) Tardieu in American Fern Journal 48,1: 32 (17 Apr. 1958a).

*Dryoathyrium forsythii-majoris* (C.Chr.) C.V.Morton in Contributions from the United States National Herbarium 38,2: 43 (1967).

Distribution: Madagascar.

**Deparia japonica** *(Thunb.) M.Kato* in The Botanical Magazine (Tokyo) 90,1017: 37 (1977).

*Asplenium japonicum* Thunb., Flora japonica: 334 (Aug. 1784).
Type: 'Crescit in montibus Nagasaki', *sine coll. s.n.* (missing).

*Diplazium japonicum* (Thunb.) Bedd., Supplement to the ferns of Southern India and British India: 12 (1876).

*Athyrium japonicum* (Thunb.) Copel. in The Philippine Journal of Science 3: 290 (1908).

*Lunathyrium japonicum* (Thunb.) Sa.Kurata in Journal of Geobotany 9,3/4: 99 (Jan. 1961).

*Athyriopsis japonica* (Thunb.) Ching in Acta Phytotaxonomica Sinica 9,1: 65 (1964).

Distribution: Naturalised in South Africa (KwaZulu-Natal) and Swaziland.

**Deparia marojejyensis** *(Tardieu) M.Kato* in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,4: 389 (1984).

*Cornopteris marojejyensis* Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 6: 240, pl. 9, figs 1–6 (1955f).
Type: Madagascar. 'Contreforts occidentaux du massif du Marojejy, près du col de Doanyanala, 600–700 m', *H. Humbert 23010* (P00483030!, holo.; P00483031!, iso.).

*Parathyrium marojejyensis* (Tardieu) Tardieu in Adansonia 5,4: 500 (1965).

Distribution: Madagascar.

**Deparia parvisora** *(C.Chr.) M.Kato* in Journal of the Faculty of Science, University of Tokyo. Section 3, Botany 13,4: 389 (1984).

*Dryopteris parvisora* C.Chr. in Arkiv för Botanik 14,19: 5, pl. 1, fig. 5 (24 Mar. 1916).
Type: 'Madagascaria: Morananga, in silvis primaevis, 1.10.1912', *K.R. Afzelius & B.T. Palm 371* (S?, holo.).

*Cornopteris parvisora* (C.Chr.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 30, fig. 1, t. 1–5 (1956f).

*Dryoathyrium parvisorum* (C.Chr.) C.V.Morton in Contributions from the United States National Herbarium 38,2: 43 (1967).

Distribution: Madagascar.

## DIPLAZIUM

**Diplazium** *Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 4, 61, 62 (1801). Lectotype: *Diplazium plantagineum* Sw. (now *Diplazium plantagineum* (L.) Urb.; *Asplenium plantaginifolium* L.), designated by Smith (1875: 325).

*Callipteris* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 282 (Sep. 1804a). Type: *Callipteris prolifera* (Lam.) Bory; *Asplenium proliferum* Lam.

**Diplazium andapense** *(Tardieu) Rakotondr.* in Rakotondrainibe & Raharimalala, Fieldiana, Zoology, n.s. 90: 37 (1998).

*Athyrium andapense* Tardieu in Bulletin du Muséum d'Histoire Naturelle ( Paris), ser. 2, 29,3: 291 (1957a).
Type: Madagascar. 'Massif de l'Anjanaharibe à l'Ouest d'Andapa', *H. Humbert 24614* (P00483032!, holo.; K000351067!, P00483033!, P00483034!, iso.).

Distribution: Madagascar.

**Diplazium caudatum** *(Cav.) Jermy* in Fern Gazette 9,5: 161 (22 Jul. 1964), non *D. caudatum* J.Sm. (1841: 408).

*Tectaria caudata* Cav. in Anales de Ciencias Naturales 4: 100, 101 (1802).
Type: 'Se cria en los sitios húmedos de Tenerife, *P.M.A. Broussonet s.n*. (MA, holo.).

*Polypodium umbrosum* Aiton, Hortus kewensis 3: 466 (7 Aug.–1 Oct. 1789), non *Diplazium umbrosum* Willd. (1810: 353).
Type: 'Madeira, 1779', *F. Masson s.n*. (not located).

*Aspidium umbrosum* (Aiton) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 42 (1801).

*Allantodia umbrosa* (Aiton) Kaulf., Enumeratio filicum: 179 (Oct. 1824).

*Athyrium umbrosum* (Aiton) C.Presl, Tentamen pteridographiae: 98 (Oct. 1836).

*Asplenium umbrosum* (Aiton) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 174 (1842a), non Vill. (1786: 281), nec Kaulf. (1824: 168).

*Asplenium aitonii* T.Moore, Index filicum 1: xlix (1857c), nom. nov. for *Asplenium umbrosum* (Aiton) J.Sm. (1842a: 174), non Kaulf. (1824: 168, 169).

*Asplenium axillare* sensu J.Sm., Companion to the botanical magazine 72: 30 (1846), excl. syn.
Type: Ex hort., Kew, *sine coll. s.n*. (BM, holo.).

Distribution: Cape Verde Isl. (Sto. Antão).

**Diplazium esculentum** *(Retz.) Sw*. in Journal für die Botanik (H.A. Schrader, ed.) 1801,2: 312 (1803).

*Hemionitis esculenta* Retz., Observationes botanicae 6: 38 (1791).
Type: 'Habitat in India orientali', *J.G. König s.n*. (LD!, holo.).

*Anisogonium esculentum* (Retz.) C.Presl, Tentamen pteridographiae: 116 (Oct. 1836).

*Callipteris esculentum* (Retz.) Houlston & T.Moore in The Gardeners' Magazine of Botany, Horticulture, Floriculture, and Natural Science 3: 265 (1851).

Distribution: Naturalised in South Africa and Zimbabwe.

**Diplazium filamentosum** *(Roxb.) Cronk* in Bulletin of the British Museum (Natural History). Botany 25,1: 98 (29 Jun. 1995).

*Asplenium filamentosum* Roxb. in Tracts relative to the island of St Helena: 299, 300 (Jan. 1816).
Type: 'St Helena, 1955, 'Cason's Gate 1800'. Roadside banks, shady places, ridge', *N.R. Kerr 65* (BM, neo.), designated by Cronk (1995: 96).

*D. nigropaleaceum* Kunze in Linnaea 24: 270 (1851a), as *'nigro-paleaceum*'.
Type: Sine loc., *L.B.E. Schmid 98.156* (not located).

*A. nigropaleaceum* (Kunze) A.Braun, Appendix plantarum novarum Horto berolensi 1861: 2 (25 Mar. 1862), as *'nigro-paleaceum*'.

*D. loddigesii* J.Sm. ex Diels in Die natürlichen Pflanzenfamilien 1,4: 226 (Oct. 1899b).

Distribution: St Helena.

**Diplazium humbertii** *(C.Chr.) Pic.Serm*. in Webbia 27,2: 444 [1972] (28 Feb. 1973a).

*Athyrium humbertii* C.Chr. in Dansk Botanisk Arkiv 9,3: 54, pl. 6, figs 7–9 (1937c).
Type: 'Tropical Africa: Congo Belge. Montagnes à l'ouest du lac Kivu, forêt, 2000–2400 m, février–mars 1929', *H. Humbert 7497* (BM!, holo.; P00477818!, P00477819!, P00483027!, iso.).

Distribution: Burundi, DRC, Rwanda, Tanzania, Uganda.

**Diplazium marojejyense** *(Tardieu) Rakotondr. ex J.P.Roux*, comb. nov.

*Athyrium marojejyense* Tardieu in Bulletin du Muséum d'Histoire Naturelle. Paris, ser. 2, 29,3: 292 (1957a).
Type: Madagascar. 'Centre: contreforts occidentaux du massif du Marojejy, bassin de la Lokoho, près d'Ambalava', *H. Humbert 23228* (P00483061!, holo.; P00483035!, P00483062!, iso.).

