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Annotated list of taxonomic novelties published in "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10)

Uwe BRAUN & Konstanze BENSCH

Abstract: Braun, U. & Bensch, K. 2019: Annotated list of taxonomic novelties published in "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10). Schlechtendalia **36**: 1–60.

New taxa and new combinations published by G. L. Rabenhorst in "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum, Editio Nova, Series Secunda" Cent. 1 to 26 in the second half of the 19th century are listed and annotated. References, citations and the synonymy are corrected when necessary. The nomenclature of some taxa is discussed in more detail. The first part of this treatment comprises taxonomic novelties in Cent. 1 to 10. *Uredo tussilaginis* (≡ *Coleosporium tussilaginis*) is designated as lectotype species for the genus *Erannium*. This genus is a heterotypic synonym of *Coleosporium*.

Zusammenfassung: Braun, U. & Bensch, K. 2019: Kommentierte Liste taxonomischer Neuheiten publiziert in „Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 1 bis 26, herausgegeben von G. L. Rabenhorst zwischen 1859 und 1881 (erster Teil, Cent. 1 bis 10). Schlechtendalia **36**: 1–60.

Neue Taxa und Kombinationen publiziert von G. L. Rabenhorst in "Klotzschii Herbarium Vivum Mycologicum, Editio Nova" Cent. 1 bis 26 in der zweiten Hälfte des 19. Jahrhunderts werden aufgelistet und annotiert. Referenzangaben, Zitate und die Synonymie werden korrigiert falls notwendig. Die Nomenklatur einiger Taxa wird detaillierter besprochen. Der erste Teil dieser Bearbeitung umfasst Cent. 1 bis 10. *Uredo tussilaginis* (≡ *Coleosporium tussilaginis*) wird als Lectotypusart der Gattung *Erannium* ausgewählt. Diese Gattung ist ein heterotypisches Synonym von *Coleosporium*.

Key words: Fungi, nomenclature, exsiccata.

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Introduction

In 1832, Johann F. Klotzsch initiated the exsiccata "Herbarium Vivum Mycologicum" and issued Cent. 1 and 2. Gottlob L. Rabenhorst continued this exsiccata since 1842 and issued Cent. 3 to 20. An index was published by Rabenhorst (1851). Taxonomic novelties published in this exsiccata have been listed and annotated in Braun (2018a). Rabenhorst continued this exsiccata under the name "Klotzschii Herbarium Vivum Mycologicum, Editio Nova" and issued eight centuria between 1855 and 1858 [Series Prima]. Taxonomic novelties published in Editio Nova, Cent. 1–8 are included and annotated in Braun (2018b). Thereafter Rabenhorst continued his exsiccata with "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" and issued Cent. 1–26 between 1859 and 1881, followed by Cent. 27–36 (1881–1886) published by G. Winter. Otto Pazschke finished this series with Cent. 37–45, issued between 1890 and 1905. Details to this exsiccata, including data of the publication of the particular centuria and announcements in the journals Botanische Zeitung, Flora and Hedwigia are to be found in Kohlmeyer (1962). According to ICN, Art. 30.2 (Ex. 12), descriptions, new combinations and other taxonomic novelties on labels accompanying distributed specimens (exsiccata) are effectively published, i.e., valid names published on printed labels of distributed exsiccata have to be taken into consideration with regard to priority issues of taxa. However, experiences have shown so far that names published in exsiccata have often been neglected or wrongly cited in nomenclature databases and taxonomic treatments. The particular centuria of "Herbarium Vivum Mycologicum" and "Fungi Europaei Exsiccati" were prepared and, when ready to be distributed, announcements in several botanical journals were published, i.e., descriptions on printed labels in the exsiccata have priority and names (with repeated descriptions) in the journals are later isonyms (Art. 6.3, Note 2) that have to be disregarded. In some cases, particular centuria were issued even one calendar

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year earlier [e.g., Fungi Europaei Exsiccati, Cent. 3 in 1860, but announcements in Botanische Zeitung 19 and Flora 44 in 1861]. Numerous names appearing in exsiccata are nomina nuda (without any descriptions or diagnoses) which were validated in later publications by the original author or other authors, either as "ex cases" or as "combinations" under other generic names. In the latter case, the validated names must be attributed to the validating authors alone. The present work was performed in consultation with Index Fungorum and MycoBank, i.e., the results are also meant to be groundwork for these databases.

An almost complete set of "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" preserved in HAL was the base for the present nomenclatural study and reassessment of names. Cent. 10 is not preserved at HAL. Scans of labels with taxonomic novelties from Cent. 10 have been prepared on the basis of duplicates preserved at the herbarium in Berlin (B) and Munich (M). Some types have been re-examined in order to clarify the identity of the taxa concerned. In other cases, currently used and recognized names are cited and highlighted in bold.

Annotated list of taxa

Cent. 1

Polyporus nigricans Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 15, 1859 [Bot. Zeitung **17**: 295, 1859; Flora **42**: 433, 1859], nom. illeg. (Art. 53.1).
Notes: This name was published with a description, but it is a homonym of *Polyporus nigricans* Fr., 1821, and synonymous with *Trametes versicolor* (L.) Lloyd (fig. 1).

Rabenhorst, Fungi europaei.
15. Polyporus nigricans Lasch Mspt.
Polyp. velutinus variet. Fr. Syst.
Pileo suberoso-coriaceo tenuiusculo utrinque plano, velutino, zonato nigricante opaco, margine tenui albo, poris minoribus e subrotundo-obtusangulis albis pallescentibus.
Ad trunc. Fagi, Carpini pr. Driesen leg. Lasch.

Fig. 1

Polyporus rugulosus Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 16, 1859 [Bot. Zeitung **17**: 295, 1859; Flora **42**: 434, 1859], nom. illeg. (Art. 53.1).
Notes: This name was published with a description, but it is a homonym of *Polyporus rugulosus* Lév., 1844 (fig. 2).

Rabenhorst, Fungi europaei.
16. Polyporus rugulosus Lasch Mspt.
Polyp. velutinus Fr. Syst. variet.
Pileo suberoso-coriaceo leviter convexo velutino magis minusve zonato radiatim ruguloso subflavescenti-fusco, subtus plano, postice crassiusculo, margine acuto, poris minoribus subrotundis albis pallescentibus.
Ad trunc. Carpini et Betulae pr. Driesen leg. Lasch.

Fig. 2

Peziza avellanae Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 28, 1859 [Bot. Zeitung **17**: 296, 1859; Flora **42**: 434, 1859].
≡ ***Pezizella avellanae*** (Lasch) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 299, [1869-70] 1870.
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 28 (fig. 3).

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Rabenhorst, Fungi europaei.
28. Peziza Avellanae Lch.
Erumpens, sessilis subcarnoso — membranacea, alba pallescens; junior subrotunda, clausa, dein hemisphaerica subinfundibuliformis, extus puberula, margine inflexo; ascis clavatis, sporis oblongis.
In ramulis emortuis Coryli Avellanae prope Driesen leg. Lasch.

Fig. 3

Peziza pineti var. *abietis* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 31, 1859 [Bot. Zeitung **17**: 296, 1859; Flora **42**: 434, 1859].
Notes: This is a valid variety name with a diagnosis on the label of Fungi Eur. Exs. 31 (fig. 4).

Rabenhorst, Fungi europaei.
31. Peziza Pineti Batsch.
Var. Abietis Rabenh. diff. a forma typica disco obscuriori!
Wallendorf (Hungariae super., Zips) in sylvis montosis acus Abietis emortuas humi jacentes occupat; Aprili 1859 leg. Kalchbrenner.

Fig. 4

Sphaeria chlorospora Ces., Erb. Critt. Ital., Ser. 1, Fasc. **2**: no. 296, 1859 [Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 48, 1859; Bot. Zeitung **17**: 296, 1859; Flora **42**: 434, 1859].
≡ ***Venturia chlorospora*** (Ces.) P. Karst., Bidr. Känn. Finl. Nat. Folk **23**: 189, 1873.
Notes: This species name was published on the label of Fungi Eur. Exs. 48 with a description and illustration (fig. 5). However, untile now it was not possible to clarify the exact dates when the two exsiccata were issued.

Rabenhorst, Fungi europaei.
48. Sphaeria chlorospora Ces. Mspt. et herb.
Sph. simplex, foliicola; peritheciis genuinis, minutissimis, sub epidermide nidulantibus, ea secedente liberatis, ovato-globosis, membranaceis, cellulis magnis pallide virentibus, nisi summo vertice carbonaceo fere, setis paucis nigris erumpentibus obsesso. — Paraphyses an nullae? an parcissimae cito diffluentes? — Asci curvuli, e cylindraceo clavati, sessiles? $^{48-50}/_{500}$ Mill. longi, inferius $^{6}/_{500}$, superne $^{8}/_{500}$ Mill. crassi, sporidiis octo, viridulis, didymis, ad septum vix constrictis $^{8-10}/_{500}$ Mill. longis, $^{4}/_{500}$ Mill. latis, arcte repleti.

1) *Pyrenium magnopere auctum.*
2) *Ejusdem portio auctior.*
3) *Assi aetate diversa, aucti.*
4) *Sporidia matura, id.*
Gregaria v. sparsa in utraque pagina foliorum Salicum (S. triandrae et albae) diu delapsorum. Acervula juvenilia obtecta nisi macula grisea in epidermide prodiuntur.
Vercellis: Mense Aprilis 1858. Cesati.

Fig. 5

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Sphaeria schistostroma Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 53, 1859 [Bot. Zeitung **17**: 303, 1859; Flora **42**: 435, 1859].
≡ *Fenestella schistostroma* (Duby ex Rabenh.) Cooke, Grevillea **14**(no. 70): 48, 1885.
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 53 (fig. 6).

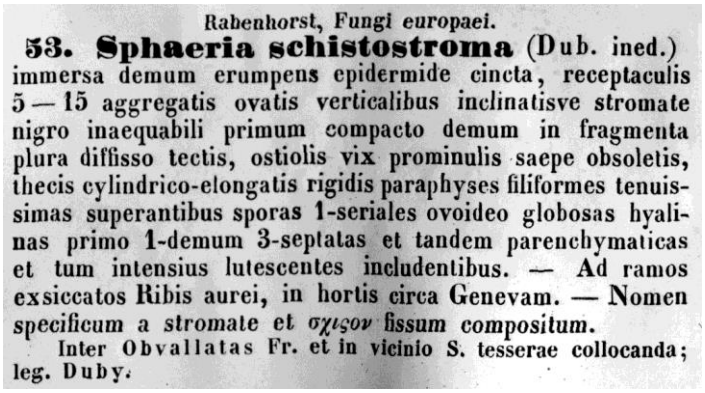
Rabenhorst, Fungi europaei.
53. Sphaeria schistostroma (Dub. ined.) immersa demum erumpens epidermide cincta, receptaculis 5—15 aggregatis ovatis verticalibus inclinatisve stromate nigro inaequabili primum compacto demum in fragmenta plura diffisso tectis, ostiolis vix prominulis saepe obsoletis, thecis cylindrico-elongatis rigidis paraphyses filiformes tenuissimas superantibus sporas 1-seriales ovoideo globosas hyalinas primo 1-demum 3-septatas et tandem parenchymaticas et tum intensius lutescentes includentibus. — Ad ramos exsiccatos Ribis aurei, in hortis circa Genevam. — Nomen specificum a stromate et σχιζον fissum compositum.
Inter Obvallatas Fr. et in vicinio S. tesserae collocanda; leg. Duby.

Fig. 6

Dothidea lycii Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 55, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].
≡ *Dothidea lycii* Duby, Mém. Soc. Phys. Hist. Nat. Genève **15**: 198, 1859.
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 55 (fig. 7). Rabenhorst (l.c.) published this species with the note "Dub. ined." suggesting that his publication in the exsiccata appeared at first, before Duby's publication in the journal.

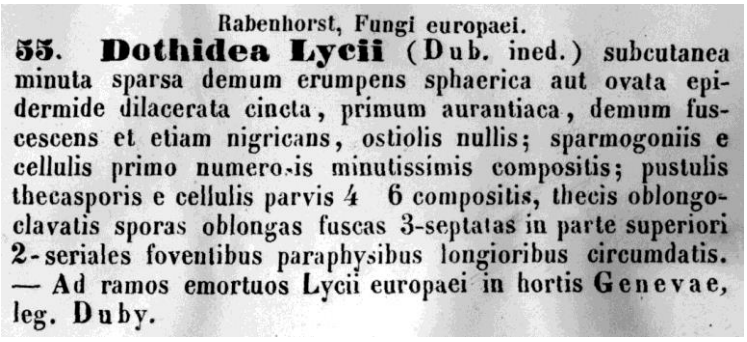
Rabenhorst, Fungi europaei.
55. Dothidea Lycii (Dub. ined.) subcutanea minuta sparsa demum erumpens sphaerica aut ovata epidermide dilacerata cincta, primum aurantiaca, demum fuscescens et etiam nigricans, ostiolis nullis; sparmogoniis e cellulis primo numerosis minutissimis compositis; pustulis thecasporis e cellulis parvis 4—6 compositis, thecis oblongo-clavatis sporas oblongas fuscas 3-septatas in parte superiori 2-seriales foventibus paraphysibus longioribus circumdatis. — Ad ramos emortuos Lycii europaei in hortis Genevae, leg. Duby.

Fig. 7

Isaria sulphurea Fiedl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 60, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].
≡ ***Chrysosporium sulfureum*** (Fiedl.) Oorschot & Samson, in Van Oorschot, Stud. Mycol. **20**: 28, 1980.
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 60 (fig. 8).

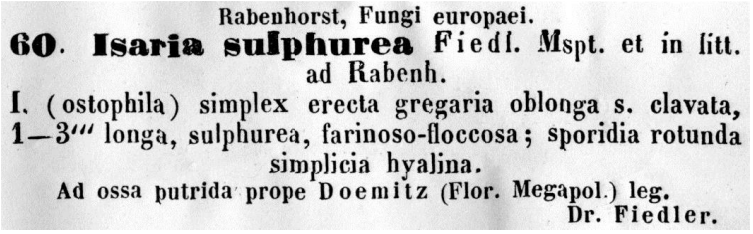
Rabenhorst, Fungi europaei.
60. Isaria sulphurea Fiedl. Mspt. et in litt. ad Rabenh.
I. (ostophila) simplex erecta gregaria oblonga s. clavata, 1—3''' longa, sulphurea, farinoso-floccosa; sporidia rotunda simplicia hyalina.
Ad ossa putrida prope Doemitz (Flor. Megapol.) leg. Dr. Fiedler.

Fig. 8

Arthrobotryum broomei Rabenh. [as "*broomii*"], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 65, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].
Notes: This is a valid species name with a diagnosis on the label of Fungi Eur. Exs. 65 (fig. 9).

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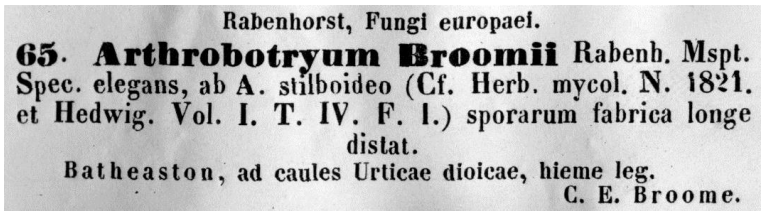
Rabenhorst, Fungi europaei.
65. **Arthrobotryum Broomii** Rabenh. Mspt.
Spec. elegans, ab A. stilboideo (Cf. Herb. mycol. N. 1821. et Hedwig. Vol. I. T. IV. F. I.) sporarum fabrica longe distat.
Batheaston, ad caules Urticae dioicae, hieme leg.
C. E. Broome.

Fig. 9

Fusarium betae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 69, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859], nom. nud.
≡ *Fusarium betae* Rabenh. ex A.B. Frank, Krankh. Pflanz. (Breslau): 601, 1880.
≡ *Cercospora betae* (Rabenh. ex A.B. Frank) Sacc., Syll. fung. **10**: 637, 1892.
= ***Cercospora beticola*** Sacc., Nuovo Giorn. Bot. Ital. **8**(2): 189, 1876.
Notes: This species name is a nom. nud., published without description on the label of Fungi Eur. Exs. 69 (fig. 10). *Fusisporium betae* Desm. was cited with a question mark, i.e., it was not cited as "basionym" for a combination. Frank (1880: 601) cited Rabenhorst's name, *Fusarium betae*, and added a diagnosis, i.e., he discussed differences between *Cercospora beticola* Sacc. and *F. betae*. Frank (l.c.) supposed that the latter species might belong to *Cercospora* ["Dagegen ist ein in dem Rabenhorstschen Exsiccaten unter dem Namen Fusarium Betae *Rabenh*. ausgegebener Pilz, wiewohl er eine Cercospora zu sein scheint, abweichend" (On the other hand, a fungus issued in Rabenhorst's exsiccata under the name Fusarium Betae *Rabenh*., which seems to a Cercospora, is different)]. In any case, the name "*Cercospora betae*", sometimes ascribed to Frank (l.c.), was not introduced in this work.

Rabenhorst, Fungi europaei.
69. **Fusarium Betae** Rabenh. Mspt.
Fusisporium Betae Desmaz. Cr. de Fr.? (nihil adest in meis spec.)
Ad folia Betae prope Doemitz (Flor. Megapol.) leg. Dr. Fiedler.

Fig. 10

Illosporium aurantiacum Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 74, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
≡ ***Erythricium aurantiacum*** (Lasch) D. Hawksw. & A. Henrici, Field Mycology **16**(1): 16, 2015.
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 74 (fig. 11).

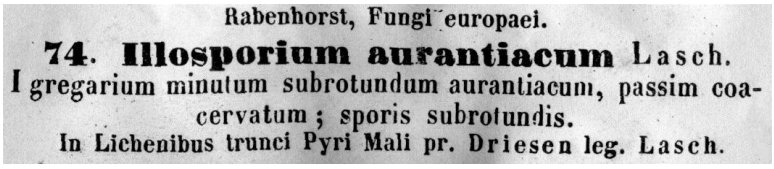
Rabenhorst, Fungi europaei.
74. **Illosporium aurantiacum** Lasch.
I gregarium minutum subrotundum aurantiacum, passim coacervatum; sporis subrotundis.
In Lichenibus trunci Pyri Mali pr. Driesen leg. Lasch.

Fig. 11

Peronospora dentariae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 86, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
≡ ***Hyaloperonospora dentariae*** (Rabenh.) Voglmayr, Mycol. Progr. **13**(1): 140 [2014] 2013.
Notes: This is a valid species name published with a diagnosis on the label of Fungi Eur. Exs. 86 (fig. 12).

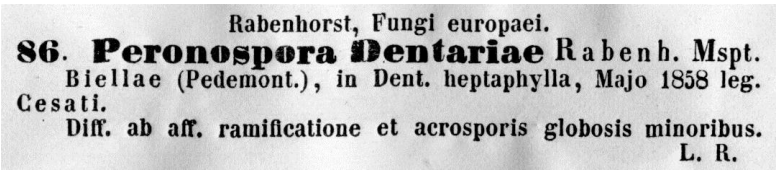
Rabenhorst, Fungi europaei.
86. **Peronospora Dentariae** Rabenh. Mspt.
Biellae (Pedemont.), in Dent. heptaphylla, Majo 1858 leg. Cesati.
Diff. ab aff. ramificatione et acrosporis globosis minoribus.
L. R.

Fig. 12

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Puccinia cirsii Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 89 (fig. 13).

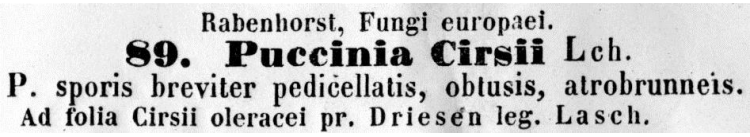
Rabenhorst, Fungi europaei.
89. Puccinia Cirsii Lch.
P. sporis breviter pedicellatis, obtusis, atrobrunneis.
Ad folia Cirsii oleracei pr. Driesen leg. Lasch.

Fig. 13

Uredo cirsii Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 90, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
≡ *Puccinia cirsii* Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 90 (fig. 14).

Rabenhorst, Fungi europaei.
90. Uredo Cirsii Lch.
U. sporis globosis, saturate-cinnamomeo-fuscescentibus.
Ad folia Cirsii oleracei pr. Driesen leg. Lasch.

Fig. 14

Uromyces inaequialtus Lasch in Rabenh. (as "*inaequialta*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 94, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 94 (fig. 15).

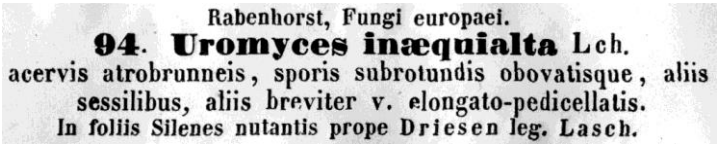
Rabenhorst, Fungi europaei.
94. Uromyces inæquialta Lch.
acervis atrobrunneis, sporis subrotundis obovatisque, aliis sessilibus, aliis breviter v. elongato-pedicellatis.
In foliis Silenes nutantis prope Driesen leg. Lasch.

Fig. 15

Gloeosporium veronicarum Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 97, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859], nom. inval. (Art. 36.1).
≡ *Gloeosporium veronicarum* Ces. ex Sacc., Syll. fung. **3**: 710, 1884.
≡ ***Discogloeum veronicarum*** (Ces. ex Sacc.) Petr., Ann. Mycol. **21**(3/4): 285, 1923.
Notes: This name was not validly published in Fungi Eur. Exs. 97 since it was not accepted in this publication (fig. 16, "pro inter." = ad int.).

Rabenhorst, Fungi europaei.
97. Gloeosporium Veronicarum.
Ces. hb. pro inter.
Ulterius examinandum; cirrhi nimis fugaces pro genere. Ex sporarum forma et compositione, ex cubiculo hypophleode etc. Gloeosporia propinquat; sed tenuissima videtur mucilago sporas adglutinans.
In fol. adhuc vigentibus Veron. officinalis, in Valle Andurnensi (Pedem., prov. Bugellae): autumni tempore leg. Cesati.

Fig. 16

Gloeosporium andurnense Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 98, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
≡ ***Marssonina andurnensis*** (Ces.) Magnus, Hedwigia **45**: 89, 1906.

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Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 98 (fig. 17).

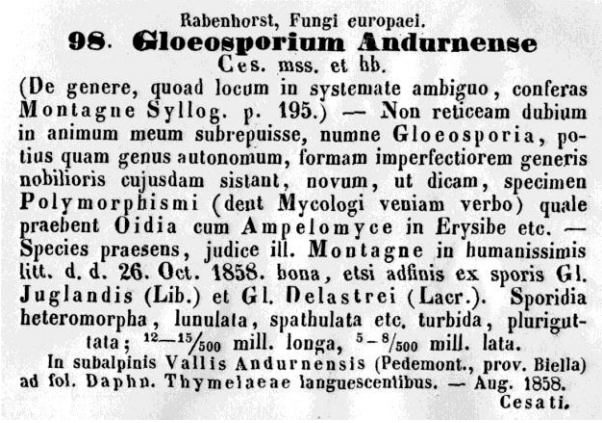
Rabenhorst, Fungi europaei.
98. Gloeosporium Andurnense
Ces. mss. et hb.
(De genere, quoad locum in systemate ambiguo, conferas Montagne Syllog. p. 195.) — Non reticeam dubium in animum meum subrepuisse, numne Gloeosporia, potius quam genus autonomum, formam imperfectiorem generis nobilioris cujusdam sistant, novum, ut dicam, specimen Polymorphismi (dent Mycologi veniam verbo) quale praebent Oidia cum Ampelomyce in Erysibe etc. — Species praesens, judice ill. Montagne in humanissimis litt. d. d. 26. Oct. 1858. bona, etsi adfinis ex sporis Gl. Juglandis (Lib.) et Gl. Delastrei (Lacr.). Sporidia heteromorpha, lunulata, spathulata etc. turbida, pluriguttata; 12—15/500 mill. longa, 5—8/500 mill. lata.
In subalpinis Vallis Andurnensis (Pedemont., prov. Biella) ad fol. Daphn. Thymelaeae languescentibus. — Aug. 1858.
Cesati.

Fig. 17

Caeoma subapiculosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 99, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].
Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 99 (fig. 18).

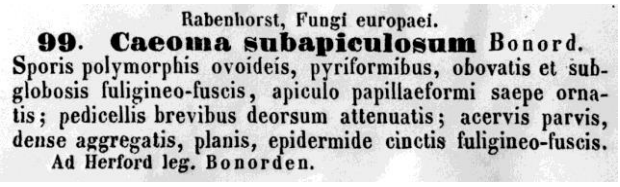
Rabenhorst, Fungi europaei.
99. Caeoma subapiculosum Bonord.
Sporis polymorphis ovoideis, pyriformibus, obovatis et subglobosis fuligineo-fuscis, apiculo papillaeformi saepe ornatis; pedicellis brevibus deorsum attenuatis; acervis parvis, dense aggregatis, planis, epidermide cinctis fuligineo-fuscis.
Ad Herford leg. Bonorden.

Fig. 18

Cent. 2

Sphaerella myriadea (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 149, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 746, 1860].
≡ *Sphaeria myriadea* DC., in de Candolle & Lamarck, Fl. franç., Edn 3 (Paris) **5**/**6**: 145, 1815.
≡ ***Sphaerulina myriadea*** (DC.) Sacc., Michelia **1**(4): 399, 1878.
Notes: This is a valid combination published in Fungi Eur. Exs. 149 (fig. 19).

Rabenhorst, Fungi europaei.
149. Sphaerella myriadea (De C.) Rabenh.
Mspt. Fr. Summ. Veg. Scand. 396.
Sphaeria myriadea D C. Flor. fr. VI. 148. Rabenh. Handb. I. p. 188. Desmaz. Crypt. de Fr. Ed. I. N. 1790. Ed. II. N. 1440.
In foliis aridis Quercus pr. Driesen leg. Lasch.

Fig. 19

Sphaerella conglomerata (Wallr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 150, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 746, 1860].
≡ *Sphaeria conglomerata* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 814, 1833.
≡ *Mycosphaerella conglomerata* (Wallr.) Lindau, in Engler & Prantl, Nat. Pflanzenfam., Teil. I (Leipzig) **1**(1): 424, 1897.
Notes: This is a valid combination published in Fungi Eur. Exs. 150 (fig. 20).

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Rabenhorst, Fungi europaei.
150. **Sphaerella conglomerata** (Wallr.) Rabenh.
Forma: Alnicola!
Sphaeria conglomerata a) Alni Desmaz. Crypt. de Fr. N. 1449.
Oestrich ad Rhenum in fol. Alni leg. L. Fuckel.

Fig. 20

Lophodermium laricinum Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 158, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].
Notes: This species was validly published with a description in Fungi Eur. Exs. 158 (fig. 21).

Rabenhorst, Fungi europaei.
158 **Lophodermium laricinum** (Dub. mém. inéd.)
Sparsum minutum emergens laeve sed epidermide matricis tenuissima subtillime lineolatum atro-nitidum ovatum convexo-cristatum, labiis tenuibus elavatis conniventibus sed lineam longitudinalem angustissimam convexam relinquentibus, thecis elongato-clavatis non pedicellatis, sporis filiformibus sporulas globosas 6—7 foventibus post disruptionem rectiusculis paulo divergentibus.
Ad folia sicca decolorata Laricis prope Cormayeur, ad radices australes Mont-blanc — Minutissimum ab ½—1/10 millometrum longum.

Fig. 21

Combosira (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].
≡ *Asteroma* [unranked] *Combosira* Fr., Summa veg. Scand., Sectio posterior (Uppsala): 425, 1849.
Type species: *Sphaeria reticulata* DC. (≡ *Guignardia reticulata* (DC.) Aa).
= ***Guignardia*** Viala & Ravaz, Bull. Soc. Mycol. Fr. **8**(2): 63, 1892, nom. cons. (Art. 14).
Notes: Fries (l.c) introduced *Asteroma* [unranked] *Combosira* with a brief description. He listed three *Asteroma* spp. under *Asteroma* [unranked] *Combosira*, including *A. reticulata*. In Fungi Eur. Exs. 159 (fig. 22), Rabenhorst introduced the genus name *Combosira* as combination based on *Asteroma* [unranked] *Combosira* and confined it to *Combosira reticulata*, which represents an indirect typification.

Rabenhorst, Fungi europaei.
159. **Combosira reticulata** (De C.) Rabenh.
Mspt. Fr. Summ. 425.
Sphaeria reticulata D. C. Flor. fr. 138. Rabenh. Handb. I. 188. Asteroma reticul. Chev. Desmaz. Crypt. de Fr. Ed. I. N. 1339. Ed. II. N. 739.
In foliis Convall. multifl. ad Olaszinum (Wallendorf in der Zips) Septbr. 1859 leg. Kalchbrenner.

Fig. 22

Combosira reticulata (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].
≡ *Sphaeria reticulata* DC., in de Candolle & Lamarck, Fl. franç., Edn 3 (Paris) **5**/**6**: 138, 1815.
≡ *Asteroma reticulata* (DC.) Chevall., Fl. gén. env. Paris (Paris) **1**: 447, 1826.
≡ ***Guignardia reticulata*** (DC.) Aa, Stud. Mycol. **5**: 23, 1973.
Notes: The combination *C. reticulata* was validly published in Fungi Eur. Exs. 159 (fig. 22).

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Cryptosporium sorbi Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 160, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860], nom. nud.

≡ *Septoria sorbi* Lasch, in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 5: no. 459, 1843 [and Bot. Zeitung **2**: 172, 1844], nom. nud.

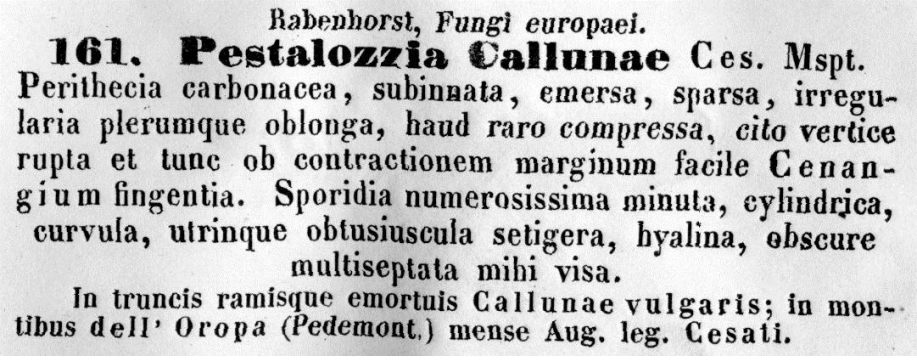
≡ *Septoria sorbi* Fuckel [as (Ces.) Fuckel], Jahrb. Nassauischen Vereins Naturk. **23**–**24**: 390, [1869–1870] 1870, nom. nud.

≡ *Phoma sorbi* Sacc. [as "(Lasch) Sacc."], Syll. Fung. **3**: 529, 1884.

≡ ***Septoria sorbi*** (Sacc.) Sacc. [as "Sacc."], Bull. Soc. Mycol. Fr. **5**(4): 121, 1890.

Pestalotia callunae Ces. (as "*Pestalozzia*"), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 161, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 161 (fig. 23).


Rabenhorst, Fungi europaei.

161. Pestalozzia Callunae Ces. Mspt.

Perithecia carbonacea, subinnata, emersa, sparsa, irregularia plerumque oblonga, haud raro compressa, cito vertice rupta et tunc ob contractionem marginum facile Cenangium fingentia. Sporidia numerosissima minuta, cylindrica, curvula, utrinque obtusiuscula setigera, hyalina, obscure multiseptata mihi visa.

In truncis ramisque emortuis Callunae vulgaris; in montibus dell' Oropa (Pedemont.) mense Aug. leg. Cesati.

Fig. 23

Stilbum xanthopus Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 170, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ ***Stilbella xanthopus*** (Rabenh.) Lindau, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) **1**.9: 300, 1908.

Notes: This species was validly published with a description in Fungi Eur. Exs. 170 (fig. 24).

Rabenhorst, Fungi europaei.

170. Stilbum xanthopus Rabenh. Mspt.

Gregarium, e subiculo viridi-griseo mucoriformi dein evanescente enatum; stipite e basi plus minus dilatata cylindraceo, capitulum longe superante tenaci flavido-subochraceo rufescente; capitulo (vegetando et exsiccando) pulchre smaragdino, demum in stipitis colorem mutato et tunc Stilbum vulgarem quasi fingit. Sporae minutae globosae hyalinae.

Dresdae, in cella vinaria dolia vino dulci repleta obducens; leg. C. A. Hantzsch.

Fig. 24

Hormodendrum farinosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 173, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Ramularia farinosa* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 206, 1886.

= ***Ramularia calcea*** Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 17: no. 1681, 1852.

Notes: This species was validly published with a description in Fungi Eur. Exs. 173, supplemented by a drawing (fig. 25 A, B). *Hormodendrum farinosum* is a synomy of *Ramularia calcea* (see Braun 1998: 112).

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Rabenhorst, Fungi europaei.
173. Hormodendrum Bonord. Allg. Mycol. p. 76.
H. farinosum nov. sp.
Sporis ovatis simplicibus haud septatis, ramis primariis rudimentariis, secundariis articulatis, articulis oblongis bipunctatis.
Acervuli farinoso-floccosi irregulares in foliis vivis Symphiti off.; in Guestphalia leg. Bonorden.