*D. marojejyense* (Tardieu) Rakotondr. in The natural history of Madagascar: 302 (2003), nom. nud. [McNeill *et al.* (2006) Art. 33.4].

Distribution: Madagascar.

**Diplazium morogorense** *J.P.Roux*, nom. nov.

*Callipteris ulugurica* Verdc. in Flora of tropical East Africa, Woodsiaceae: 15 (2003).
Type: 'Tanzania, Morogoro District, NE Uluguru Mts, Kinole', *R.B. Faden et al. 70/681* (EA, holo.; K, EA, iso.).
Note: uniting *Callipteris* with *Diplazium*, followed here, will result in the formation of a homonym for *Diplazium ulugurens*e Verd. (2003: 21), hence the nomen novum.

Distribution: Tanzania.

**Diplazium nemorale** *(Baker) Schelpe* in Boletim da Sociedade Broteriana, sér. 2, 41: 212 (1967).

*Asplenium nemorale* Baker in Journal of the Linnean Society, Botany 15: 417 (1876b).
Type: "Antananarivo Madagascar", *W. Pool s.n.* (K000351071!, holo.).

*Athyrium arborescens* (Bory) Sw. var. *nemorale* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 36 (Feb. 1932a).

*Asplenium hylophilum* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 4 (Jun. 1895).
Type: Tanzania, Lushoto District, W. Usambaras, Mbaramu; 'Usb., Shagaïuwald bei Mbaramu', *C.H.E.W. Holst 2480* (B20 0047895!, holo.; BM, fragm.; K000351063!, P00483036!, iso.).

*D. hylophilum* (Hieron.) C.Chr., Index filicum: 233 (2 Oct. 1905).

*D. stolzii* Brause in Botanische Jahrbücher 53: 381, 382 (1915).
Type: 'Deutsch-Ostafrika: Kyimbila, Rungue-Regenwald, Südabhang, im Waldesschatten, 16–1 800 m ü. M., 3 Mai 1912', *A. Stolz 1233* (B20 0049770!, holo., B20 0049768!, B20 0049769!, iso.; BM, fragm.; K000351064!, P00477803!, iso.).

Distribution: Bioko, Kenya, Liberia, Madagascar, Malawi, Mozambique, São Tomé, Tanzania, Zimbabwe.

**Diplazium proliferum** *(Lam.) Kaulf.*, Enumeratio filicum: 182 (Oct. 1824).

*Asplenium proliferum* Lam., Encyclopédie méthodique. Botanique 2,1: 307 (16 Oct. 1786).
Type: 'Isle de Bourbon', *P. Commerson s.n.* (P-LA, B20 0049248, syn.).

*Callipteris prolifera* (Lam.) Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 283 (Sep. 1804a).

*Athyrium proliferum* (Lam.) Milde in Botanische Zeitung (Berlin) 28,22: 353 (3 Jun. 1870).

*Asplenium decussatum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 51 (1801).
Type: "Habitat in insula Mauritii", *sine coll. s.n.* (S?, holo.; B-W 19877!, 4 sheets, iso.).

*D. incisum* Schumach., Beskrivels af Guineeiske planter: 458 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs Naturvidenskabelige og Mathematiske Afhandlinger 4: 232, 233 (1829).
Type: Ghana, 'Aquapim, 1786', *P.E. Isert s.n.* (C, syn.); 'Guinea', *P. Thonning s.n.* (C, syn.).

*D. serratum* Schumach., Beskrivels af Guineeiske planter: 459 (1827), prepr. from Det Kongelige Danske Videnskabernes Selskabs Naturvidenskabelige og Mathematiske Afhandlinger 4: 233 (1829).
Type: Ghana, 'Aquapim', *?P. Thonning s.n.* (C, holo.).

*D. proliferoides* Bory in Voyage aux Indes Orientales. Botanique 2,1: 38 (25 May 1833).
Type: 'l'île Maurice', *J.B.G.M. Bory de St.-Vincent s.n.* (P00483041!, holo.).

*D. decussatum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 67 (1929), see note by Verdcourt (2003: 15).

Chromosome number: n = ± 80 (Manton 1959: 80).

Distribution: Angola, Annobon, Bioko, Cameroon, Central African Republic, Coté d'Ivoire, DRC, Gabon, Ghana, Guinea, Liberia, Madagascar, Nigeria, Príncipe, Rodrigues Isl., São Tomé, Sierra Leone, Sudan, Tanzania, Togo, Uganda.

**Diplazium pseudoporrectum** *Hieron.* in Botanische Jahrbücher 28: 342 (1900a).
Type: 'Südost-Uluguru: im Bergwalde bei Ng'heme um 1 500–1 700 m ü. M., Oct. 1894', *F. Stuhlmann 8796* (B20 0049368!, syn.); 'Südost-Uluguru: im Bergwalde bei Ng'heme um 1 500–1 700 m ü. M., Oct. 1894', *F. Stuhlmann 8810* (B20 0049367!, syn.).

*D. pseudoporrectum* Hieron. var. *angustipinnatum* Reimers in Notizblatt des Botanischen Gartens und Museums zu Berlin-Dahlem 11,109: 922 (1933).
Type: 'Uluguru-Gebirge: NW., ± 1 400 m, Nebelwald, sehr häuftig, ± 40–80 cm hoch (18 Dez. 1932)', *H.J. Schlieben 3108* (B20 0049366!, B20 0049369!, holo.; BM, iso.).

Distribution: Tanzania.

**Diplazium sammatii** *(Kuhn) C.Chr.*, Index filicum: 238 (2 Oct. 1905).

*Asplenium sammatii* Kuhn in Von der Decken's Reisen in Ost-Afrika in 1851–1861 3,3 Botany: 34, 35 (Aug.–Sep. 1879).
Type: 'West-Afrika, in Wäldern bei Majombe, Loango', *H. Soyaux 134* (not located); 'Central-Afrika, im Niam-Niamlande am Chor Diagbe bei Uando's Dorf', *G.A. Schweinfurth 3117* (B20 0049451, K000351061!, K000351062!, syn.); 'in Lande der Monbuttu am Mbulabache nördlich vom Kibaliflusse', *G.A. Schweinfurth s.n.* (not located); 'am Bach bei Bongua's Dorf', *G.A. Schweinfurth 3588* (not located).

*Athyrium sammatii* (Kuhn) Tardieu in Notulae Systematicae (Paris) 14,4: 353 (1953c).

*Asplenium ottonis* Kuhn, Filices africanea: 109, 110 (1868), non (Klotzch) Hook. (1859–1860: 243).
Type: 'Africa occidentalis tropica. Angiama', *Barter 83* (syn., not located); 'Montes Cameroon', *G. Mann 787* (syn., not located).

*Asplenium crenato-serratum* J.Bommer ex H.Christ in Bulletin de l'Herbier Boissier 4,10: 662, 663 (1896).
Type: 'Forêts humides du Mayombe, Congo, Septembre 1893', *É. Laurent s.n.* (P00483042!, ?iso.).

*Diplazium bommeri* H.Christ in C.Chr., Index filicum: 228 (2 Oct. 1905), nom. nov. for *Asplenium crenato-serratum* J.Bommer ex H.Christ, non Blume (1828: 177).

*Diphasium gilletii* H.Christ in Annales du Musée du Congo (Belge). Botanique, sér. 5, 3: 31 (1909b).
Type: 'Bas-Congo (environs de Kisantu), 1905', *J. Gillet 3894* (P00477799, iso.).

*Diplazium zenkeri* Hieron. in Botanische Jahrbücher 46,3: 347, 348 (1911), nom. nov. for *Asplenium ottonis* Kuhn, non (Klotzch) Hook. (1859–1860: 243).
Type: 'Kamerun: an schattigen feuchten Frußufern bei Amugu unweit Bipindi im Bezirk Kribi, 16 Juni 1898', *G.A. Zenker 1828* (B?, K000351060!, P00483039!, P00483040!, syn.); 'in Kamerungebirge', *G. Mann 787* (B?, syn.); 'in sumpfigen Wäldern bei Abo, 26 Februar 1874', *R.W. Buchholz 3* (B?, syn.); 'Nigergebiet bei Angiama', *C. Barter 83* (B?, syn.).