Fig. 25 A (text)

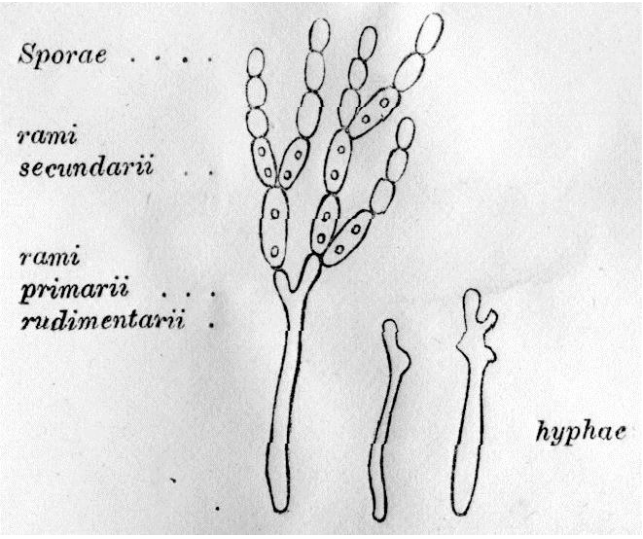

Fig. 25 B (illustration)

Torula bulbigera Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 175, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].
Notes: This species was validly published with a description in Fungi Eur. Exs. 175 (fig. 26).

Rabenhorst, Fungi europaei.
175. Torula bulbigera Bonord.
(Acrosporium bulbigerum Nees. Oidium Fries.)
Sporis ovatis s. oblongo-ovatis, 4—6 concatenatis, hyalinis albis, hyphis triseptatis, basi bulbosis, suffultis; mycelio ramoso, septato et repente.
Horford in foliis Graminum leg. Bonorden.
Die Hyphen erheben sich im rechten Winkel von dem kriechenden Mycelium, haben an der Basis eine erweiterte Stelle (bulbillus), dann folgt eine, oft ganz cylindrische Strecke mit 2—3 Septen und auf dieser stehen 4—6 Sporen kettenförmig verbunden, welche oval, reif ganz durchsichtig, unreif mit kleinen Zellen oder Bläschen gefüllt sind. Die reifen Sporen enthalten einen festen Kern, welcher durch das Verschmelzen dieser kleinen Zellen entsteht.

Fig. 26

Erannium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 182, 1860].
Type species (designated here, MycoBank, MBT385607): *Uredo tussilaginis* Pers. (≡ *Coleosporium tussilaginis* (Pers.) Tul.).
Notes: The genus name *Erannium* was at first validly published in Fungi Eur. Exs. 176 (fig. 27). Bonorden (1860: 182) repeated the description with reference to the earlier publication in the exsiccata. Bonorden's (l.c.) paper was at first published in the journal "Abhandlungen der

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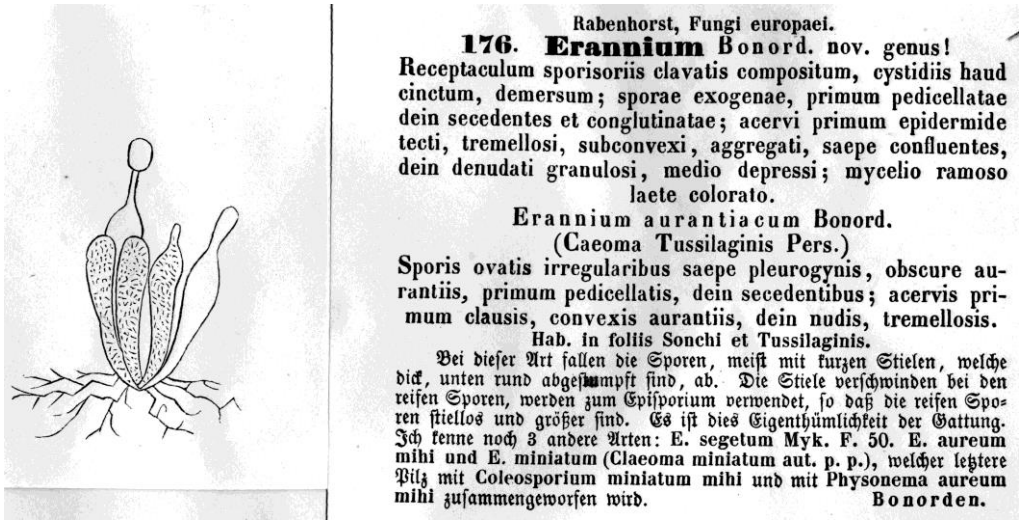
Naturforschenden Gesellschaft zu Halle" and later as separately distributed reprint. Bonorden (l.c.) already cited the publication in Rabenhorst's exsiccatum, suggesting that the description in Fungi Eur. Exs. 176 appeared at first. The following species were assigned to *Erannium*:

Erannium aurantiacum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860], nom. superfl., Art. 52.1 [*Uredo* (as "*Caeoma*") *tussilaginis* Pers. (≡ *Coleosporium tussilaginis* (Pers.) Tul.) was cited as synonym; Bonorden (l.c.) cited "*Caeoma tussilaginis* Pers." which represents an indirect reference to *Uredo tussilaginis* and constitutes the new combination: *Caeoma tussilaginis* (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860].



Rabenhorst, Fungi europaei.

176. Erannium Bonord. nov. genus!

Receptaculum sporisoriis clavatis compositum, cystidiis haud cinctum, demersum; sporae exogenae, primum pedicellatae dein secedentes et conglutinatae; acervi primum epidermide tecti, tremellosi, subconvexi, aggregati, saepe confluentes, dein denudati granulosi, medio depressi; mycelio ramoso laete colorato.

Erannium aurantiacum Bonord.
(Caeoma Tussilaginis Pers.)

Sporis ovatis irregularibus saepe pleurogynis, obscure aurantiis, primum pedicellatis, dein secedentibus; acervis primum clausis, convexis aurantiis, dein nudis, tremellosis.

Hab. in foliis Sonchi et Tussilaginis.

Bei dieser Art fallen die Sporen, meist mit kurzen Stielen, welche dick, unten rund abgestumpft sind, ab. Die Stiele verschwinden bei den reifen Sporen, werden zum Episporium verwendet, so daß die reifen Sporen stiellos und größer sind. Es ist dies Eigenthümlichkeit der Gattung. Ich kenne noch 3 andere Arten: E. segetum Myk. F. 50. E. aureum mihi und E. miniatum (Claeoma miniatum aut. p. p.), welcher letztere Pilz mit Coleosporium miniatum mihi und mit Physonema aureum mihi zusammengeworfen wird. Bonorden.

Fig. 27

Erannium aureum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.

≡ *Erannium aureum* Bonord., Abh. Naturf. Ges. Halle **5**: 183, 1860, nom. superfl., Art. 52.1 [*Uredo tremellosa* F. Strauss and *Caeoma rhinanthacearum* (DC.) Schltdl. were cited as synonyms].

Erannium miniatum (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Uredo miniata* Pers., Syn. meth. fung. (Göttingen) **1**: 216, 1801.

≡ *Physoderma miniatum* (Pers.) Bonord., Handb. Mykol.: 53, 1851.

Erannium segetum (Bonord.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Physoderma segetum* Bonord., Handb. Mykol.: 53, 1851.

The description and illustration of *Erannium* in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 refers to *E. aurantiacum*, a superfluous name based on *Uredo tussilaginis* (≡ *Coleosporium tussilaginis*), which is proposed to serve as type of the genus.

Puccinia maydis Poetsch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.

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Cystopus sphaericus (Wallr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 186, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].
≡ *Erysibe sphaerica* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 193, 1833.
Notes: The combination *C. sphaericus* was validly published in Fungi Eur. Exs. 186 (fig. 28).

Rabenhorst, Fungi europaei.
186. Cystopus sphaericus Bonord.
Syn. Erysibe sphaerica Wallr.
Sporis globosis primum concatenatis haud raro stylo brevissimo interceptis, dein liberis; sporisoriis curtis subcylindricis; acervis irregularibus albis nitidis.
In Thlaspi bursa p. in Guestphalia leg. Bonorden.

Fig. 28

Coleosporium aureum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 187, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
Notes: This is a validly published species with a description in Fungi Eur. Exs. 287 (fig. 29).

Rabenhorst, Fungi europaei.
187. Coleosporium aureum Bonord.
Syn. Caeoma Compransor Schlecht.?
Sporis majoribus globosis aureis; acervis parvis rotundis hypogenis et epidermide tectis aurantiacis, dein denudatis aureis; maculis oppositis viride-flavis.
Hab. in foliis Sonchi et Tussilaginis in Guestphalia; leg. Bonorden.

Fig. 29

Aecidium candidum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 188, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1), non Pers., 1792.
Notes: This is a homonym. Furthermore, Bonorden (in Rabenhorst, l.c.) cited *Aecidium phaseolorum* Wallr. as synonym.

Epitea fenestrata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 189, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
= ***Melampsora ribesii-epitea*** Kleb., Krypt.-Fl. Brandenburg (Leipzig) **5**: 798, 1914.
Notes: This is a validly published species with a description in Fungi Eur. Exs. 189 (fig. 30). Type material of this species has been examined, agrees well with *Melampsora ribesii-epitea*, and represents an older name for this species.

Rabenhorst, Fungi europaei.
189. Epitea Leveille.
Char. gen. Sporae simplices primum pedicellatae mox liberae, ex hypostromate celluloso-carnoso provenientes, cystidiis pedicellatis cinctae, primum epidermide tectae, dein denudatae.
Epitea fenestrata Bonord. (nov. sp.)
(Uredo gyrosa Reb.?)
Sporis globosis s. ovato-globosis (aqua superfusis sub microscopio punctato-umbrinis, siccis luteo-umbrinis) breviter pedicellatis; cystidiis hyalinis, magnis, longe pedicellatis, ampullaeformibus, cavis, quasi fenestratis; hypostromate (mycelio) emergente; acervis rotundis saepe confluentibus et gyrosis.
Hab. in foliis Salicis capreae in Guestphalia; leg. Bonorden.

Fig. 30

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Epitea oblonga Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
= ***Melampsora laricis-populina*** Kleb., Z. Pflanzenkrankh. **12**: 43, 1902.
Notes: This is a validly published species with a description in Fungi Eur. Exs. 190 (fig. 31). Type material of this species has been examined, agrees well with *Melampsora laricis-populina*, and represents an older name for this species.

Rabenhorst, Fungi europaei.
190. Epitea oblonga Bonord. nov. sp.
Sporis oblongis s. oblongo-sphaeroideis, luteo-viridibus, breviter pedicellatis; pedicellis albis; cystidiis hyalinis solidis aut intus moleculis viridibus nonnullis praeditis, ampullaeformibus, mediocribus; acervis rotundis planis pallide flavis, epidermide cinctis, gregariis.
In fol. Populi in Guestphalia leg. Bonorden.

Fig. 31

Uredo obconica Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 191, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
Notes: This is a validly published species with a description in Fungi Eur. Exs. 191 (fig. 32).

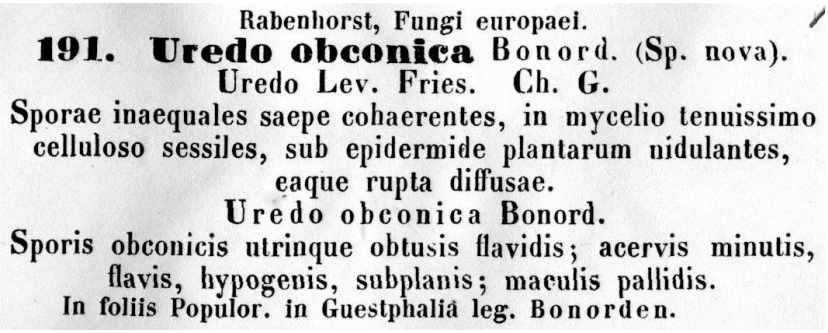
Rabenhorst, Fungi europaei.
191. Uredo obconica Bonord. (Sp. nova).
Uredo Lev. Fries. Ch. G.
Sporae inaequales saepe cohaerentes, in mycelio tenuissimo celluloso sessiles, sub epidermide plantarum nidulantes, eaque rupta diffusae.
Uredo obconica Bonord.
Sporis obconicis utrinque obtusis flavidis; acervis minutis, flavis, hypogenis, subplanis; maculis pallidis.
In foliis Populor. in Guestphalia leg. Bonorden.

Fig. 32

Uredo fusca Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1).
Notes: Several *Caeoma* species were cited as synonyms.

Caeoma rufum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 194, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
Notes: This is a valid species published with a description in Fungi Eur. Exs. 194 (fig. 33).

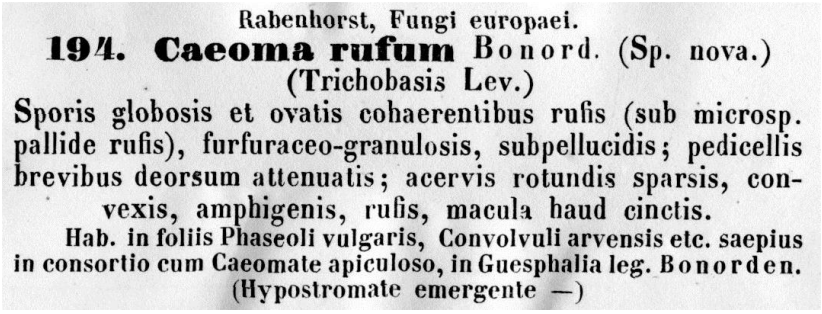
Rabenhorst, Fungi europaei.
194. Caeoma rufum Bonord. (Sp. nova.)
(Trichobasis Lev.)
Sporis globosis et ovatis cohaerentibus rufis (sub microsp. pallide rufis), furfuraceo-granulosis, subpellucidis; pedicellis brevibus deorsum attenuatis; acervis rotundis sparsis, convexis, amphigenis, rufis, macula haud cinctis.
Hab. in foliis Phaseoli vulgaris, Convolvuli arvensis etc. saepius in consortio cum Caeomate apiculoso, in Guesphalia leg. Bonorden.
(Hypostromate emergente —)

Fig. 33

Caeoma fuscum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 196, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].
Notes: This is a valid species published with a description in Fungi Eur. Exs. 196 (fig. 34).

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Rabenhorst, Fungi europaei.

196. Caeoma fuscum Bonord. (Sp. sejunct.)
(Trichobasis Lev.)

Sporis plerumque ovatis s. ovato-globosis, primum luteo-fuscis, dein fuscis, subfarinaceis; pedicellis cylindricis brevibus, tenuibus; acervis rotundis, sparsis, fuscis, epidermide cinctis.

Hab. in foliis Astragali etc. prope Bielefeld; leg. Bonordon.

Fig. 34

Caeoma rubiginosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 197, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 197 (fig. 35).

Rabenhorst, Fungi europaei.

197. Caeoma rubiginosum Bonord. (Sp. nov.)
(Trichobasis Lev.)

Sporis subglobosis s. ovatis, laevibus, rubiginosis, magnis, punctatis; pedicellis crassis, deorsum attenuatis; acervis rotundis, amphigenis; hypostromate emergente.

Hab. in foliis Tabae vulgaris, Rumicis, Lithospermi etc. in consortio cum Puccinia clavuligera Wallr. in Guestphalia.

Bei dieser Species wie bei C. rufum kann man am leichtesten den Bau des hypostroma untersuchen und erkennen. Bonorden.

Fig. 35

Caeoma flavum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 198, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860, Abh. Naturforsch. Ges. Halle **5**: 228, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 198 (fig. 36).

Rabenhorst, Fungi europaei.

198. Caeoma flavum Bonord. (Sp. nov.)
(Trichobasis Lev.)

Sporis globosis flavis, inaequalibus; episporio crasso hyalino; pedicellis longis deorsum incrassatis; acervis longis s. ellipticis, flavis, pulvinatis, subaurantiis.

Hab. in foliis Graminum in Guestphalia, ubertim.

Gehört zu den wenigen Arten des Caeoma, welche mit Wasser benetzt, meist kugliche Sporen haben. Trocken sind die Sporen mehr oval, etwas rauh, gelb durchscheinend, frisch und reif erscheinen sie punctirt und glatt. Von Caeoma Rubigo unterscheidet sich diese Art wesentlich dadurch, daß Rubigo reiche stachliche und eckig runde Sporen hat, welche nur in sehr kleinen rundlichen oder viereckigen Häufchen vorkommen, dicht gelagert sind und immer rostfarben erscheinen. Benetzt mit Wasser werden die Sporen des C. Rubigo dem C. flavum ähnlicher, trocken sind sie am Rande dunkel undurchsichtig, in der Mitte gelblich. Bonorden.

Fig. 36

Caeoma phaeum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 199, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 199 (fig. 37).

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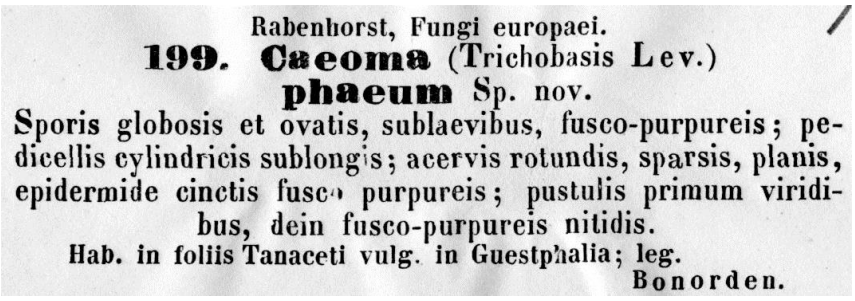
Rabenhorst, Fungi europaei.
199. Caeoma (Trichobasis Lev.)
phaeum Sp. nov.
Sporis globosis et ovatis, sublaevibus, fusco-purpureis; pedicellis cylindricis sublongis; acervis rotundis, sparsis, planis, epidermide cinctis fusco purpureis; pustulis primum viridibus, dein fusco-purpureis nitidis.
Hab. in foliis Tanaceti vulg. in Guestphalia; leg. Bonorden.

Fig. 37

Cent. 3

Cantharellus coemansii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 209, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 140, 1861].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 209 (fig. 38).

Rabenhorst, Fungi europaei.
209. Cantharellus Coemansii Rabenh.
nov. sp.
Subcarnoso-mollis, campanulatus, extus villoso-tomentosus albidus, margine inflexo; lamellis plicaeformibus subfurcatis cinnamomeis.
Canth. Crucibulo Fr. Epicr. p. 369. proximus valdeque similis.
Ad Gandavum leg. Eugène Coemans.

Fig. 38

Peziza rubi var. *herbicola* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 218, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].
Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 218 (fig. 39).

Rabenhorst, Fungi europaei.
218. Peziza Rubi Lsch in Rabenh. Herb. myc. Ed. II. N. 421.
var. herbicola Rabenh.
In herbarum caulibus emortuis pr. Rothenhaus (Bohemiae) leg. Sachs.
Obs. Pezizae Rubi et herbarum proxima, sed diff. a priori colore laete et fulvo-sulphureo nec non jam loco natali, a poster. stipite breviore verrucaeformi. L. R.

Fig. 39

Peziza retincola Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 225, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].
= ***Trichobelonium kneiffii*** (Wallr.) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.2**(1–2): 103 [1908] 1893.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 225 (fig. 40).

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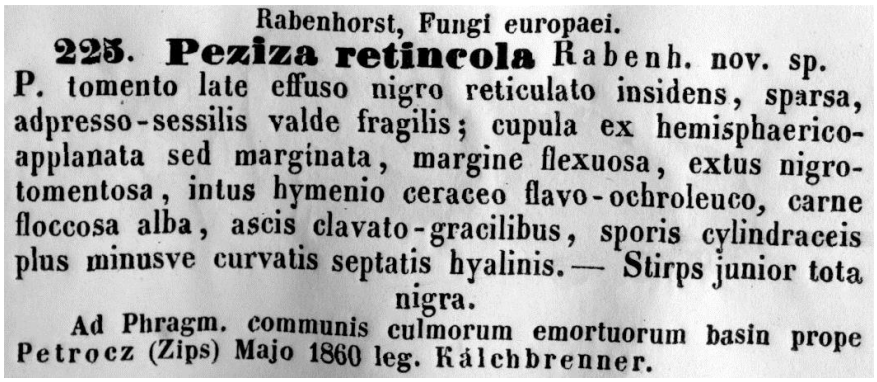
Rabenhorst, Fungi europaei.
225. **Peziza retincola** Rabenh. nov. sp.
P. tomento late effuso nigro reticulato insidens, sparsa, adpresso-sessilis valde fragilis; cupula ex hemisphaerico-applanata sed marginata, margine flexuosa, extus nigro-tomentosa, intus hymenio ceraceo flavo-ochroleuco, carne floccosa alba, ascis clavato-gracilibus, sporis cylindraceis plus minusve curvatis septatis hyalinis. — Stirps junior tota nigra.
Ad Phragm. communis culmorum emortuorum basin prope Petrocz (Zips) Majo 1860 leg. Kalchbrenner.

Fig. 40

Phacidium minutissimum Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 228, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].
= ***Naevala perexigua*** (Roberge ex Desm.) K. Holm & L. Holm, Bot. Notiser **131**(1): 100, 1978.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 228 (fig. 41).

Rabenhorst, Fungi europaei.
228. **Phacidium minutissimum** Awd. n. sp.
Syn. Sphaeria punctiformis Auct. p. p.
Peritheciis gregariis minutissimis, innatis, rotundato-angulatis, fuscis, mox in lacinias 3—4 a centro dehiscentibus discumque albidum offerentibus; ascis minutis, clavatis, 8 sporis; sporis ovalibus simplicibus.
In Quercus foliorum putrescentium pagina inferiore prope Ponickau ad Grossenhain (Saxoniae) leg. Auerswald.

Fig. 41

Dermatea cerasi [as "*cerati*] f. *pycnidifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 232, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].
Notes: This is a valid forma published on the label of Fungi Eur. Exs. 232 (fig. 42).

Rabenhorst, Fungi europaei.
232. **Dermatea cerati.** Fr. Sum.
Forma pycnidifera!
Pycnides irregulariter tubulosae vel lageniformes, plures adnatae, eodem Stromate pulvinato insidentes; basidiis tenuibus stylosporio brevioribus: stylosporis linearibus, utrinque acute attenuatis, curvis, 2—3 vel pluriseptatis, long 0 mm, 04—5. cras. 0 mm., 0035.
Ad Gandavum leg. Eugéne Coemans.

Fig. 42

Dermatea cerasi f. *spermogonifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 233, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].
Notes: This is a valid forma published on the label of Fungi Eur. Exs. 233 (fig. 43).

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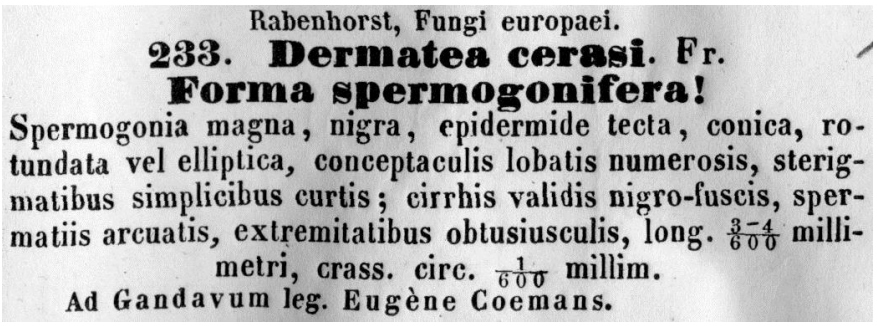
Rabenhorst, Fungi europaei.
233. **Dermatea cerasi**. Fr.
Forma spermogonifera!
Spermogonia magna, nigra, epidermide tecta, conica, rotundata vel elliptica, conceptaculis lobatis numerosis, sterigmatibus simplicibus curtis; cirrhis validis nigro-fuscis, spermatiis arcuatis, extremitatibus obtusiusculis, long. $\frac{3-4}{600}$ millimetri, crass. circ. $\frac{1}{600}$ millim.
Ad Gandavum leg. Eugène Coemans.

Fig. 43

Cordyceps alutacea (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].
≡ *Sphaeria alutacea* Pers., Comm. fung. clav. (Lipsiae): 12, 1797.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).

Cordyceps alutacea var. *albicans* (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].
≡ *Sphaeria alutacea* var. *albicans* Pers., Syn. meth. fung. **1**: 2, 1801.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).

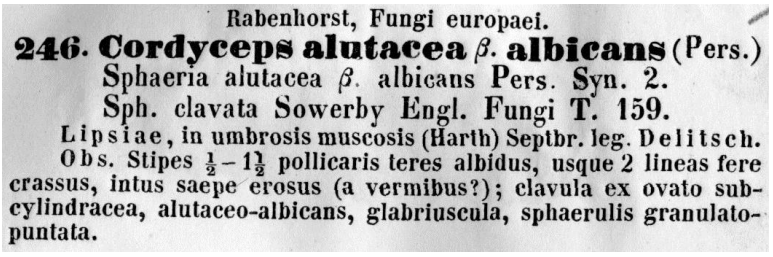
Rabenhorst, Fungi europaei.
246. **Cordyceps alutacea** β. **albicans** (Pers.)
Sphaeria alutacea β. albicans Pers. Syn. 2.
Sph. clavata Sowerby Engl. Fungi T. 159.
Lipsiae, in umbrosis muscosis (Harth) Septbr. leg. Delitsch.
Obs. Stipes $\frac{1}{2}-1\frac{1}{2}$ pollicaris teres albidus, usque 2 lineas fere crassus, intus saepe erosus (a vermibus?); clavula ex ovato subcylindracea, alutaceo-albicans, glabriuscula, sphaerulis granulato-puntata.

Fig. 44

Sphaeria curreyi Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 250, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861], nom. illeg. (Art. 53.1), non A. Bloxam ex Curr., 1859.
≡ *Sphaeria apiculata* Curr., Trans. Linn. Soc. London **22**: 326, 1859, nom. illeg. (Art. 53.1), non Wallr., 1833.
≡ *Valsaria apiculata* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) **1**: 752 1882.
≡ ***Apiorhynchostoma apiculata*** (Sacc.) Petr., Ann. Mycol. **21**(3-4): 185, 1923.
≡ *Apiorhynchostoma curreyi* E. Müll. (as "(Rabenh.) E. Müll."), in Müller & von Arx, Beitr. Kryptfl. Schweiz **11**(2): 706, 1962.

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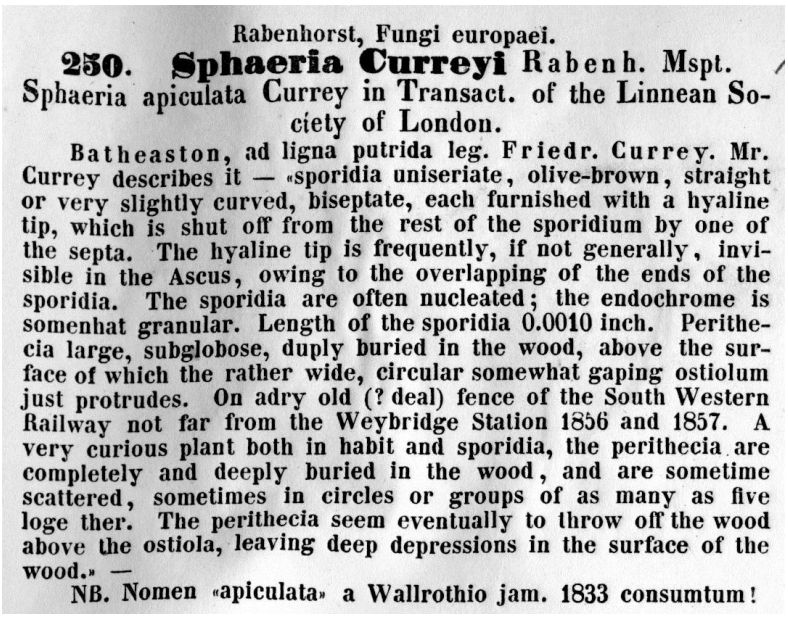
Rabenhorst, Fungi europaei.
250. **Sphaeria Curreyi** Rabenh. Mspt.
Sphaeria apiculata Currey in Transact. of the Linnean Society of London.
Batheaston, ad ligna putrida leg. Friedr. Currey. Mr. Currey describes it — «sporidia uniseriate, olive-brown, straight or very slightly curved, biseptate, each furnished with a hyaline tip, which is shut off from the rest of the sporidium by one of the septa. The hyaline tip is frequently, if not generally, invisible in the Ascus, owing to the overlapping of the ends of the sporidia. The sporidia are often nucleated; the endochrome is somenhat granular. Length of the sporidia 0.0010 inch. Perithecia large, subglobose, duply buried in the wood, above the surface of which the rather wide, circular somewhat gaping ostiolum just protrudes. On adry old (? deal) fence of the South Western Railway not far from the Weybridge Station 1856 and 1857. A very curious plant both in habit and sporidia, the perithecia are completely and deeply buried in the wood, and are sometime scattered, sometimes in circles or groups of as many as five loge ther. The perithecia seem eventually to throw off the wood above the ostiola, leaving deep depressions in the surface of the wood.» —
NB. Nomen «apiculata» a Wallrothio jam. 1833 consumtum!

Fig. 45

Microstoma Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861], nom. illeg., Art. 53.1, non Bernstein, 1852.
= ***Cytospora*** Ehrenb., Sylv. mycol. berol. (Berlin): 28, 1818.
Notes: The genus name *Microstoma* was published in Fungi. Eur. Exs. 253 (fig. 46), with *Sphaeria microstoma* Pers. as type species. This name is illegitimate and is a heterotypic synonym of *Cytospora*.

Microstoma vulgare Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].
≡ *Sphaeria microstoma* Pers., Syn. meth. fung. (Göttingen) **1**: 40, 1801.
≡ *Valsa microstoma* (Pers.) Fr., Summa veg. Scand., Sectio Post. (Stockholm): 411, 1849.
= ***Cytospora populina*** (Pers.) Rabenh., Deutschl. Krypt.-Fl. (Leipzig) **1**: 148, 1844.

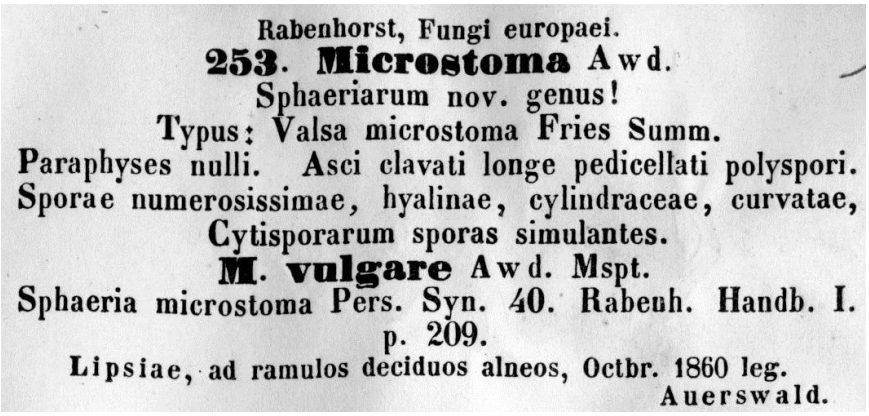
Rabenhorst, Fungi europaei.
253. **Microstoma** Awd.
Sphaeriarum nov. genus!
Typus: Valsa microstoma Fries Summ.
Paraphyses nulli. Asci clavati longe pedicellati polyspori. Sporae numerosissimae, hyalinae, cylindraceae, curvatae, Cytisporarum sporas simulantes.
M. vulgare Awd. Mspt.
Sphaeria microstoma Pers. Syn. 40. Rabenh. Handb. I. p. 209.
Lipsiae, ad ramulos deciduos alneos, Octbr. 1860 leg. Auerswald.

Fig. 46

Ceratostoma rostratum (Tode) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 256, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].
≡ *Sphaeria rostrata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 14, 1791 [: Fr., Syst. mycol. **2**(2): 473, 1823].
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 256 (fig. 47).

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Rabenhorst, Fungi europaei.
256. **Ceratostoma rostratum** (Tode) Rabenh. Mscr.
Sphaeria rostrata Fr. Syst. II. 473. Rabenh. Handb. I. 186.
In ramulis siccis ad Gandavum leg. Eugêne Coemans.
Obs. Gregarie; ostiolis 2—5 aggregatis, rarius solitariis, elongato-cylindraceis, subcornutis, rectiusculis vel curvatis, apice truncatis sporis generis profluentibus numerosissimis in glebulam subglobosam sordide flavicantem conglutinatis coronatis. L. R.

Fig. 47

Massaria amblyospora (Berk. & Broome) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 257, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].
≡ *Sphaeria amblyospora* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 2, **9**: 322, 1852.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 257 (fig. 48).

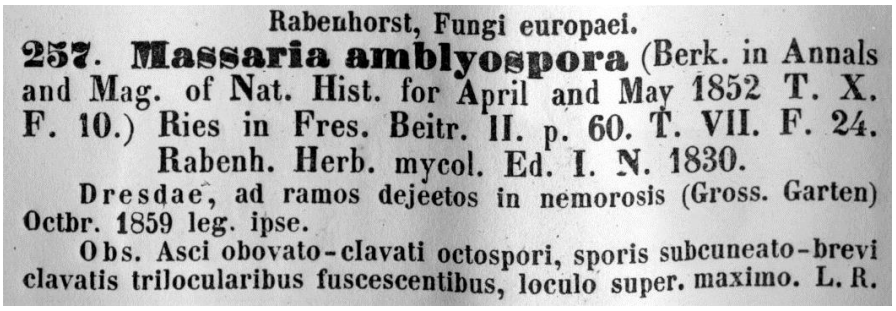
Rabenhorst, Fungi europaei.
257. **Massaria amblyospora** (Berk. in Annals and Mag. of Nat. Hist. for April and May 1852 T. X. F. 10.) Ries in Fres. Beitr. II. p. 60. T. VII. F. 24. Rabenh. Herb. mycol. Ed. I. N. 1830.
Dresdae, ad ramos dejectos in nemorosis (Gross. Garten) Octbr. 1859 leg. ipse.
Obs. Asci obovato-clavati octospori, sporis subcuneato-brevi clavatis trilocularibus fuscescentibus, loculo super. maximo. L. R.