Distribution: Benin, Cameroon, Central African Republic, Congo, Cote d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Madagascar, Nigeria, Sudan.

**Diplazium sylvaticum** *(Bory) Sw.*, Synopsis filicum: 92 (Mar.–Apr. 1806b).

*Callipteris sylvatica* Bory, Voyage dans les quatre principales îles des mers d'Afrique 1: 282, 283 (Sep. 1804a).
Type: "N. Piton du milieu, Ile de France", *J.B.G.M. Bory de St.-Vincent s.n.* (P00483043!, holo.).

*D. sylvaticum* (Bory) Sw., Synopsis filicum: 92 (Mar.–Apr. 1806b).

*Asplenium sylvaticum* (Bory) C.Presl, Reliquiae haenkeanae 1: 42 (Jun.–Nov. 1825).

*Anisogonium sylvaticum* (Bory) C.Presl, Tentamen pteridographiae: 116 (Oct. 1836).

*Microstegia sylvatica* (Bory) C.Presl, Epimeliae botanicae: 90 (1851).

*Asplenium argutans* Fée, Cinquième mémoires sur la famille des fougères: 191, 194, t. 24, fig. 2 (1852), nom. nov. for *Asplenium formosum* Sieber, non Willd. (1810: 329), excl. exsicc.

Distribution: Mauritius.

**Diplazium ulugurense** *Verdc*. in Flora of tropical East Africa, Woodsiaceae: 21 (2003).
Type: 'Tanzania, Morogoro District, Uluguru Mts, E slope of Bondwa', *R.B. Faden et al. 70/635* (K, holo.; EA, iso.).

Distribution: Tanzania.

**Diplazium velaminosum** *(Diels) Pic.Serm*. in Webbia 27,2: 443 [1972] (28 Feb. 1973a).

*Hemitelia velaminosa* Diels in Die natürlichen Pflanzenfamilien 1,4: 132 (Aug. 1899a).
Type: Cameroon, Buea, 'in Unter-Buea, nahe dem Ost-Enda, *P.R. Preuss 910* (B, syn.; BM, isosyn.).

*Cyathea velaminosa* (Diels) Domin, Pteridophyta: 264 (Oct. 1929a).

*D. zanzibaricum* sensu Alston, The ferns and fern-allies of West tropical Africa, being a second edition of the Flora of West tropical Africa: 65 (1959b), p.p., non (Baker) C.Chr. (1905: 241).

Distribution: Cameroon, Guinea, Kenya, Liberia, São Tomé, Uganda.

**Diplazium welwitschii** *(Hook.) Diels* in Die natürlichen Pflanzenfamilien 1,4: 226 (Oct. 1899b).

*Asplenium welwitschii* Hook. in Synopsis filicum 6: 235, 236 (8 Jul. 1867d).
Type: 'Angola, Cuanza Norte, Golungo Alto, Quisucula', *F.M.J. Welwitsch 100* (K000351066, holo.; LISU, iso.).

*Athyrium welwitschii* (Hook.) Tardieu in Notulae Systematicae (Paris) 14,4: 334 (Dec. 1953b).

*D. humile* Bojer, Hortus mauritianus: 398 (1837), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Asplenium humile* Baker in Synopsis filicum 6: 230 (8 Jul. 1867d).
Type: 'Mauritius', *sine coll. s.n*. (not located).

*D. silvaticum* (Bory) Sw. var. *rousseaui* Bonap., Bulletin du Muséum d'Histoire Naturelle (Paris) 13,6: 386 (1913), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Côte de ''Ivoire, région intérieure d'Assinie, sans date', *M.A. Chaper s.n*. (P00483045!, holo.; P00477806!, iso.).

*D. mildbraedii* Brause in Botanische Jahrbücher 53: 380, 381 (1915).
Type: 'Westafrika: Südkameruner Waldgebiet, Bezirk und Station Molundu am Dscha (Ngoko) 15°12' ö. L., 2° n. Br. Nginda 21 km nördlich Molundu. Sumpf mit *Raphia*. 4 Jan. 1911', *G.W.J. Mildbraed 4161* (B20 0048638!, holo.; P00477882!, iso.).

*Athyrium welwitschii* (Hook.) Tardieu var. *mildbraedii* (Brause) Tardieu in Notulae Systematicae (Paris) 14,4: 354 (Dec. 1953c).

*D. silvaticum* (Bory) Sw. var. *pinnatifida* Bonap. in Notes Ptéridologiques 10: 109 (18 Mar. 1920c).
Type: Gabon. 'Forêts de Mayombe-Bayata. A Tchibanga. Le 21 Juillet 1910', *G. le Testu 1581* (P00483044!, holo.; P00477804!, P00477805!, iso.).

*Athyrium letouzeyi* Tardieu in Notulae Systematicae (Paris) 14,4: 334 (1953b).
Type: 'Cameroun: Bassin du Mungo', *F. Fleury 17* (P00483046!, holo.; P00477800!, iso.).

Chromosome number: n = 123 (Manton 1959: 80).

Distribution: Angola, Bioko, Cameroon, Central African Republic, Congo, Coté d'Ivoire, DRC, Equatorial Guinea, Gabon, Ghana, Liberia, Madagascar.

**Diplazium zakamenense** *(Tardieu) Rakotondr.* in Bulletin du Muséum d'Histoire Naturelle (Paris), sér. 4, 10,4: 376 (1988).

*Athyrium zakamenense* Tardieu in Bulletin du Muséum d'Histoire Naturelle (Paris), sér. 2, 29,3: 291, 292 (1957a).
Type: Madagascar. 'Centre: massif de l'Andrangovalo, au S.-E. du lac Alaotra, réserve naturelle de Zakamena, vers 1 200 m', *H. Humbert & G. Cours 17866* (P00483047, holo.; P00483048, P00483049, iso.).

Distribution: Madagascar.

**Diplazium zanzibaricum** *(Baker) C.Chr*., Index filicum: 241 (2 Oct. 1905).

*Asplenium zanzibaricum* Baker in Annals of Botany (C. König, J. Sims, eds) 5: 311 (Aug. 1891a).
Type: 'Zanzibar', *J.T. Last s.n*. (K000351065!, holo.).

*Aspidium sulcinervium* Hieron. in Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete 1, C: 85 (Jun. 1895).
Type: Tanzania. 'Kl., Marangu, 2 300 m', *G.L.A. Volkens 1492* (B, holo.; BM, iso.), p.p.

*Dryopteris sulcinervia* (Hieron.) C.Chr., Index filicum: 296 (18 Nov. 1905).

*Diplazium sulcinervium* (Hieron.) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 37 (Feb. 1932a).

*Cornopteris sulcinervia* (Hieron.) Tardieu in Mémoires de l'Institut Scientifique de Madagascar, Série B, Biologie végétale 7,1: 30, pl. 2, figs 5–7 (1956f).

Distribution: Cameroon, Comoro Isl., DRC, Guinea, Kenya, Liberia, Madagascar, Malawi, Mozambique, Rwanda, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.

## GYMNOCARPIUM

**Gymnocarpium** *Newman* in The Phytologist 4: 371 (1851). Lectotype: *Polypodium dryopteris* L. (= *Gymnocarpium dryopteris* (L.) Newman), designated by Ching (1933a).
Note: Morton (1969b: 661, 662) and McNeill & Pryer (1985: 136–143) discuss the typification of the genus.

**Gymnocarpium robertianum** *(Hoffm.) Newman* in The Phytologist 4: 371 (1851).

*Polypodium robertianum* Hoffm., Deutschland Flora 2: 20, in add. et emend. (1795).
Type: unknown to the author.

*Dryopteris robertiana* (Hoffm.) C.Chr., Index filicum: 289 (18 Nov. 1905).

*P. calcareum* Sm., Flora britannica 3: 1117 (29 Mar. 1804).
Type: 'About Matlock bath, Derbyshire', *sine coll. s.n*. (not located).

*D. disjuncta* (Rupr.) C.V.Morton subsp. *calcarea* (Sm.) Rouy, Flore de France 14: 399 (Apr. 1913).

Distribution: Algeria, Libya.

## WOODSIA

**Woodsia** *R.Br*., Prodromus florae Novae Hollandiae: 158 (1–7 Apr. 1810), obs. iv sub *Alsophila*, as *Woodia*. Lectotype: *Woodsia ilvensis* (L.) R.Br.; *Acrostichum ilvense* L., designated by Smith (1875: 237).

*Woodsia* R.Br. sect. *Perrinia* Hook., Species filicum 1,1: 62 (Mar. 1844a). Lectotype: *Woodsia scopulina* D.C.Eaton, designated by Tagawa (1937: 253).

**Woodsia angolensis** *Schelpe* in Garcia de Orta, Série de Botânica 3,1: 53 (1976).
Type: 'Angola, Huíla, Lubango. "Tundavala (Serra da Chela) ao quilòmetro 18 da escarpa rochosa junto à fenda", 30-iv-1971, *A. Borges 131* (LISC000013, LISC000016, holo.; COI, LUAI, iso.).

Distribution: Angola, South Africa.

**Woodsia burgessiana** *Gerr. ex Hook. & Baker*, Synopsis filicum 2: 48 (11 Dec. 1867a).
Type: Natal, near the Tugela River, *P. Gerrard & M.J. McKen s.n.* (K000351038!, holo.; S, TCD, iso.).
*W. montividensis* (Spreng.) Hieron. var. *burgessiana* (Gerr. ex Hook. & Baker) Schelpe in Journal of South African Botany 35,2: 138 (1969a).

Distribution: Lesotho, Madagascar, South Africa, Zimbabwe.

See Plate 8F.

## MISPLACED NAMES AND NAMES OF PLANTS OF UNKNOWN IDENTITY

Names in **bold** are currently accepted names, but are of species not occurring in the defined region. Main entries in *italics* are names of taxa of which the identity is unknown.

**Abrodictyum obscurum** *(Blume) Ebihara & K.Iwats.* in Ebihara *et al*. Blumea 51,2: 244 (2006).
Note: Kuhn (1868: 35) ascribes material from the Comoro and Mayotte Islands to this species, but it does not occur in the area.

*Acrostichum glabrescens* (C.Presl) Kuhn, Filices africanae: 45 (Oct. 1868). = possibly *Elaphoglossum tomentosum* (Bory ex Willd.) H.Christ.

*Acrostichum marginatum* Wall. ex Fée, Mémoires sur la famille des fougères 2: 32 (1845a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: Based on Wallich, A numerical list of dried specimens: no. 17 (1829). Identity unknown.

*Acrostichum martinicense* Desv. in Magazin für die neuesten Entdeckungen in der gesammten Naturkunde, Gesellschaft Naturforschender Freunde zu Berlin 5: 309 (1811), non Fée (1845a: 45).
Type: 'Habitat in Martinica', *A.N. Desvaux s.n.* (P00249874, holo.).
Note: the species does not occur in the defined area. This is **Elaphoglossum martinicense** *(Desv.) T.Moore*.

*Acrostichum microphyllum* Mett. ex Kuhn, Filices africanae: 46 (Oct. 1868).
Type: 'Ins. Borboniae', *L.H. Boivin 797* (not located). Identity unknown.

*Acrostichum sejunctum* Kuhn, Filices africanae: 47 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Sierra Leone', *C. Barter s.n.* (K?, holo.). Identity unknown.

*Acrostichum sorbifolia* L., Species plantarum 2: 1069 (1 May 1753).
Provenance: 'Habitat in Jamaica, Domingo'. Lectotype: "Lonchitis Calamifera, pinnis serratis", in Petiver, Pteri-graphia Amer.: 153, t. 9, fig. 8 (1712), designated by Proctor (1977: 222).
= **Lomariopsis sorbifolium** *(L.) Fée.*

*Acrostichum spinulosum* Noronha ex Thouars, Mélanges de botanique et des voyages (1811). Identity unknown.

*Adiantum cicutifolium* Noronha ex Thouars, Mélanges de botanique et des voyages (1811), as '*cicutaefolium*'. Identity unknown.

*Adiantum cultrifolium* Noronha ex Thouars, Mélanges de botanique et des voyages (1811). Identity unknown.

*Adiantum fruticosum* Noronha ex Thouars, Mélanges de botanique et des voyages (1811). Identity unknown.

*Adiantum ovatifolium* Noronha ex Thouars, Mélanges de botanique et des voyages (1811). Identity unknown.

*Adiantum papyraceum* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 307 (Jul. 1827). = *Asplenium* sp., status uncertain, sterile.
Type: 'Crescit in insula Mascareigne', *sine coll. s.n.* (?P, holo.).

*Alsophila madagascariensis* Willd. ex Kuhn, nom. inval., Filices africanae: 163 (1868). See *Cyathea madagascariensis* Kaulf.

*Amblya serrata* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 35, t. 40, fig. 2 (1866a).
Type: 'Habitat in insula Sanctae Helenae', in error, *sine coll. s.n.* (?P, holo.).
Note: Copeland (1947: 110) gives *Amblya* as a synonym of *Phanerophlebia* C.Presl.

*Aspidium decompositum* (R.Br.) Spreng., Systema vegetabilium, 16th edn 4,1: 109 (Jan. 1827), sensu Kuhn (1868: 131).

= **Lastreopsis decomposita** *(R.Br.) Tindale,* a taxon native to Australia and the Norfolk Islands.

*Aspidium decompositum* (R.Br.) Spreng. var. *quinquangulare* (Kunze) Mett., Filices horti botanici lipsiensis: 94 (May–Jun. 1856a). Identity unknown.

*Aspidium frondulosum* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 40 (1866a).
Type: 'Habitat in insula Bourbonica', *sine coll. s.n*. (not located). Identity unknown.

*Aspidium hirtum* (Sw.) Sw., Synopsis filicum: 56 (Mar.–Apr. 1806b). See *Polypodium hirtum* Sw.

*Aspidium inaequale* Schltdl. var. *alpina* Kuhn, Filices africanae: 23 (Oct. 1868).
Type: 'Ins. Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnum 6000 ped. Majo 1864', *O. Kersten 45* (not located). Identity unknown.

*Aspidium madagascariense* Fée, Cinquième mémoires sur la famille des fougères: 296 (1852).
Type: 'In insulâ Madagascariensi crescens', *sine coll. s.n*. (not located). Identity unknown.

*Aspidium microcarpum* (P.Willemet) Kuhn, Filices africanae: 136 (Oct. 1868). See *Polypodium microcarpum*.

*Aspidium pedicularis* P.Willemet ex Kuhn, Filices africanae: 138 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Identity unknown.

*Aspidium petersenii* Kunze, MS.
Note: a manuscript name of Kunze mentioned under *Aspidium napoleonis* by Kuhn (1868: 137).
= **Dryopteris napoleonis** *(Bory) Kuntze.*

*Aspidium plantianum* (Pappe & Rawson) Kuhn, Filices africanae: 139 (Oct. 1868). See *Nephrodium plantianum* Pappe & Rawson.

*Aspidium pteroides* (Retz.) Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1800,2: 33 (1801). See *Polypodium pteroides* Retz.

*Aspidium pulchellum* Bory ex Willd., Species plantarum, edn 4, 5,1: 253 (25–27 Jun. 1810). Based on *Bory s.n.* (B-W19787, holo.), non Blume (1828: 167). Identity unknown.

*Aspidium quinquangulare* Kunze in Linnaea 23: 302, 303 (1850).
Type: 'partria? ... t. H.V. Houtte. H. Lips. 1843' (not located). See *Aspidium decompositum* var. *quinquiangulare*.