Fig. 48

Sphaeria herbarum f. *euphrasiae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 258, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861].
Notes: This is a valid forma published on the label of Fungi Eur. Exs. 258 (fig. 49).

Rabenhorst, Fungi europaei.
258. **Sphaeria herbarum** Rabenh. Conf. Herb. myc. Ed. II. N. 541 et sq.
Forma: Euphrasiae!
Sphaeria herbarum Pers. ex parte!
S. sparsa, minuta, nitida; ostiolo brevi, ascis gracilibus octosporis, sporis oblongis v. ellipsoideis, monoblastis, hyalinis 9—11 m.m. longis.
Ad Euphrasiae caules siccos pr. Driesen leg. Lasch.

Fig. 49

Bilimbiospora Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861], nom. rej. (Art. 14.6/7).
= ***Leptosphaeria*** Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 234, 1863.
Notes: This is a rejected genus name published with a description on the label of Fungi Eur. Exs. 261 (fig. 50).

Bilimbiospora doliolum (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861].
≡ *Sphaeria doliolum* Pers., Icon. Desc. Fung. Min. Cognit. (Leipzig) **2**: 39, 1800.

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≡ ***Leptosphaeria doliolum*** (Pers.) Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 234, 1863.
Notes: This is a combination published on the label of Fungi Eur. Exs. 261 (fig. 50).

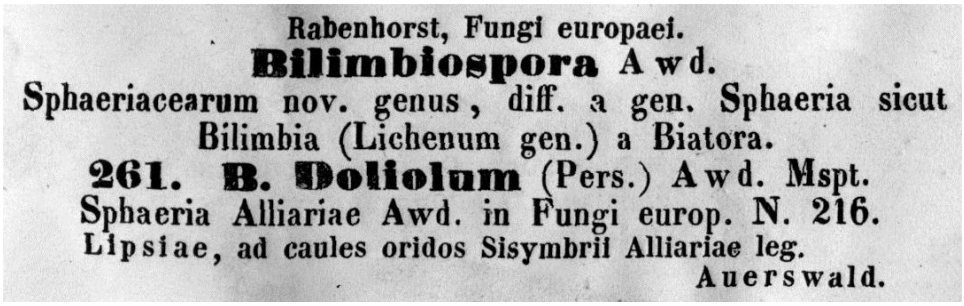
Rabenhorst, Fungi europaei.
Bilimbiospora Awd.
Sphaeriacearum nov. genus, diff. a gen. Sphaeria sicut Bilimbia (Lichenum gen.) a Biatora.
261. B. Doliolum (Pers.) Awd. Mspt.
Sphaeria Alliariae Awd. in Fungi europ. N. 216.
Lipsiae, ad caules oridos Sisymbrii Alliariae leg.
Auerswald.

Fig. 50

Macrosporium atrum (Corda) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 273, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 158, 1861].
≡ *Septosporium atrum* Corda, in Sturm, Deutschl. Fl., 3 Abt. (Pilze Deutschl.) **3**(12): 33, 1831.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 273 (fig. 51).

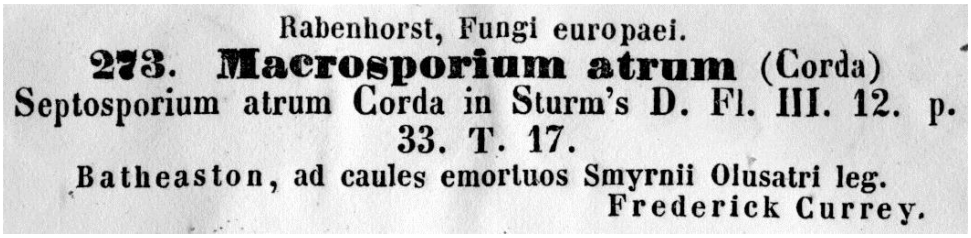
Rabenhorst, Fungi europaei.
273. Macrosporium atrum (Corda)
Septosporium atrum Corda in Sturm's D. Fl. III. 12. p. 33. T. 17.
Batheaston, ad caules emortuos Smyrnii Olusatri leg.
Frederick Currey.

Fig. 51

Torula rubella Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 281, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 158, 1861].
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 273 (fig. 52).

Rabenhorst, Fungi europaei.
281. Torula rubella Bonord. Sp. nova Mspt.
Caespitulis minutis lanuginosis, fusco-rubellis pallidis; spor. ovato-oblongis, utrinque truncatis, 3—4 concatenatis, concoloribus; pedicellis septatis, deorsum attenuatis.
Hab. in foliis Graminum in Guestphalia.

Fig. 52

Cryptosporium viride Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 287, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 158, 1861, Abh. Naturforsch. Ges. Halle **8**: 129, 1864].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 287 (fig. 53).

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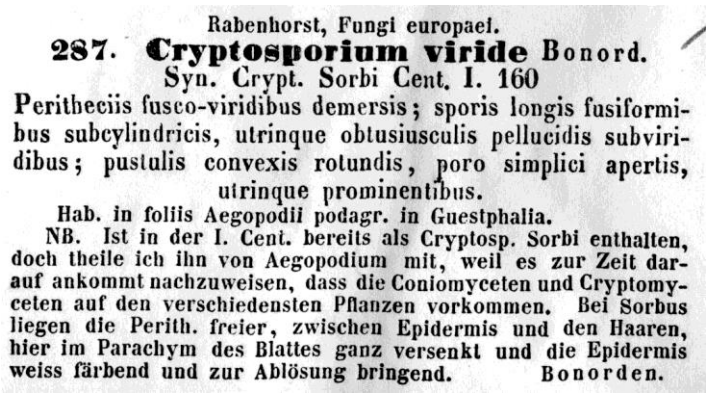
Rabenhorst, Fungi europaei.
287. **Cryptosporium viride** Bonord.
Syn. Crypt. Sorbi Cent. I. 160
Peritheciis fusco-viridibus demersis; sporis longis fusiformibus subcylindricis, utrinque obtusiusculis pellucidis subviridibus; pustulis convexis rotundis, poro simplici apertis, utrinque prominentibus.
Hab. in foliis Aegopodii podagr. in Guestphalia.
NB. Ist in der I. Cent. bereits als Cryptosp. Sorbi enthalten, doch theile ich ihn von Aegopodium mit, weil es zur Zeit darauf ankommt nachzuweisen, dass die Coniomyceten und Cryptomyceten auf den verschiedensten Pflanzen vorkommen. Bei Sorbus liegen die Perith. freier, zwischen Epidermis und den Haaren, hier im Parachym des Blattes ganz versenkt und die Epidermis weiss färbend und zur Ablösung bringend. Bonorden.

Fig. 53

Phacellium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].
Notes: This is a valid genus name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54).

Phacellium inhonestum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].
= *Stysanus alborosellus* Desm., Ann. Sci. Nat., Bot., Sér. 3, **20**: 217, 1853.
≡ ***Phacellium alborosellum*** (Desm.) U. Braun, Nova Hedwigia **50**(3-4): 509, 1990.
Notes: This is a valid species name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54). Full synonymy, see Braun (1998: 323).

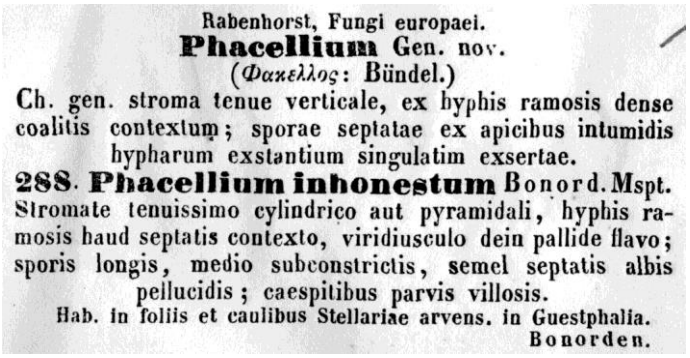
Rabenhorst, Fungi europaei.
Phacellium Gen. nov.
(Φακελλος: Bündel.)
Ch. gen. stroma tenue verticale, ex hyphis ramosis dense coalitis contextum; sporae septatae ex apicibus intumidis hypharum exstantium singulatim exsertae.
288. **Phacellium inhonestum** Bonord. Mspt.
Stromate tenuissimo cylindrico aut pyramidali, hyphis ramosis haud septatis contexto, viridiusculo dein pallide flavo; sporis longis, medio subconstrictis, semel septatis albis pellucidis; caespitibus parvis villosis.
Hab. in foliis et caulibus Stellariae arvens. in Guestphalia.
Bonorden.

Fig. 54

Peronospora obovata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 289, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 289 (fig. 55).

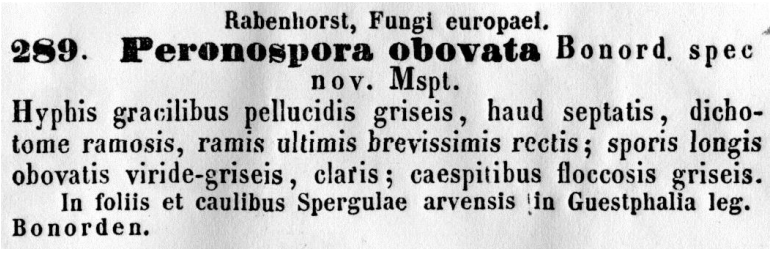
Rabenhorst, Fungi europaei.
289. **Peronospora obovata** Bonord. spec nov. Mspt.
Hyphis gracilibus pellucidis griseis, haud septatis, dichotome ramosis, ramis ultimis brevissimis rectis; sporis longis obovatis viride-griseis, claris; caespitibus floccosis griseis.
In foliis et caulibus Spergulae arvensis in Guestphalia leg. Bonorden.

Fig. 55

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Peronospora effusa var. *hyoscyami* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 291, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].
= ***Peronospora hyoscyami*** de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 123, 1863.
Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 291 (fig. 56).

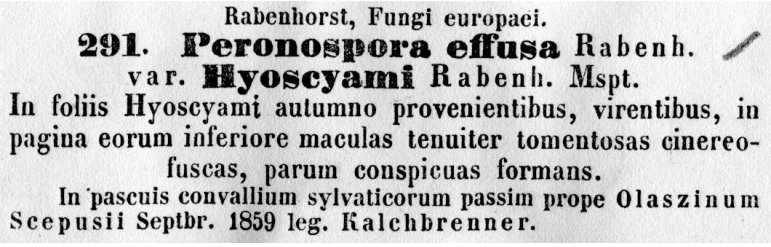
Rabenhorst, Fungi europaei.
291. Peronospora effusa Rabenh.
var. **Hyoscyami** Rabenh. Mspt.
In foliis Hyoscyami autumno provenientibus, virentibus, in pagina eorum inferiore maculas tenuiter tomentosas cinereo-fuscas, parum conspicuas formans.
In pascuis convallium sylvaticorum passim prope Olaszinum Scepusii Septbr. 1859 leg. Kalchbrenner.

Fig. 56

Epitea obovata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 294, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 294 (fig. 57).

Rabenhorst, Fungi europaei.
294. Epitea obovata Bonord. Mspt.
Sporis mixtis plerumque obovatis s. cuneiformibus (saepe deorsum in petiolum quasi prolongatis) aureis, nonnullis subglobosis; cystidiis clavatis curtis, introrsum flexis; acervis minimis aggregatis aureis.
In foliis Rosarum in Guestphalia leg. Bonorden.

Fig. 57

Caeoma rubrum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 299, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 299 (fig. 58).

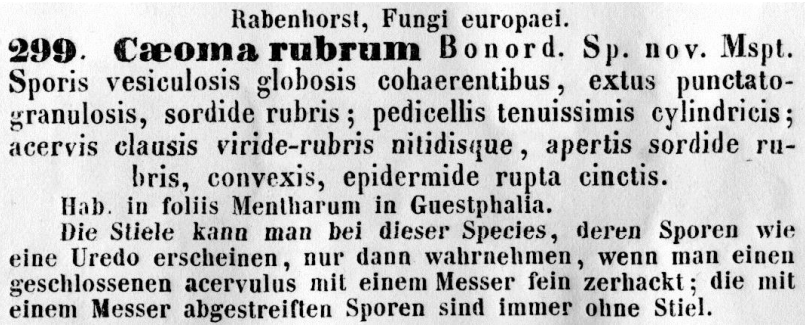
Rabenhorst, Fungi europaei.
299. Cæoma rubrum Bonord. Sp. nov. Mspt.
Sporis vesiculosis globosis cohaerentibus, extus punctato-granulosis, sordide rubris; pedicellis tenuissimis cylindricis; acervis clausis viride-rubris nitidisque, apertis sordide rubris, convexis, epidermide rupta cinctis.
Hab. in foliis Mentharum in Guestphalia.
Die Stiele kann man bei dieser Species, deren Sporen wie eine Uredo erscheinen, nur dann wahrnehmen, wenn man einen geschlossenen acervulus mit einem Messer fein zerhackt; die mit einem Messer abgestreiften Sporen sind immer ohne Stiel.

Fig. 58

Crocysporium fallax Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 300, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].
≡ *Ovularia fallax* (Bonord.) Sacc., Syll. fung. **4**: 141, 1886.
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 300 (fig. 59). It represents an asexual morph of a powdery mildew (Erysiphales), probably *Erysiphe baeumleri* (Magnus) U. Braun & S. Takam. (see Braun 1998: 287).

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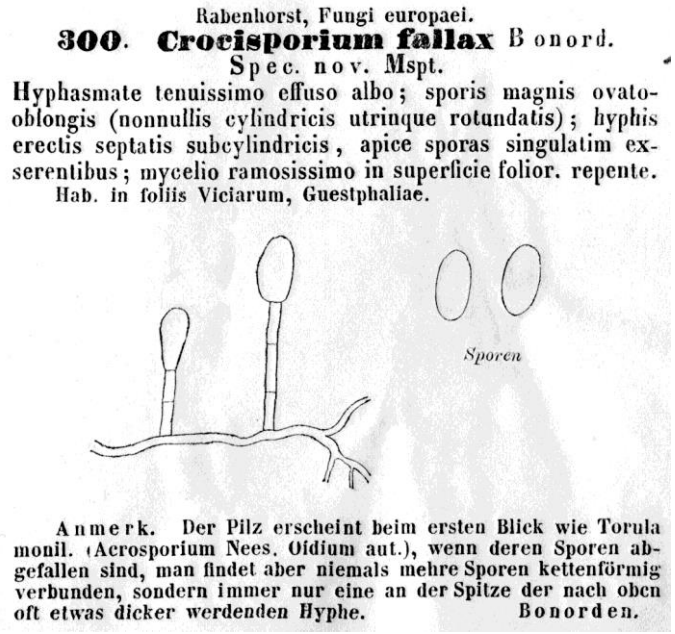
Rabenhorst, Fungi europaei.
300. Crocisporium fallax Bonord.
Spec. nov. Mspt.
Hyphasmate tenuissimo effuso albo; sporis magnis ovato-oblongis (nonnullis cylindricis utrinque rotundatis); hyphis erectis septatis subcylindricis, apice sporas singulatim exserentibus; mycelio ramosissimo in superficie folior. repente.
Hab. in foliis Viciarum, Guestphaliae.
Sporen
Anmerk. Der Pilz erscheint beim ersten Blick wie Torula monil. (Acrosporium Nees. Oidium aut.), wenn deren Sporen abgefallen sind, man findet aber niemals mehre Sporen kettenförmig verbunden, sondern immer nur eine an der Spitze der nach oben oft etwas dicker werdenden Hyphe. Bonorden.

Fig. 59

Cent. 4

Agaricus typhae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 306, 1861 [Bot. Zeitung **19**: 294, 1861].
≡ ***Psathyrella typhae*** (Kalchbr.) A. Pearson & Dennis, Trans. Brit. Mycol. Soc. **31**(3-4): 185, [1947] 1948.
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 306 (fig. 60).

Rabenhorst, Fungi europaei.
306. Agaricus Typhae Kalchbr. herb.
Pileo membranaceo pulvinato, subumbonato 2 — 5‴ lato, striato pallide ochraceo, centro fuscescente, demum dilute umbrino; stipite ½ — 1″ alto vix 1‴ crasso, fragili, tubuloso, albicante, nudo basi dilatata mycelio arachnoideo insidente, lamellis subliberis, albicantibus, demum fuscis, velo fugacissimo, sporis fuscis.
In foliis putrescentibus Typhae latifoliae, imo et in vaginis scoporum ejusdem, laetevegetantium, per paludes ad Hernadum fluvium (Scepusii) prope Olaszinum. Julio 1860 leg.
Kalchbrenner.

Fig. 60

Cucurbitaria rhamni (Nees) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 339, 1861 [Bot. Zeitung **19**: 295, 1861].
≡ *Sphaeria rhamni* Nees, Syst. Pilze (Würzburg): 299, [1816-17] 1816.
≡ ***Neocucurbitaria rhamni*** (Nees) Jaklitsch & Voglmayr, in Jaklitsch et al., Stud. Mycol. **90**: 99, 2017.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 339 (fig. 61).