*Aspidium rotundatum* Vahl ex Kuhn, Filices africanae: 141 (Oct. 1868), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Type: Based on Hornemann, Animadvers. Havn.: 8 (1819). [= *De indole plantarum guineensium* (27 Oct.1819)]. Hepper (1976) lists the name as a synonym of *Cyclosorus dentatus* (Forssk.) Ching, but a search of the Vahl Herbarium at Copenhagen did not reveal any material (Friis, pers. comm.). The identity of this name therefore remains obscure.

*Aspidium serratum* (Fée) Kuhn, Filices africanae: 142 (Oct. 1868).

*Asplenium brachysorum* R.Br. ex T.Moore, Index filicum 2,10: 117 (May 1859a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].

*Asplenium cicutarium* Sw., Nova genera & species plantarum. Prodromus: 130 (20 Jun.–29 Jul. 1788).
Type: 'Jamaica', *O. Swartz s.n.* (S-Sw., holo.; SBT, iso.).
= **Asplenium cristatum** *Lam*.

*Asplenium contiguum* Kaulf. var. *elongatum* Kuhn, Filices africanae: 21 (Oct. 1868), as '*elongata*'.
Type: 'In monte Kilimandjaro regionis Dschagga 5500–7800 ped. 1864', *O. Kersten 32* (B20 0012874!, holo.).
Note: the identity of this plant is uncertain.

*Asplenium decrescens* Kunze in Linnaea 24: 261 (1851a).
Type: Nilgiris, *Schmid.-Koch. 99 et 122* (not located). Identity unknown.

*Asplenium erectum* Bory ex Willd. var. *harpeodes* (Kunze) Mett. in Abhandlungen herausgegeben von der Senckenbergischen Naturforschenden Gesellschaft 3,1: 166 (1859b).
Type: Mexico, *F.E. Leibold 26* (B20 0015775!, B20 0015776!, lecto.), designated by Morton & Lellinger (1966: 15); (P, isolecto.).
Note: Mickel & Smith (2004: 99) consider the taxon to be confined to the Americas.

*Asplenium furcatum* Thunb. var. *alpinum* Kuhn, Filices africanae: 22 (Oct. 1868).
Type: 'Ins. Comorae. In insulae Angasiliae monte ignivomo 6000–9000 ped. Majo 1864', *O. Kersten 39* (not located). Identity unknown.

*Asplenium obliquum* Wall., A numerical list of dried specimens: no. 2217 (1829), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3], non G.Forst. (1786b: 80). Identity unknown.

*Asplenium palmatifidum* T.Moore, Index filicum 2,13: 151 (Dec. 1859d), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Identity unknown.

*Asplenium plantagineum* L., Species plantarum, edn 2, 2: 1537 (Aug. 1763), nom. superfl.
Provenance: "Habitat in Jamaica". Neotype: 'Jamaica. Parish of St Catherine, Hollymount, Mt. Diablo', *W.R. Maxon 1949* (US 428301), designated by Proctor (1985: 394); (BM, NY, 2 sheets, isoneo.).
= **Diplazium plantaginifolium** *(L.) Sw*.

*Asplenium pteridis* (Bory) Kuhn, Filices africanae: 113 (Oct. 1868). See *Darea pteridis* Bory.

*Asplenium retusum* Poir. in Encyclopédie méthodique, Botanique. Supplementum 2,2: 503 (3 Jul. 1812).
Type: 'Cette plante croît à l'île de Bourbon', *J.B.G.M. Bory de St.-Vincent s.n.* (Herb. Desv.). Identity unknown.

*Asplenium semidentatum* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 27, t. 38, fig. 1 (1866a).
Type: 'Habitat in insula Borbonica', *De Montbrison s.n*. (not located). Identity unknown.

*Asplenium subavenium* Hook., Species filicum 3,10/12: 143, pl. 181B (Nov. 1859–Apr. 1860).
Type: 'Trunks of trees, Madagascar', *W. Bojer s.n*. (K?, holo.). Identity unknown.

*Asplenium trichomanes-dentatum* L., Species plantarum 2: 1080, 1081 (1 May 1753).
Lectotype: "*Trichomanes latifolium dentatum*" in Plumier, Traité des fougères de l'Amerique: 58, t. 101C (1705), designated by Morton & Lellinger (1966: 25).
= **Asplenium dentatum** *L*., [McNeill *et al.* (2006) Art. 23.8, Ex. 19], a species native to North America.

*Blechnum arborescens* Noronha ex Thouars, Mélanges de botanique et des voyages (1811). Identity unknown.

*Blechnum indicum* Noronha ex Thouars, Mélanges de botanique et des voyages: (1811). Identity unknown.

*Blechnum seminudum* Willd., Phytographia: 13, 14, t. 8, fig. 2 (Sep. 1794).
Type: "Habitat in Guinea", [Martinique], *P.E. Isert s.n*. (B-W 19587!, holo.). See *Taenitis seminuda* (Willd.) Kuhn.
= **Cochlidium seminudum** *(Willd.) Maxon*.

*Blechnum unguiculatum* (Fée) Kuhn, Filices africanae: 94 (Oct. 1868). See *Lomaria unguiculata* Fée.

**Cheilanthes pulchella** *Bory ex Willd*., Species plantarum, edn 4, 5, 1: 456 (25–27 Jun. 1810).
Type: 'Habitat in rupibus Teneriffae', *sine coll. s.n*. (not located).
Notes: two collections from Teneriffe are present in the Willdenow Herbarium. B-W 20117-01 0 is a Bory de Saint-Vincent collection, while B-W 20117-02 0 is a Broussonet collection. One of these collections may be eligible as a lectotype.
Distribution: Canary Isl.

**Cochlidium seminudum** *(Willd.) Maxon* in Scientific survey of Porto Rico and the Virgin Islands 6: 407 (1926).

*Cyathea borbonica* Desv. f. *madagascariensis* (Kaulf.) C.Chr. in Dansk Botanisk Arkiv 7: 21 (1932b). See *Cyathea madagascariensis* Kaulf.

*Cyathea borbonica* Desv. var. *laevigata* (Bory ex Kaulf.) Bonap. in Notes Ptéridologiques 9: 49 (10 Feb. 1920a). See *Cyathea laevigata* Bory ex Kaulf.

*Cyathea borbonica* Desv. var. *madagascariesis* (Kaulf.) Bonap. in Notes Ptéridologiques 9: 49 (10 Feb. 1920a). See *Cyathea madagascariensis* Kaulf.

*Cyathea borbonica* Desv. var. *pervilleana* (Fée) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 20 (Feb. 1932a). See *Cyathea pervilliana* Fée.

*Cyathea borbonica* Desv. var. *simulans* (Baker) C.Chr. in Catalogue des plantes de Madagascar. Pteridophyta: 20 (Feb. 1932a). See *Alsophila simulans* Baker.

*Cyathea canaliculata* Bory ex Kaulf. var. *laevigata* (Bory ex Kaulf.) Mett. ex Kuhn, Filices africanae: 163 (Oct. 1868). See *Cyathea laevigata* Bory ex Kaulf.

*Cyathea canaliculata* Kaulf. var. *rufescens* Mett. ex Kuhn, Filices africanae: 163 (Oct. 1868).
Note: synonym of *Cyathea madagascariensis* Kaulf.

*Cyathea commersoniana* Fée, Cinquième mémoires sur la famille des fougères: 352 (1852).
Type: 'Habitat in insula Mauritii', *Commerson s.n*. 1773 (not located). Identity unknown.

*Cyathea discolor* Fée, Cinquième mémoires sur la famille des fougères: 353 (1852), nom. illeg., non Bory (1829: 218). Identity unknown.
Type: Île de France, *Bory de St.-Vincent s.n*. (not located).

*Cyathea laevigata* Bory ex Kaulf., Enumeratio filicum: 256 (Oct. 1824).
Type: 'Habitat in Madagascaria', *L.-M.A. du Petit-Thouars s.n*. (B-W 20181-01 0, holo.; ?P, iso.).
Note: identity unknown.

*Cyathea madagascariensis* Kaulf., Enumeratio filicum: 257 (Oct. 1824), as '*madagascarensis*'.
Type: "Habitat in Madagascaria", *L.-M.A. du Petit-Thouars s.n*. (B-W 20166!, holo.).
Note: identity unknown.

*Cyathea pervilliana* Fée, Cinquième mémoires sur la famille des fougères: 352, 353 (1852).
Type: 'Habitat in Nos Beh Madagascariensium', *A. Pervillié s.n*. (?K, holo., 'ex herb. Fée').
Note: identity unknown.

*Cyathea remotifolia* Bonap. in Notes Ptéridologiques 5: 51, 52 (10 Dec. 1917d).
Type: Madagascar. 'Règions floristique de l'Est et du Centre. Forêt d'Analamazoatra, 800 m, Dec.', *H. Perrier de la Bâthie 6121* (P00404227, holo.; P00404226, iso.).

*Cyathea robusta* Bojer in Wall., A numerical list of dried specimens: no. 182 (1829), nom. nud.
Type: Mauritius, *Bojer s.n*. (not located).
Note: identity unknown.

*Ctenitis speciosa* sensu Alston, The ferns and fern-allies of West tropical Africa, being a second edition of the Flora of West tropical Africa: 71 (1959b), p.p.

*Cyclosorus lucidus* (Baker) Tardieu in Flore de Madagascar et des Comores, 5e Famille—Polypodiacées (sensu lato) [5(1) Dennstaedtiacées—(10) Aspidiacées]: 287 (May 1958b). See *Nephrodium lucidum*.

*Darea pteridis* Bory in Voyage aux Indes Orientales. Botanique 2,1: 52 (25 May 1833). Identity unknown.

*Diacalpe madagascariensis* Fée, Cinquième mémoires sur la famille des fougères: 339 (1852).
Type: 'Habitat in insulâ Nos Beh Madagascariensium', *A. Pervillié s.n*. (P?, holo.). Identity unknown.

**Didymoglossum motleyi** *(Bosch) Ebihara & K.Iwats*. in Ebihara *et al*. Blumea 51,2: 236 (2006).
*Trichomanes motleyi* Bosch in Nederlandsch Kruidkundig Archief 5,3: 145 (1861b).
Type: 'Ins. Borneo (pr. Laboan)', *Motley s.n*. (Herb. Hooker, not located).

**Didymoglossum punctatum** *(Poir.) Desv*. in Mémoires de la Société Linnéenne de Paris 6: 330 (Jul. 1827).
*Trichomanes punctatum* Poir., Encyclopédie méthodique. Botanique 8: 64 (1808).
Type: 'Cette plante croît à la Martinique', *sine coll. s.n*. (not located).
Notes: Tardieu-Blot (1951b: 27), as a synonym of *T. bipunctatum*, cites *P. punctatum* H.Christ (1896: 336) (non Poir.). Christ, however, does not describe the species, but gives Poiret as the author, and cites several collections from the Samoan Islands. The species does not occur in the defined area.

*Diplazium tomentosum* Blume, Enumeratio plantarum Javae 2: 192 (15 Dec. 1828).
Type: 'Crescit in Javae sylvis altioribus', *Blume s.n.* (L 0051073, holo.). Identity unknown.

*Dryopteris filix-mas* Schott subsp. *elongata* sensu Bonap. in Notes Ptéridologiques 10: 142 (18 Mar. 1920d), non *Dryopteris elongata* Kuntze (1891: 811).
Notes: Bonaparte cites a P.P. Camboué collection from Madagascar, which I have not seen. The correct placement of this name remains obscure.

*Dryopteris gabonensis* Bonap. in Notes Ptéridologiques 14: 208 (23 Nov. 1923a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Identity unknown.

*Dryopteris grosii* Bonap. in Notes Ptéridologiques 1: 94 (14 Jul. 1915c), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3]. Identity unknown.
Type: 'Côte de l'Ivoire', *Cervoni s.n.* (not located).

*Dryopteris lucida* (Baker) C.Chr., Index filicum: 276 (18 Nov. 1905). See *Nephrodium lucidum*.

*Elaphoglossum leptophyllum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 23 (1929), non (Fée) T.Moore (1857i: 11). Identity unknown.

*Elaphoglossum marginatum* (Wall. ex Fée) T.Moore, Index filicum: 2,1: 11 (1857i); 2,31: 361 (1862c). See *Acrostichum marginatum* Wall. ex Fée.

*Elaphoglossum martinicense* (Desv.) T.Moore var. *obtusum* C.Chr. in Transactions of the Linnean Society of London. Botany 7,19: 422 (Nov. 1912).
Type: 'Mahé', *J. Horne 676* (not located); 'Mahé', *J.S. Gardiner s.n.* (not located). Identity unknown.

*Elaphoglossum simplex* sensu Peter in Feddes Repertorium, Beiheft 40,1: 23 (1929), non Schott (1835: pl. 14). Identity unknown.

*Equisetum capense* Burm.f., Flora indica: 27 (1 Mar.–6 Apr. 1768b).
= **Elegia capensis** *(Burm.f.) Schelpe* (Restionaceae).

*Filices* Adans., Familles des plantes 2: 16 (Jul.–Aug. 1763), nom illeg. [McNeill *et al.* (2006) Art. 18.3].
Type: *Filix* Adans., non Séguier (1754: 53), nec Ludwig (1757: 142).
Note: the name is discussed by Pichi Sermolli (28 Sep. 1970b: 239–241).

*Grammitis isertii* Sw., Adnotationes botanicae: 65 (25 May 1829), nom. nov. et superfl., as '*iserti*'.
Type: Based on *Blechnum seminudum* Willd. (1794: 13).
Note: given as a synonym of *Taenitis seminuda* (Willd.) Kuhn.

*Hymenophyllum anisopterum* Peter in Feddes Repertorium, Beiheft 40,1: 15, Anhang 1 tab. 1, fig. 2 (1929).
Type: 'DOAfr., Kilimandscaro: beim Wasserfall ahb. des Bismarckhügels 2885 l', *A. Peter 890 bis* (GOET, holo.). Identity unknown.

*Hymenophyllum laeve* Buch.-Ham. ex Wall., A numerical list of dried specimens: no. 2198 (1830), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Type: 'Mauritio', *N. Wallich s.n.* (not located).

**Hymenophyllum wilsonii** *Hook*., Species filicum 1,2: 95 (Apr. 1844b).
*H. tunbridgense* (L.) Sm. var. *wilsonii* (Hook.) Hook., Synopsis filicum 3: 67 (22 Jan. 1867a), as '*wilsoni*'.
Note: Hooker based this species on British material and noted that the species also occurs in South Africa (Cape of Good Hope) and Bourbon (Réunion). He later (1867a: 67) described it as a variety of *Hymenophyllum tunbridgense* (L.) Sm. and noted that the oldest name for the taxon is *H. peltatum* (Poir.) Desv. However, the chromosome number for this taxon is 2n = 36 (Clapham *et al*. 1952: 17), whereas that of *H. peltatum* is 2n = 22 (Tindale 1963: 16). *H. wilsonii* occurs in Great Britain, Ireland, France, Norway and Macaronesia.

*Isoetes setacea* Lam. var. *delilei* Bory in Comptes rendus hebdomadaires des séances de l'Académie des Sciences 18,26: 1165 (1844), non *I. delilei* Rothm. (1944: 72).
Type: 'Mare de Gramont', *sine coll. s.n*. (not located); 'entre lacs el Mehla et el-Houbéira',

*sine coll. s.n.* (not located); 'dans les sables d'Aïn-Treard', *sine coll. s.n*. (not located); 'flagues stagnantes jusque près du douair de Ben-Atia', *sine coll. s.n*. (not located).

*Lemmaphyllum microphyllum* C.Presl, Epimeliae botanicae: 263 (1851).
Type: 'Habitat in Japonia', *P.F. von Siebold s.n*. (L0051779, L0051780, holo.).
Note: Kuhn (1868: 58) cites a specimen from Réunion (*La Maire s.n*.), but the species does not occur in the defined region. Cordemoy (1895) does not list the name either. See *Taenitis microphylla* (C.Presl) Mett. ex Kuhn.