Rabenhorst, Fungi europaei.
339. Cucurbitaria Rhamni (Nees) Rabenh.
Mspt.
Sphaeria Rhamni Nees ab Es. Syst. 299. F. 326. Fr. Syst. II. 417. Rabenh. Handb. I. p. 200.
Ad truncos Rhamni prope Gachet in pago Vaud ad Genevam leg. Duby.
Obs. Cucurbitaria vera: sporis ovato-cylindraceis transverse et longitudinaliter multi-septatis.

Fig. 61

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Cucurbitaria elongata var. *simplex* (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 340, 1861 [Bot. Zeitung **19**: 295, 1861].
≡ *Sphaeria elongata* var. (γ) *simplex* Fr., Syst. mycol. **2**(2): 423, 1823.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 340 (fig. 62).

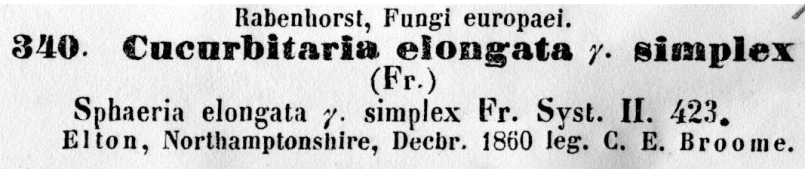
Rabenhorst, Fungi europaei.
340. Cucurbitaria elongata γ. simplex (Fr.)
Sphaeria elongata γ. simplex Fr. Syst. II. 423.
Elton, Northamptonshire, Decbr. 1860 leg. C. E. Broome.

Fig. 62

Phoma complanata (Tode) Desm. (as "*complanatum*"), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].
≡ *Sphaeria complanata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 21, 1791.
≡ ***Calophoma complanata*** (Tode) Qian Chen & L. Cai, Stud. Mycol. **82**: 194, 2015.
Notes: This is a valid combination (with indirect reference to *Sphaeria complanata*, Art. 41.3) published on the label of Fungi Eur. Exs. 343 (fig. 63).

Phoma complanata var. *acuta* Auersw. (as "*acatum*"), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].
Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 343 (fig. 63).

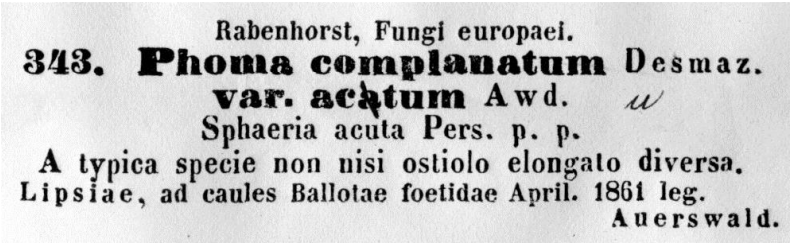
Rabenhorst, Fungi europaei.
343. Phoma complanatum Desmaz.
var. acatum Awd.
Sphaeria acuta Pers. p. p.
A typica specie non nisi ostiolo elongato diversa.
Lipsiae, ad caules Ballotae foetidae April. 1861 leg.
Auerswald.

Fig. 63

Vermicularia schoenoprasi Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 346, 1861 [Bot. Zeitung **19**: 295, 1861].
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 346 (fig. 64).

Rabenhorst, Fungi europaei.
346. Vermicularia Schönoprasi Awd.
Ascis clavatis, maturis mox diffluentibus; sporis soleaeformibus, medio constrictis, septatis, hyalinis (quoad formans Abrothallorum sporas referentibus).
Ponickau, pr. Grossenhain (Saxoniae), ad folia arida Allii Schoenoprasi. April 1861 leg, Auerswald.

Fig. 64

Dothidea rimosa var. *depauperata* Desm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 349, 1861 [Bot. Zeitung **19**: 295, 1861].
Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 349 (fig. 65).

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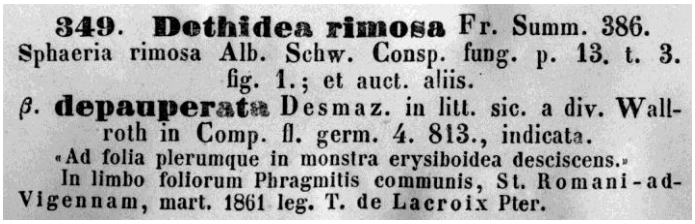
349. **Dothidea rimosa** Fr. Summ. 386.
Sphaeria rimosa Alb. Schw. Consp. fung. p. 13. t. 3. fig. 1.; et auct. aliis.
β. **depauperata** Desmaz. in litt. sic. a div. Wallroth in Comp. fl. germ. 4. 813., indicata.
«Ad folia plerumque in monstra erysiboidea desciscens.»
In limbo foliorum Phragmitis communis, St. Romani-ad-Vigennam, mart. 1861 leg. T. de Lacroix Pter.

Fig. 65

Tympanis crataegi Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 353, 1861 [Bot. Zeitung **19**: 295, 1861].
≡ *Ocellaria aurantiaca* var. *crataegi* (Lasch) Rehm, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) **1**.3(Lief. 30): 135 [1896] 1888.
≡ *Dermatea crataegi* (Lasch) Jaap, Fung. Sel. Exs.: no. 413, 1910.
= *Peziza sepium* Desm., Ann. Sci. Nat., Bot., Sér. 3, **14**: 111, 1850.
≡ *Helotium sepium* (Desm.) Sacc., Syll. fung. (Abellini) **8**: 229, 1889.
≡ *Calycina sepium* (Desm.) Kuntze, Revis. gen. pl. (Leipzig): **3**(2): 449, 1898.
≡ ***Pezicula sepium*** (Desm.) Dennis, Persoonia **3**: 65, 1964.
= *Pezicula crataegi* Auersw. ex Fuckel, Jahrb. Nassauischen Ver. Naturk. **27-28**: 56, [1873-74] 1874, nom. nud.
≡ *Pezicula crataegi* Auersw. ex Hazsl., Mag. Szab. Disc.: 220, 1886.
= *Dermatea crataegicola* Durand, J. Mycol. **10**: 100, 1904.
≡ *Pachydisca crataegicola* (Durand) Boudier, Hist. Class. Disc. Eur. (Paris): 93, 1907.
= *Dermatea olivascens* Rehm, Ann. Mycol. **5**: 80, 1907.
Notes: This is a valid species published on the label of Fungi Eur. Exs. 353 (fig. 66). Dennis (1974) reduced *T. crataegi* to synonymy with *Pezicula sepium*.

Rabenhorst, Fungi europaei.
353. **Tympanis Crataegi** Lasch nov. spec.
erumpens, simplex v. subcespitosa, turbinata pallide-fusca, intus obscure-flava, disco subviridi-nigrescente; asci clavati, sporis oblongo-ovoideis.
In ramis Crataegi pr. Driesen leg. Lasch.

Fig. 66

Raphidospora ononidis Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 359, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.
Notes: In addition, *Sphaeria fruticum* Roberge ex Desm. was cited as synonym, i.e., *R. ononidis* would also be a superfluous new name (Art. 52.1).

Spilosphaeria vincetoxici Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 362, 1861 [Bot. Zeitung **19**: 295, 1861].
= *Depazea vincetoxici* Ficinus & C. Schub., Fl. Geg. Dresd. **2**: 352, 1823.
≡ *Sphaeria vincetoxici* (Ficinus & C. Schub.) Fr., Elench. fung. (Greifswald) **2**: 109, 1828.
≡ ***Septoria vincetoxici*** (Ficinus & C. Schub.) Sacc. (as "Auersw."), Syll. fung. **3**: 542, 1884.
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 362 (fig. 67). Saccardo (l.c.) assigned the combination *Septoria vincetoxici* to Auerswald ("F. Eur." = Fungi Europaei"). However, there is only a single collection in the whole series of this exsiccata under the name *Septoria vincetoxici*, viz., Fungi Eur., Cent. 18, no. 3787, 1891. Saccardo's (l.c.) citation of Auerswald in Fungi Europaei probably referred to *Spilosphaeria vincetoxici*.

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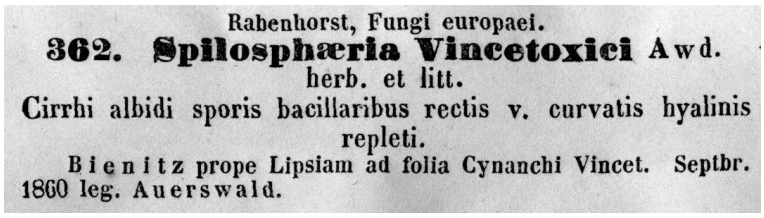
Rabenhorst, Fungi europaei.
362. Spilosphæria Vincetoxici Awd.
herb. et litt.
Cirrhi albidi sporis bacillaribus rectis v. curvatis hyalinis repleti.
Bienitz prope Lipsiam ad folia Cynanchi Vincet. Septbr. 1860 leg. Auerswald.

Fig. 67

Didymium praecox de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 367, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.

≡ *Didymium praecox* de Bary ex Rostaf., Śluzowce monogr. (Paryz): 163, [1874] 1875.

= ***Didymium squamulosum*** (Alb. & Schwein.) Fr., in Fries & Nordholm, Symb. gasteromyc. (Lund) **3**: 19 [1817] 1818.

Notes: This name was not validly published by de Bary in Fungi Eur. Exs. 367 (fig. 68). It was just mentioned that the "new species" is allied to *Didymium candidum*, but different. However, details were not given. The name *Didymium praecox* was later validated by Rostafińsky (1875: 163), who added a Polish description. Saccardo (1888: 380) listed this name with reference to Rostafińsky (1875: 163) and added a Latin description.

Rabenhorst, Fungi europaei.
367. Didymium præcox D. By Mspt.
Didymio candido Schrad. Nov. gen. affine sed diversum videtur.
Pertinet ad Didymii Sect. II., Diderma, De By Mspt.
Inter folia coacervata in horto botanico Friburgensi April 1859 et 1860 leg. De Bary.

Fig. 68

Peronospora macrocarpa f. *elongata* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 374, 1861 [Bot. Zeitung **19**: 295, 1861].

= ***Plasmopara pygmaea*** (Unger) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.1**(9–16): 239, [1889] 1886.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 69) as substrate (host) forma. Constantinescu (1991: 58) classified this name as "invalid" which is not correct.

Rabenhorst, Fungi europaei.
374. Peronospora macrocarpa Corda
Icon.
Forma elongata!
Freiburg im Br., in Anemone nemorosa April 1860 leg. De Bary.

Fig. 69

Peronospora grisea f. *trifolii* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 375, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ ***Peronospora trifoliorum*** de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 117, 1863.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 70) as substrate (host) forma.

Rabenhorst, Fungi europaei.
375. Peronospora grisea Unger in bot. Zeit. 1847. p. 315.
Forma: Trifolii!
Freiburg, in Trifolio medio, Majo 1859 leg. De Bary.

Fig. 70

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Fusidium pteridis Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 389, 1861 [Bot. Zeitung **19**: 296, 1861].

≡ ***Cryptomycella pteridis*** (Kalchbr.) Höhn., Mitt. Bot. Inst. Tech. Hochsch. Wien **2**(3): 48, 1925.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 389 (fig. 71).

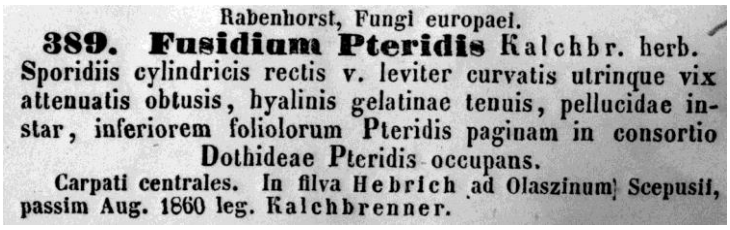
Rabenhorst, Fungi europaei.
389. Fusidium Pteridis Kalchbr. herb.
Sporidiis cylindricis rectis v. leviter curvatis utrinque vix attenuatis obtusis, hyalinis gelatinae tenuis, pellucidae instar, inferiorem foliolorum Pteridis paginam in consortio Dothideae Pteridis occupans.
Carpati centrales. In silva Hebrich ad Olaszinum Scepusii, passim Aug. 1860 leg. Kalchbrenner.

Fig. 71

Puccinia graminis var. *avenae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 392, 1861 [Bot. Zeitung **19**: 296, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 392 (fig. 72).

Rabenhorst, Fungi europaei.
392. Puccinia Graminis Pers.
var. Avenae: stipite breviore et cellula super. obtuso-rotundata!
Ad folia Avenae planiculmis in horto botanico Berolinensi M. Martio 1860 leg. A. Braun.

Fig. 72

Urocystis colchici (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 396, 1861 [Bot. Zeitung **19**: 296, 1861], nom. inval. (Art. 35.1).

≡ *Caeoma colchici* Schltdl., Linnaea **1**: 241, 1826.

≡ ***Urocystis colchici*** (Schltdl.) A.A. Fisch. Waldh., Bull. Soc. Imp. Nat. Moscou **40**: 258, 1867.

Notes: The genus name *Urocystis* was introduced by Rabenhorst in Fungi Eur. Exs. 396 (fig. 73) as illegitimate (superfluous) nom. nov. to replace *Polycystis* Lév., 1846, with reference to *Polycystis* (Kützing) Kützing, 1849. *Urocystis* Rabenh. ex Fuckel is now a conserved name, and *Polycystis* Lév. has been rejected.

Rabenhorst, Fungi europaei.
396. Urocystis Colchici (Schlecht.) Rabenh.
Polycystis *) Colchici Tulasne Ann. des Sc. nat. Febr. 1847. 117. Sporisorium Colchici Libert Pl. Ard. N. 194. Uredo Colchici Link Handb. III. 435. Rabenh. Handb. I. p. 4.
Colchici autumnalis folia destruens!
Prope Badenweiler, Junio; ad St. Peter, Schwarzwald Majo 1860 leg. De Bary.
*) Polycystis est Algarum genus!

Fig. 73

Cent. 5

Thelephora laciniata var. *vaccinii* Kalchbr. (as "*Telephora*"), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 410, 1862 [Bot. Zeitung **20**: 198, 1862].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 410 (fig. 74).

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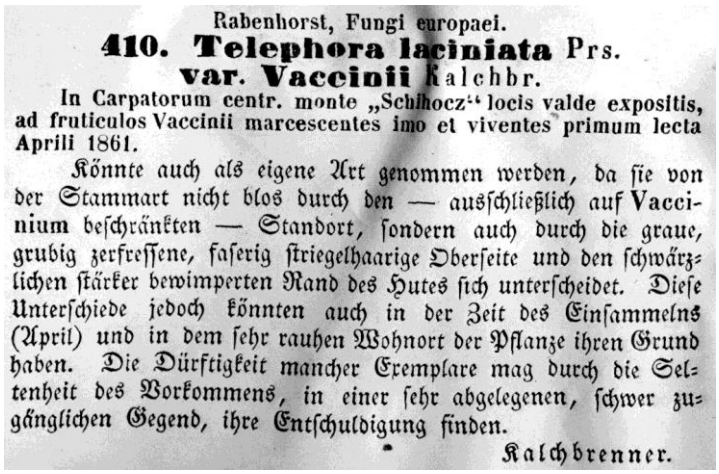
Rabenhorst, Fungi europaei.
410. Telephora laciniata Prs.
var. Vaccinii Kalchbr.
In Carpatorum centr. monte „Schihocz" locis valde expositis, ad fruticulos Vaccinii marcescentes imo et viventes primum lecta Aprili 1861.
Könnte auch als eigene Art genommen werden, da sie von der Stammart nicht blos durch den — ausschließlich auf Vaccinium beschränkten — Standort, sondern auch durch die graue, grubig zerfressene, faserig striegelhaarige Oberseite und den schwärzlichen stärker bewimperten Rand des Hutes sich unterscheidet. Diese Unterschiede jedoch könnten auch in der Zeit des Einsammelns (April) und in dem sehr rauhen Wohnort der Pflanze ihren Grund haben. Die Dürftigkeit mancher Exemplare mag durch die Seltenheit des Vorkommens, in einer sehr abgelegenen, schwer zugänglichen Gegend, ihre Entschuldigung finden.
Kalchbrenner.

Fig. 74

Hypochnus michelianus Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 413, 1862 [Bot. Zeitung **20**: 198, 1862].
≡ ***Septobasidium michelianum*** (Caldesi) Pat., Essai Tax. Hyménomyc. (Lons-le-Saunier): 10, 1900.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 413 (fig. 75).

Rabenhorst, Fungi europaei.
413. Hypochnus Michelianus Cald. Mspt.
Byssus subpurpurea, Lichenis facie, Lauri caudicibus constanter innascens, filamentis brevissimis invicem implexis et colligatis Michel. Nov. plant. genera 211. N. 13. T. 90. F. 2. Erb. critt. Ital. N. 789.
Ad Laurum in horto Boboli Florentiae Iun. 1861 leg. Caldesi.

Fig. 75

Clavaria pruinella Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 414, 1862 [Bot. Zeitung **20**: 198, 1862].
= ***Ramaria stricta*** (Pers.) Quél., Fl. mycol. France (Paris): 464, 1888.
Notes: This is a validly published species with a descriptions on the label of Fungi Eur. Exs. 414 (fig. 76).

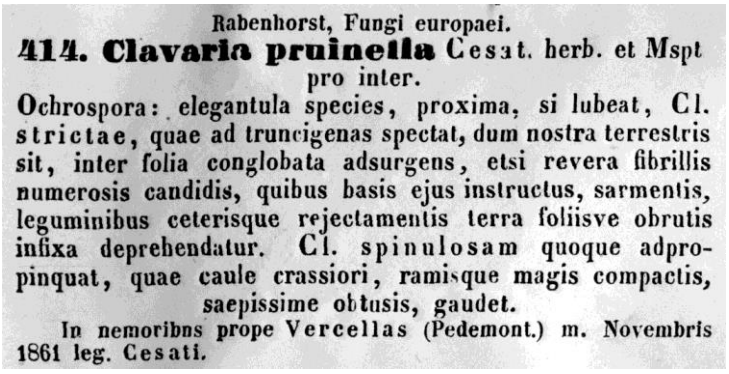
Rabenhorst, Fungi europaei.
414. Clavaria pruinella Cesat. herb. et Mspt pro inter.
Ochrospora: elegantula species, proxima, si lubeat, Cl. strictae, quae ad truncigenas spectat, dum nostra terrestris sit, inter folia conglobata adsurgens, etsi revera fibrillis numerosis candidis, quibus basis ejus instructus, sarmentis, leguminibus ceterisque rejectamentis terra foliisve obrutis infixa deprehendatur. Cl. spinulosam quoque adpropinquat, quae caule crassiori, ramisque magis compactis, saepissime obtusis, gaudet.
In nemoribus prope Vercellas (Pedemont.) m. Novembris 1861 leg. Cesati.

Fig. 76

Typhula gilva Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 419, 1862 [Bot. Zeitung **20**: 198, 1862].
= ***Pistillaria gilva*** (Lasch) Corner, Monograph of *Clavaria* and allied Genera, (Ann. Bot. Mem. **1**): 482, 1950.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 419 (fig. 77).

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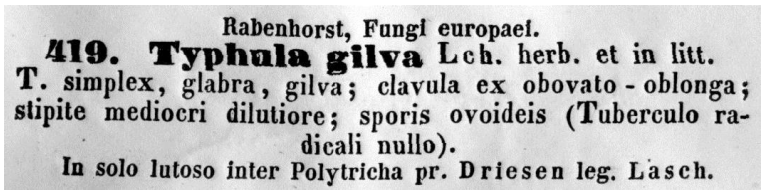
Rabenhorst, Fungi europaei.
419. Typhula gilva Lch. herb. et in litt.
T. simplex, glabra, gilva; clavula ex obovato-oblonga; stipite mediocri dilutiore; sporis ovoideis (Tuberculo radicali nullo).
In solo lutoso inter Polytricha pr. Driesen leg. Lasch.

Fig. 77

Ascobolus solms-laubachii Rabenh. [as "*solms-laubachi*"], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 420, 1862 [Bot. Zeitung **20**: 198, 1862].
≡ ***Ascozonus solms-laubachii*** (Rabenh.) Brumm., Persoonia **16**(4): 432, 1998.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 420 (fig. 78).

Rabenhorst, Fungi europaei.
420. Ascobolus Solms-Laubachi Rabenh. Mspt.
Laubach pr. Giessen leg. Com. Fr. Solms Laubach.
Diff. ab omnibus mihi notis: ascis amplis, sporis 32 repletis, paraphysibus destitutis, operculo conico!

Fig. 78

Peziza obvelata Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 422, 1862 [Bot. Zeitung **20**: 198, 1862].
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 422 (fig. 79).

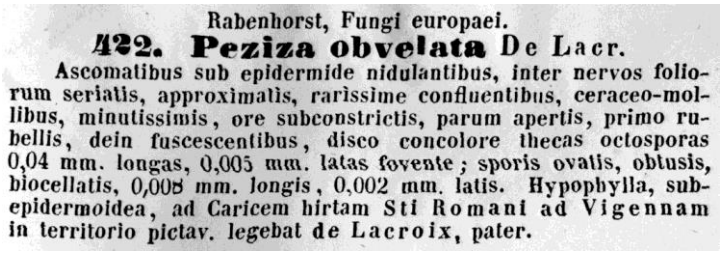
Rabenhorst, Fungi europaei.
422. Peziza obvelata De Lacr.
Ascomatibus sub epidermide nidulantibus, inter nervos foliorum serialis, approximatis, rarissime confluentibus, ceraceo-mollibus, minutissimis, ore subconstrictis, parum apertis, primo rubellis, dein fuscescentibus, disco concolore thecas octosporas 0,04 mm. longas, 0,005 mm. latas fovente; sporis ovatis, obtusis, biocellatis, 0,008 mm. longis, 0,002 mm. latis. Hypophylla, subepidermoidea, ad Caricem hirtam Sti Romani ad Vigennam in territorio pictav. legebat de Lacroix, pater.

Fig. 79

Peziza stitzenbergeri Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 427, 1862 [Bot. Zeitung **20**: 198, 1862].
≡ *Peziza umbonata* var. *epiphylla* Alb. & Schwein., Consp. fung. (Leipzig): 339, 1805 [: Fr., Syst. mycol. **2**(1): 146, 1822].
= ***Niptera umbonata*** (Pers.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 292 [1869-70] 1870.
Notes: This species was validly published as new species name based on *Peziza umbonata* var. *epiphylla* on the label of Fungi Eur. Exs. 427 (fig. 80).

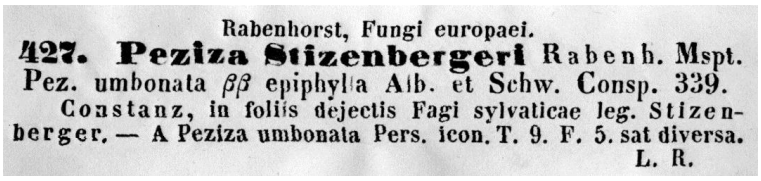
Rabenhorst, Fungi europaei.
427. Peziza Stizenbergeri Rabenh. Mspt.
Pez. umbonata ββ epiphylla Alb. et Schw. Consp. 339.
Constanz, in foliis dejectis Fagi sylvaticae leg. Stizenberger. — A Peziza umbonata Pers. icon. T. 9. F. 5. sat diversa.
L. R.

Fig. 80

Reticularia carestiana Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 436, 1862 [Bot. Zeitung **20**: 198, 1862].
≡ ***Lepidoderma carestianum*** (Rabenh.) Rostaf., Śluzowce monogr. (Paryz): 188 [1874] 1875.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 436 (fig. 81).

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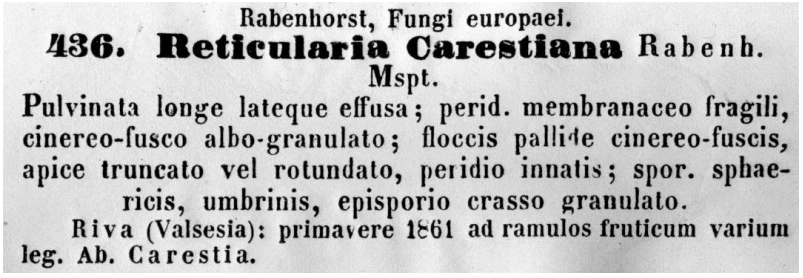
Rabenhorst, Fungi europaei.
436. Reticularia Carestiana Rabenh. Mspt.
Pulvinata longe lateque effusa; perid. membranaceo fragili, cinereo-fusco albo-granulato; floccis pallide cinereo-fuscis, apice truncato vel rotundato, peridio innatis; spor. sphaericis, umbrinis, episporio crasso granulato.
Riva (Valsesia): primavere 1861 ad ramulos fruticum varium leg. Ab. Carestia.

Fig. 81

Sphaeria vepris Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 443, 1862 [Bot. Zeitung **20**: 199, 1862].

≡ *Sphaeria rubi* Currey, Trans. Linn. Soc. London **22**: 325, 1859, nom. illeg. (Art. 53.1), non Mart., 1817.

≡ ***Anisogramma vepris*** (Lacroix) Merezhko, in Smitskaya, Smyk & Merezhko, Opredelitel' Pirenomitsetov USSR (Kiev): 258, 1986.

Notes: The new name *Sphaeria vepris*, based on *Sphaeria rubi* Currey, 1859, non Mart., 1817, was validly published on the label of Fungi Eur. Exs. 443 (fig. 82).

Rabenhorst, Fungi europaei.
443. Sphaeria Vepris De Lacr. in litt.
Sph. Rubi Currey Transact. Linn. Soc. Vol. XXII. p. 325. Tab. 58. F. 91., videtur nov. sp.; ideo non Sph. Rubi Mart. Flor. Erl. — Wallr. — Mont.; nec. Sph. rostellata Fries obs. — Syst. — Duby.
Sph. rostellata, forma minor Desmaz. pl. crypt. de Fr. Ser. 2. N. 783.
Ad Rubum igne necatum, mense Februario 1859 Sti Romani ad Vigennam, in agro pictav. legebat T. de Lacroix.

Fig. 82

Pleospora dianthi Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 451, 1862 [Bot. Zeitung **20**: 199, 1862].

≡ *Sphaeria dianthi* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Ed. Nova, Cent. 18: no. 1734, 1853, nom. illeg. (Art. 53.1), non Alb. & Schwein, 1805.

Notes: *Pleospora dianthi* is a new name based on *Sphaeria dianthi* Ces., 1853, non Alb. & Schwein., 1805, validly published on the label of Fungi Eur. Exs. 451 (fig. 83). *Pleospora dianthi* De Not., Sfer. Ital.: 74, 1863, nom. illeg. (Art. 53.1) is a younger homonym.

Rabenhorst, Fungi europaei.
451. Pleospora Dianthi Rabenh. Mspt.
Sphaeria Dianthi Ces. in Rabenh. herb. mycol. ed. I.
Vercellis: ad Dianthum proliferum leg. Cesati.

Fig. 83

Sphaeronaema spinella Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 456, 1862 [Bot. Zeitung **20**: 199, 1862].

≡ ***Cytonaema spinella*** (Kalchbr.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **123**: 84, 1914.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 456 (fig. 84).

Lophodermium rhododendri Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 458, 1862 [Bot. Zeitung **20**: 199, 1862], nom. nud.

≡ *Lophodermium rhododendri* Ces. ex Rehm, Ber. Naturhist. Vereins Augsburg **26**: 34, 1881.

≡ ***Lophomerum rhododendri*** (Ces. ex Rehm) Remler, Biblioth. Mycol. **68**: 179, [1979] 1980.

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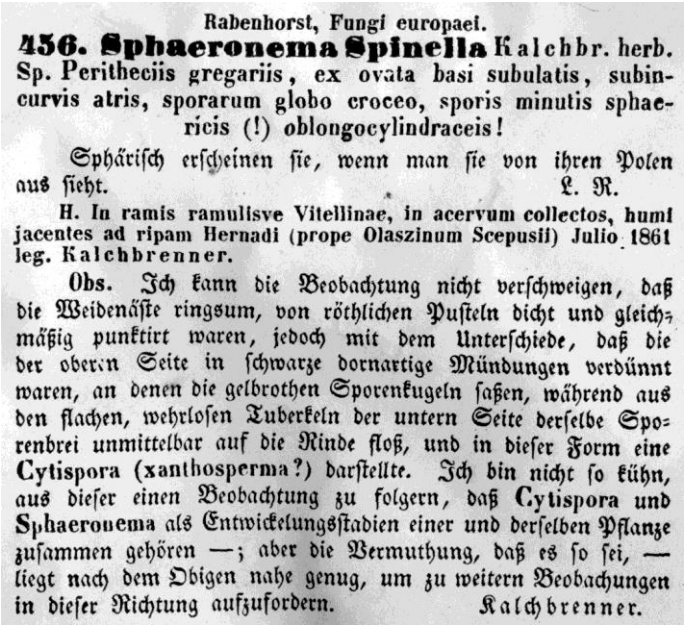
Rabenhorst, Fungi europaei.
456. Sphaeronema Spinella Kalchbr. herb.
Sp. Peritheciis gregariis, ex ovata basi subulatis, subincurvis atris, sporarum globo croceo, sporis minutis sphaericis (!) oblongocylindraceis!
Sphärisch erscheinen sie, wenn man sie von ihren Polen aus sieht. L. R.
H. In ramis ramulisve Vitellinae, in acervum collectos, humi jacentes ad ripam Hernadi (prope Olaszinum Scepusii) Julio 1861 leg. Kalchbrenner.
Obs. Ich kann die Beobachtung nicht verschweigen, daß die Weidenäste ringsum, von röthlichen Pusteln dicht und gleichmäßig punktirt waren, jedoch mit dem Unterschiede, daß die der oberen Seite in schwarze dornartige Mündungen verdünnt waren, an denen die gelbrothen Sporenkugeln saßen, während aus den flachen, wehrlosen Tuberkeln der untern Seite derselbe Sporenbrei unmittelbar auf die Rinde floß, und in dieser Form eine Cytispora (xanthosperma?) darstellte. Ich bin nicht so kühn, aus dieser einen Beobachtung zu folgern, daß Cytispora und Sphaeronema als Entwickelungsstadien einer und derselben Pflanze zusammen gehören —; aber die Vermuthung, daß es so sei, — liegt nach dem Obigen nahe genug, um zu weitern Beobachungen in dieser Richtung aufzufordern. Kalchbrenner.

Fig. 84

Cosmospora Rabenh. and *Cosmospora coccinea* Rabenh., Hedwigia **2**: 59, 1862 [Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 459, 1862; Bot. Zeitung **20**: 199, 1862].

Helminthosporium fructigenum Rabenh. (as "*frunctigenum*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 468, 1862 [Bot. Zeitung **20**: 199, 1862].
≡ *Brachysporium fructigenum* (Rabenh.) Sacc., Syll. fung. (Abellini) **4**: 429, 1886.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 468 (fig. 85).

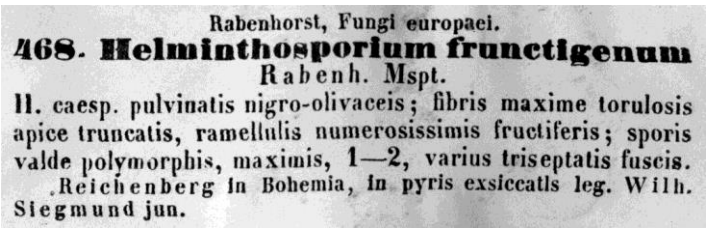
Rabenhorst, Fungi europaei.
468. Helminthosporium frunctigenum
Rabenh. Mspt.
H. caesp. pulvinatis nigro-olivaceis; fibris maxime torulosis apice truncatis, ramellulis numerosissimis fructiferis; sporis valde polymorphis, maximis, 1—2, varius triseptatis fuscis.
Reichenberg in Bohemia, in pyris exsiccatis leg. Wilh. Siegmund jun.

Fig. 85

Epicoccum dispersum Ces. & Mont., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 472, 1862 [Bot. Zeitung **20**: 199, 1862].
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 472 (fig. 86).

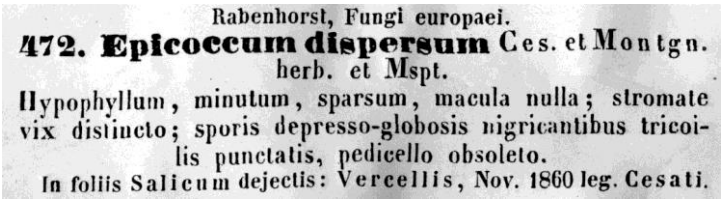
Rabenhorst, Fungi europaei.
472. Epicoccum dispersum Ces. et Montgn.
herb. et Mspt.
Hypophyllum, minutum, sparsum, macula nulla; stromate vix distincto; sporis depresso-globosis nigricantibus tricoilis punctatis, pedicello obsoleto.
In foliis Salicum dejectis: Vercellis, Nov. 1860 leg. Cesati.

Fig. 86

Bactridium album (Riess) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 473, 1862 [Bot. Zeitung **20**: 199, 1862].
≡ ***Mastigosporium album*** Riess, in Fresenius, Beitr. Mykol. **2**: 56, 1852.

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Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 473 (fig. 87).

Rabenhorst, Fungi europaei.
473. **Bactridium album** Bon.
Syn. Mastigosporium album Riess.
in Fresenius Beiträgen II. p. 56.
Caespitibus minutissimis albis, macula nigra cinctis; sporis oblongis apice acutatis et ciliatis, basi rotundatis, hyalinis albis, pedicello brevi simplici suffultis, ter quaterque septatis et articulatis.
Hab. in foliis Graminum.
Anmerk. Pestalozzia macrospora Cesati. Rab. herbar. Edit. I. N. 1663 ist ebenfalls ein Bactridium.
Anmerk. Da Bactridium wirklich septirte und nicht oben und unten leere Sporen (unreifer Zustand) hat, so kann es keinem Zweifel unterliegen, daß diese Pilze zu Bactridium gehören.
Bonorden.