*Lindsaea flabellata* Dryand. var. *gigantea* Hook., Species filicum 1,4: 211, pl. 63C (1 Jan. 1846).
Type: 'Assam and Khasiya hills', *W. Griffith s.n*. (K, lecto.), designated by Kramer (1971b: 208).
Note: this is a synonym of *Lindsaea javanensis* Blume and erroneously recorded for Madagascar (Tardieu-Blot 1958b: 34).

*Lomaria eriopus* Kunze in Linnaea 13: 152 (1839).
= **Stangeria eriopus** *(Kunze) Baill*. (Stangeriaceae).

*Lomaria unguiculata* Fée, Cinquième mémoires sur la famille des fougères: 70, 71 (1852), as '*unguiculatum*'.
Type: 'Habitat in insulâ Madagascariensi', *A. Pervillié s.n*. (not located). Identity unknown.

*Lomariopsis orbiculata* (Poir.) Alston in Journal of Botany, British and Foreign 72,861, Supplement: 6 (1934a), species dubia (Holttum 1939: 62).

*Lomariopsis sorbifolia* (L.) Fée, Mémoires sur la famille des fougères 2: 69 (1845a). See *Acrostichum sorbifolium* L.

*Lycopodium hieronymi* Herter in Hedwigia 49: 89 (1909b).
Type: 'Südafrika: Klein Namaland. Kamaggas, Juli 1904', *L. Schultze 196* (B20 051642!, holo.).
= **Crassula lycopodioides** *Lam*. (Crassulaceae).

*Lycopodium proliferum* Blume, Enumeratio plantarum Javae 2: 265 (15 Dec. 1828).
Type: 'Crescit in arboribus montis Gede Javae', *Blume s.n.* (L0057380, L0057381, lecto.; P, isolecto.).
= **Huperzia prolifera** *(Blume) Trevis*.

*Lycopodium sparsifolium* Desv. in Encyclopédie méthodique, Botanique. Supplementum 3,2: 553, 554 (3 Sep. 1814).
Type: 'Croît dans les îles de l'Afrique', *A.N. Desvaux s.n*. (?P).
Notes: said to be a synonym of *Selaginella mnioides* (Sieber) Spring. The type is in error from Mauritius.

*Lycopodium ulicifolium* Sw., Synopsis filicum: 177 (Mar.–Apr. 1806b).
Type: 'India orientalis', *sine coll. s.n*. (not located).
= **Huperzia ulicifolia** *(Sw.) Trevis*.

*Lygodium pinnatifidum* Sw. in Journal für die Botanik (H.A. Schrader, ed.) 1801,2: 303 (1803).
Type: Sine loc., *sine coll. s.n.* (not located).

*Nephrodium lucidum* Baker in The Gardeners' Chronicle and Agricultural Gazette 8: 456 (13 Oct. 1877c).
Type: Madagascar, *W. Pool s.n*. (K000435821, holo.).
Note: Holttum (1974b: 161) concluded that the plant, said to have been sent to Kew from Madagascar, closely resembles *Aspidium laeve* Mett. from the Philippines, and that the plant labels may have been misplaced.
= **Pneumatopteris laevis** *(Mett.) Holttum.*

*Nephrodium patens* (Sw.) Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 258 (Jul. 1827).
See *Polypodium patens* Sw.
Distribution: St Helena.

*Nephrodium plantianum* Pappe & Rawson, Synopsis filicum africae australis: 14 (1858).
Type: 'In the dense forests of Natal', *Plant 341* (not located).

*Notholaena setigera* Desv. in Journal de botanique, appliquée à l'agriculture, à la pharmacie, à la médecine et aux arts 1: 93 (1813).
Type: 'Habitat insulis africinnis', *sine loc. s.n.* (not located). Identity unknown.

*Olfersia glabrescens* C.Presl, Tentamen pteridographiae: 234 (1836). See *Acrostichum glabrescens* (C.Presl) Kuhn.

*Phegopteris blepharodes* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 5: 89 (1857b).
Type: 'Bourbon', *De Montbrison s.n*. (not located). Identity unknown.

*Phegopteris deltoidea* Mett., MS.
Note: this is a manuscript name of Mettenius listed under *Phegopteris mollis* by Kuhn (1868: 123).

*Phegopteris elata* Fée, Cinquième mémoires sur la famille des fougères: 247 (1852).
Type: 'Habitat in insulâ Borboniâ', *De Montbrison s.n*. (not located). Identity unknown.

*Platyzoma microphyllum* R.Br. in Kuhn, Filices africanae: 166 (Oct. 1868).
Note: Kuhn reports the species for Madagascar, but it is confined to Australia.

*Pleopeltis nicklesii* (Tardieu) Alston in Boletim da Sociedade Broteriana, sér. 2, 30: 22 (1956a).
Note: Zink (1993) suggested that this is a *Microgramma* species.

*Polypodium adnascens* sensu Balf.f. in Philosophical Transactions of the Royal Society of London 168: 387 (1879), non Sw. (1806b: 25, 222). Identity unknown.

*Polypodium australe* sensu Hemsl., Report on the scientific results of the voyage of H.M.S. Challenger 1,3,2: 196 [1884] (Mar.–Jun. 1885b).

*Polypodium fuscopunctatum* sensu Peter in Feddes Repertorium, Beiheft 40,1: 30 (1929), non Hook. (1864a: 69), as '*fusco-punctatum*'. Identity unknown.

*Polypodium glaucophyllum* Kunze var. *β* Hook., Species filicum 5,17: 18 (May 1864a).
Type: 'Abeokuta, tropical West Africa', *Dr. Irving 41* (not located). Identity unknown.

*Polypodium glaucophyllum* Kunze var. *irvingii* Kunze ex F.Ballard in Bulletin of Miscellaneous Information, Royal Gardens, Kew 1937,6: 348 (1937).
Type: 'Africa occidentalis. Abeokuta', *E.G. Irving 41* (not located).
Note: the origin of the material is suspect as the species has never been recorded from tropical Africa since the original collection was made.

*Polypodium hirtum* Sw., Nova genera & species plantarum. Prodromus: 133 (1788).
Type: 'Jamaica', *Swartz s.n.* (S, Herb. Swartz, holo.; S, B-W19802, UPS-Thunb 244666, iso.).
= **Ctenitis hirta** *(Sw.) Ching*, a native of tropical America.

*Polypodium integerrimum* Noronha ex Thouars in Mélanges de botanique et des voyages (1811). Identity unknown.

*Polypodium irvingii* Kuhn, Filices africanae: 147 (Oct. 1868), nom. nov. for *Polypodium glaucophyllum* Hook. var. *β*, non Kunze ex Klotzsch (1847: 393). See *Polypodium glaucophyllum* Kunze var. *β* Hook.

*Polypodium laciniatum* Noronha ex Thouars in Mélanges de botanique et des voyages (1811). Identity unknown.

*Polypodium macrorhynchum* Baker in Journal of Botany, British and Foreign 1880,9: 370 (1880b).
Type: Madagasar. 'Tanala', *L. Kitching s.n.* (K000435901, holo.).
= **Ctenopteris** sp.

*Polypodium melleri* Baker in Synopsis filicum 9: 359 (29 Jan. 1868a).
Type: 'Madagascar', *C.J. Meller s.n.* (not located). Identity unknown.

*Polypodium microcarpum* P.Willemet in Annalen der Botanik (P. Usteri, ed.) 18: 63 (1796).
Type: 'Habitat in sylvis des plaines St Pierre', *sine coll. s.n.* (not located). Identity unknown.

*Polypodium nicklesii* Tardieu in Bulletin de la Société Botanique de France 90,1/6: 97, pl. 1, figs 3–5 (1943), as '*nicklesi*'. See *Pleopeltis nicklesii* (Tardieu) Alston.
Type: Guinea. "Kéniékoudé. Monte sur les rochers et les troncs d'arbes jusqu'à une hauteur de 6 m. envuiron.", *Nicklès 9* (P, holo.; BM, Z, P, iso.).

*Polypodium patens* Sw., Nova genera & species plantarum. Prodromus: 133 (20 Jun.–29 Jul. 1788).
Type: "Jamaica", *O. Swartz s.n.* (S-PA, lecto.; B-Willd. 19773, isolecto.), designated by Smith (1971: 72).

*Polypodium pedicularis* P.Willemet in Annalen der Botanik (P. Usteri, ed.) 18: 62 (1796).
Type: 'Habitat in sylvis aux plaines St Pierre', *sine coll. s.n.* (not located). Identity unknown.

*Polypodium pteroides* Retz., Observationes botanicae 6: 39 (Jul.–Nov. 1791).
Type: 'Ceylon', *König s.n.* (not located).

*Polypodium scutifrons* Bojer, Hortus mauritianus: 417 (1837).
Type: 'Ile Maurice', *sine coll. s.n.* (not located). Identity unknown.

*Polypodium trichomanoides* Sw., Nova genera & species plantarum. Prodromus: 131 (20 Jun.–29 Jul. 1788).
Type: "Habitat in Jamaica", *O. Swartz s.n.* (S, 3 sheets; B-W 19670!, FI, UPS-Thunb, SBT, iso.).
= **Micropolypodium trichomanoides** *(Sw.) A.R.Sm.*

*Pteris croesoides* Fée in Mémoires de la Société des Sciences Naturelles de Strasbourg 6,1: 17 (1866a), nom. nud. [McNeill *et al.* (2006) Art. 32.1(d) & Art. 41.3].
Notes: Fée ascribed no material to the name at the time of publication, but Kuhn (1868: 79) ascribed a De Montbrison collection from Réunion to it. This collection could not be located and the identity of the taxon remains obscure.

*Pteris mauritiana* P.Willemet in Annalen der Botanik (P. Usteri, ed.) 18: 61 (1796).
Type: 'Habitat Mauritiae in sylvis des plaines de St Pierre', *sine coll. s.n.* (not located). Identity unknown.

*Pteris pellucida* C.Presl, Reliquiae haenkeanae 1: 55 (1825).
Type: 'Habitat in insula Luzon', *T. Haenke s.n.* (not located). Identity unknown.

*Pteris pyrophylla* Blume, Enumeratio plantarum Javae 2: 212 (15 Dec. 1828).
Type: "Java", *sine coll. s.n.* (L0053151, holo.).
Note: Kuhn (1868: 89) cites material of this species from Madagascar, Mauritius and the Cape, but it does not occur there.

*Sagenia apiifolia* (Schkuhr) J.Sm. in Journal of Botany (W.J. Hooker, ed.) 4: 184 (1842a).
= **Tectaria cicutaria** *(L.) Copel.* a native of the Antilles and the Americas.

*Salvinia adnata* Desv. in Mémoires de la Société Linnéenne de Paris 6,2: 177 (Jul. 1827).
Type: Given as 'Hab. in aquosis insularum Africae orientali', but most likely from tropical America, *sine coll. s.n.* (P, holo.).
Note: this is a synonym of *Salvinia auriculata* Aubl., a native of the Americas, but now naturalised in many parts of the world.

*Taenitis microphylla* (C.Presl) Mett. ex Kuhn, Filices africanae: 58 (Oct. 1868), excl. exsicc.
= **Lemmaphyllum microphyllum** *C.Presl,* a species native to Japan, S. Korea, China and Taiwan.

*Taenitis seminuda* (Willd.) Kuhn, Filices africanae: 59 (Oct. 1868).
Note: this species has been assigned to Africa by Kuhn (1868: 59) under the name *Taenitis seminudata*, but it does not occur there (Bishop 1978: 84, 85). It is a native of Jamaica, Hispaniola, Puerto Rico, Lesser Antilles, Trinidad and Venezuela.
= **Cochlidium seminudum** *(Willd.) Maxon.*

*Trichomanes myriophyllum* Desv. in Mémoires de la Société Linnéenne de Paris 6: 329 (Jul. 1827).
Type: 'Habitat in Madagascaria', *sine coll. s.n.* (P?). Identity unknown.

*Trichomanes obscurum* Blume, Enumeratio plantarum Javae 2: 227 (15 Dec. 1828).
= **Abrodictyum obscurum** *(Blume) Ebihara & K.Iwats*.

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# ABBREVIATIONS

| | |
|---|---|
| Apr. | April |
| Art. | Article (as used in McNeill *et al.* (2006) in the International Code of Botanical Nomenclature) |
| auct. | auctoris/auctorum (of an author or authors) |
| Aug. | August |
| Beibl. | Beiblatt |
| Feb. | February |
| coll. | collector |
| comb. | combination |
| comb. illeg. | combination illegitimate |
| comb. nov. | combinatio nova (new combination) |
| Dec. | December |
| diam. | diameter |
| DRC | Democratic Republic of the Congo |
| ed. | editor |
| edn | edition |
| eds | editors |
| emend. | emendatus / emended |
| err. | error |
| et al. | et alii/et alliorum (and others/and of others) |
| excl. | excluding |
| excl. syn. | excluding synonym |
| exsicc. | exsiccata (an exsiccata) |
| f. | forma |
| Feb. | February |
| fig./figs | figure/figures (in other works) |
| fragm. | fragment |
| holo. | holotype |
| hort. | hortus (garden) or hortensis (of a garden) |
| Isl. | Island |
| iso. | isotype |
| isolecto. | isolectotype |
| Jan. | January |
| Jun. | June |
| Jul. | July |
| lecto. | lectotype |
| Mar. | March |
| n.s. | new series |
| nom. abort. | nomen abortum (aborted name) |
| nom. cons. | nomen conservandus (conserved name) |
| nom. illeg. | nomen illegitimum (illegitimate name) |
| nom. nov. | nomen novum (new name) |
| nom. nud. | nomen nudum (name published without a description or reference to a published description) |
| nom. superfl. | nomen superfluum (superfluous name) |
| nov. | novus (new) |
| Nov. | November |
| Oct. | October |
| pl./pls | plate/plates |
| p.p. | pro parte (in part) |
| prepr. | preprinted |
| sect. | section |
| Sep. | September |
| ser. / sér. | series |
| s. descr. | sine descriptio (without description) |
| s. lat. | sensu lato (in a wide sense) |
| s. loc. | sine loco (without locality) |
| s.n. | sine numero (without number) |
| sp. | species (singular) |
| sp. nov. | species nova (new species) |
| s. str. | sensu stricto (in a narrow sense) |
| stat. | status (status) |
| subf. | subforma |
| subfam. | subfamily |
| subsp. | subspecies (singular) |
| subvar. | subvariety |
| suppl. | supplement |
| syn. | syntype |
| synon. subst. | synonym substitute |
| t. | tabula |
| tr. | tribus (tribe) |
| typ. cons. | typus conservandus (conserved type) |
| var. | varietas (variety) |

## SYMBOLS

| | |
|---|---|
| ± | about |
| † | type destroyed |

Kuhn's *Filices africanae*, published in 1868, is the first and only account of a pteridophyte flora for Africa, Madagascar and the neighbouring regions (including the Canary Islands and Madeira). At the time, 683 species (excluding subspecific taxa) arranged in 59 genera were reported for the region.

Now, 140 years later, the *Synopsis of the Lycopodiophyta and Pteridophyta of Africa, Madagascar and neighbouring islands* provides a modern account of these plants for nearly the same geographical area, but excluding the Canary Islands and Madeira. The number of genera and species currently recognised for this region have more than doubled as this work accounts for 1 441 native and naturalised species (including subspecific taxa), arranged in 135 genera and 36 families.

The arrangement of the taxa in the *Synopsis* does not follow a particular classification, but the circumscription of the divisions, classes, orders and families, as presented here, are well supported by molecular evidence. Family, generic and species arrangements are alphabetical. Full reference details are provided for all names and, where applicable and available, type information is provided. Distribution within the defined region is by country only. References to cytological information are also given.



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