Fig. 87

Physonema vulgare (Fr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 474, 1862 [Bot. Zeitung **20**: 199, 1862].
≡ *Epitea vulgaris* Fr., Summa veg. Scand., Sectio Post. (Stockholm): 512, 1849.
Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 474 (fig. 88).

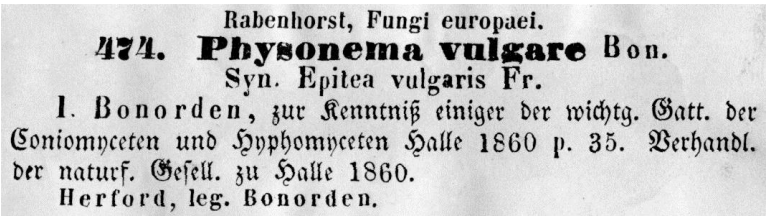
Rabenhorst, Fungi europaei.
474. **Physonema vulgare** Bon.
Syn. Epitea vulgaris Fr.
I. Bonorden, zur Kenntniß einiger der wichtg. Gatt. der Coniomyceten und Hyphomyceten Halle 1860 p. 35. Verhandl. der naturf. Gesell. zu Halle 1860.
Herford, leg. Bonorden.

Fig. 88

Cystopus spinulosus de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 479, 1862 [Bot. Zeitung **20**: 199, 1862].
≡ ***Pustula spinulosa*** (de Bary) Thines, Mycotaxon **92**: 455, 2005.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 479 (fig. 89).

Rabenhorst, Fungi europaei.
479. **Cystopus spinulosus** D By Mspt.
A Cyst. cubico destinguitur oosporis spinuloso-scabris.
In Cirsii arvensis foliis leg. Friburgi auctumno 1861.
A. De Bary.

Fig. 89

Cystopus lepigoni de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 483, 1862 [Bot. Zeitung **20**: 200, 1862; Ann. Sci. Nat., Bot., Sér. 4, **20**: 132, 1863].
≡ ***Albugo lepigoni*** (de Bary) Kuntze, Revis. gen. pl. (Leipzig) **2**: 658, 1891.
Notes: This species was validly published with a description on the the label of Fungi Eur. Exs. 483 (fig. 90). The description was later repeated in de Bary (1863: 132), who referred to earlier publications of the new taxa in Rabenhorst's exsiccata (see *Cystopus spinulosus* on page 133). *Erysibe arenariae-marinae* Wallr. was cited as synonym. However, this name has never been validly published. Rabenhorst (1844: 13) just cited this name (as "Wallr., in litt.") as synonym (pro. syn.) of *Uredo candida* d. *caryophyllacearum*.

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Rabenhorst, Fungi europaei.
483. Cystopus Lepigoni de Bary Mspt.
Erysibe Arenariae marinae Wallr. Rab. Handb.
Er. Sphaerica β. Wallr. fl. germ. cr.
Zoosporangia globosa, membrana ubique aequali. Oosporae fuscae, tenuissime tuberculatae.
In Lepigono medio Wahlb. ad Salinas prope Kreuznach leg. L. Fuckel.

Fig. 90

Coleosporium cacaliae (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 484, 1862 [Bot. Zeitung **20**: 200, 1862].
≡ *Uredo cacaliae* DC., Encycl. Méth. Bot. **8**: 223, 1808.
≡ *Coleosporium cacaliae* (DC.) Lév., Ann. Sci. Nat., Bot., Sér. 3, **8**: 375, 1847, nom. inval., Art. 35.2.
≡ *Coleosporium cacaliae* (DC.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 43, [1869-1870] 1870, isonym (Art. 6.3, Note 2).
= *Coleosporium cacaliae* G.H. Otth, Mitt. Naturf. Ges. Bern **580-602**: 179, [1865] 1866, nom. illeg. (Art. 53.1), non (DC.) Rabenh., 1862.
Notes: This is a validly published combination introduced on the the label of Fungi Eur. Exs. 484 (fig. 91). Otth (1866) published *Coleosporium cacaliae* as new species, i.e., *Uredo cacaliae* was not cited as basionym of a combination.

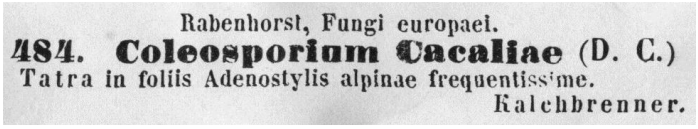
Rabenhorst, Fungi europaei.
484. Coleosporium Cacaliae (D. C.)
Tatra in foliis Adenostylis alpinae frequentissime.
Kalchbrenner.

Fig. 91

Puccinia rumicis Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 496, 1862 [Bot. Zeitung **20**: 200, 1862], nom. illeg. (Art. 53.1), non Bellynck, 1852.
Notes: This species was published with a description on the label of Fungi Eur. Exs. 496 (fig. 92), but the name is illegitimate (younger homonym).

Rabenhorst, Fungi europaei.
496. Puccinia Rumicis Lich.
Cum Uromyce Rumicum flavido-fusca mixta!
Acervulis subrotundis nigro-fuscis, sporis ovalibus utrinque obtusis, medio uniseptatis, basi breviter hyalino-pedicellatis.
In foliis R. Acetosa pr. Driesen rarius. Lasch.

Fig. 92

Cent. 6

Agaricus laccatus var. *perpusillus* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 503, 1863 [Bot. Zeitung **21**: 229, 1863].
Notes: This variety was validly published with a description on the label of Fungi Eur. Exs. 503 (fig. 93).

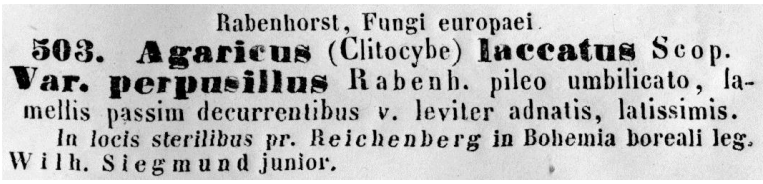
Rabenhorst, Fungi europaei.
503. Agaricus (Clitocybe) laccatus Scop.
Var. perpusillus Rabenh. pileo umbilicato, lamellis passim decurrentibus v. leviter adnatis, latissimis.
In locis sterilibus pr. Reichenberg in Bohemia boreali leg. Wilh. Siegmund junior.

Fig. 93

Marasmius karlii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 506, 1863 [Bot. Zeitung **21**: 229, 1863].

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Notes: This species was validly published with a brief diagnosis on the label of Fungi Eur. Exs. 506 (fig. 94), emphasizing that this species is intermediate between *M. androsaceus* (L.) Fr. and *M. rotula* (Scop.) Fr.

Rabenhorst, Fungi europaei.
506. Marasmius Karlii Rabenh. Mspt.
M. forma, quae inter M. androsaceum et M. Rotulam medium tenet.
Gregarie ad Pini truncos mucidos vetustos pr. Mariae balneum Bohemiae, Junio 1862 leg. Karl.

Fig. 94

Peziza infarciens Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 515, 1863 [Bot. Zeitung **21**: 229, 1863].
≡ *Helotium infarciens* (Ces.) Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 378, 1863.
≡ ***Hymenoscyphus infarciens*** (Ces.) Dennis, Persoonia **3**(1): 74, 1964.
Notes: *Peziza infarciens* was validly published with a description on the label of Fungi Eur. Exs. 515 (fig. 95). *Helotium infarciens* is a combination based on *Peziza infarciens*, which was cited as synonym by Cesati & de Notaris (1863).

Rabenhorst, Fungi europaei.
515. Peziza infarciens Ces. hb. et mss.
Ad ramos ramulosque Cytisi alpini encortuos, subcutanea, dice tecta, et nisi maturitati proxima per rimas longitudinales erumpens. Laete flava, e stipite plus minus compresso dilutiori in cupulam obtuse marginatam dilatata, nunc sparsa, nunc saepiusque caespitosa. Pro P. citrinae forma abnormi e situ mox habui; sed analysis microscopica de specie propria hic agi mihi suasit. In P. citrina ex Rabh. hb. mycol. Ed. I. N. 333. et speciminibus nostratibus, asci e cylindraceo clavati, pro tertia parte in pedicellum angustati, 22/500 mm. longi, 2—3/500 mm. lati, sporidia navicularia utrinque acuta foventes. Illi fungilli nostri, e contra, perfecte cylindracei, etsi maturitatem perfectam non adtinxerint, longitudinem 50/500 mm., latitudinem 6/500 mm. metiuntur; sporae ovales obtusae mihi visae.
St. Giovanni di Campiglia (vallis d'Andorno, ditionis Bugellensis in Pedemontio). — Sept. 1861. Cesati.

Fig. 95

Peziza cyanoderma de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 516, 1863 [Bot. Zeitung **21**: 229, 1863].
= ***Caloscypha fulgens*** (Pers.) Boud., Hist. Class. Discom. Eur. (Paris): 54, 1907.
Notes: *Peziza cyanoderma* is a valid species published with a description on the label of Fungi Eur. Exs. 516 (fig. 96). This species is a synonym of *Caloscypha fulgens* (see Fraiture & Notte 2001)

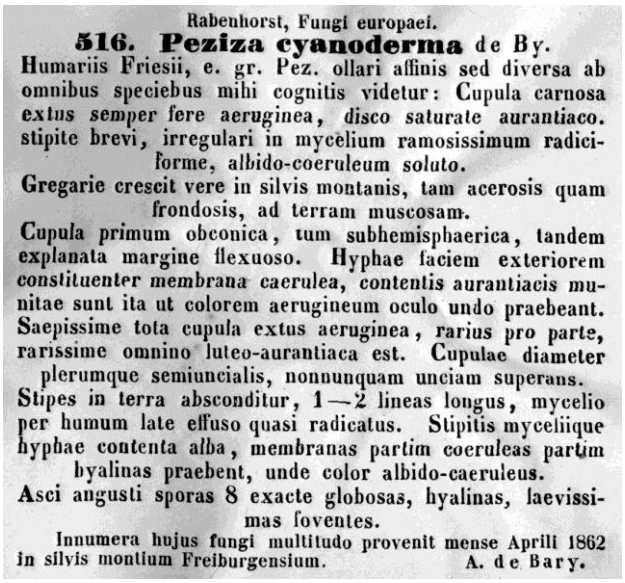
Rabenhorst, Fungi europaei.
516. Peziza cyanoderma de By.
Humariis Friesii, e. gr. Pez. ollari affinis sed diversa ab omnibus speciebus mihi cognitis videtur: Cupula carnosa extus semper fere aeruginea, disco saturate aurantiaco. stipite brevi, irregulari in mycelium ramosissimum radiciforme, albido-coeruleum soluto.
Gregarie crescit vere in silvis montanis, tam acerosis quam frondosis, ad terram muscosam.
Cupula primum obconica, tum subhemisphaerica, tandem explanata margine flexuoso. Hyphae faciem exteriorem constituenter membrana caerulea, contentis aurantiacis munitae sunt ita ut colorem aerugineum oculo undo praebeant. Saepissime tota cupula extus aeruginea, rarius pro parte, rarissime omnino luteo-aurantiaca est. Cupulae diameter plerumque semiuncialis, nonnunquam unciam superans.
Stipes in terra absconditur, 1—2 lineas longus, mycelio per humum late effuso quasi radicatus. Stipitis myceliique hyphae contenta alba, membranas partim coeruleas partim hyalinas praebent, unde color albido-caeruleus.
Asci angusti sporas 8 exacte globosas, hyalinas, laevissimas foventes.
Innumera hujus fungi multitudo provenit mense Aprili 1862 in silvis montium Freiburgensium. A. de Bary.

Fig. 96

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Hysterographium eupatorii Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 530, 1863 [Bot. Zeitung **21**: 229, 1863].
≡ *Glonium eupatorii* (Lasch) Sacc., Syll. fung. (Abellini) **11**: 386, 1895.
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 530 (fig. 97).

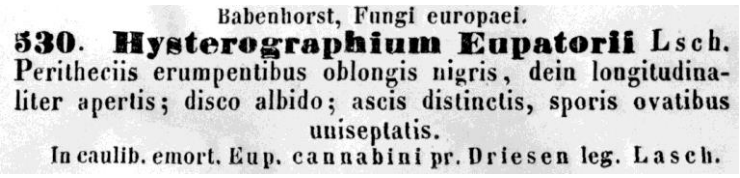
Rabenhorst, Fungi europaei.
530. Hysterographium Eupatorii Lsch.
Peritheciis erumpentibus oblongis nigris, dein longitudinaliter apertis; disco albido; ascis distinctis, sporis ovatibus uniseptatis.
In caulib. emort. Eup. cannabini pr. Driesen leg. Lasch.

Fig. 97

Sphaeria luzulae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 533, 1863 [Bot. Zeitung **21**: 229, 1863].
≡ ***Phyllachora luzulae*** (Rabenh.) Cooke, Grevillea **13**(67): 64, 1885.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 533 (fig. 98).

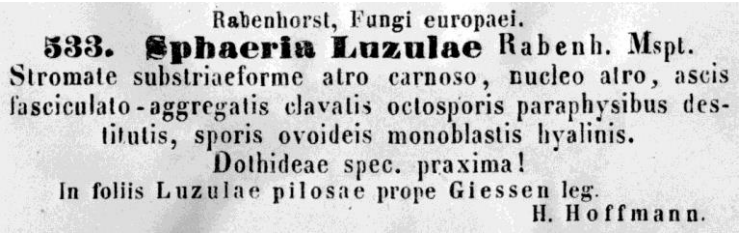
Rabenhorst, Fungi europaei.
533. Sphaeria Luzulae Rabenh. Mspt.
Stromate substriaeforme atro carnoso, nucleo atro, ascis fasciculato-aggregatis clavatis octosporis paraphysibus destitutis, sporis ovoideis monoblastis hyalinis.
Dothideae spec. praxima!
In foliis Luzulae pilosae prope Giessen leg.
H. Hoffmann.

Fig. 98

Hendersonia conorum Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 540, 1863 [Bot. Zeitung **21**: 229, 1863].
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 540 (fig. 99).

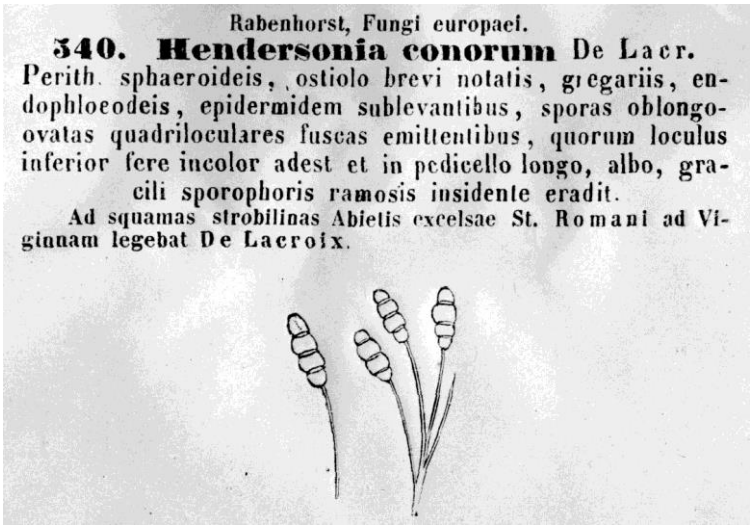
Rabenhorst, Fungi europaei.
540. Hendersonia conorum De Lacr.
Perith. sphaeroideis, ostiolo brevi notatis, gregariis, endophloeodeis, epidermidem sublevantibus, sporas oblongo-ovatas quadriloculares fuscas emittentibus, quorum loculus inferior fere incolor adest et in pedicello longo, albo, gracili sporophoris ramosis insidente eradit.
Ad squamas strobilinas Abietis excelsae St. Romani ad Viginnam legebat De Lacroix.

Fig. 99

Diplodia mori (Chaillet ex Fr.) Auersw. Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 544, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 53.1), non Berk., 1847.
≡ *Sphaeria mori* Chaillet ex Fr., Syst. mycol. (Lundae) **2**(2): 494, 1823, nom. inval. (Art. 38.1, a).
Notes: This is an illegitimate name (combination), based on an invalid basionym (fig. 100).

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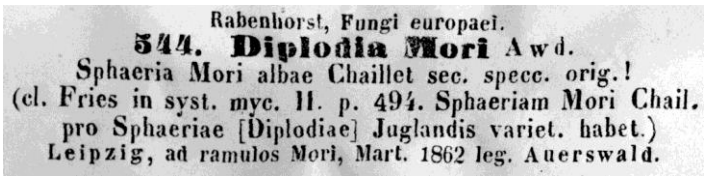
Rabenhorst, Fungi europaei.
544. Diplodia Mori Awd.
Sphaeria Mori albae Chaillet sec. specc. orig.!
(cl. Fries in syst. myc. II. p. 494. Sphaeriam Mori Chail.
pro Sphaeriae [Diplodiae] Juglandis variet. habet.)
Leipzig, ad ramulos Mori, Mart. 1862 leg. Auerswald.

Fig. 100

Nodulosphaeria dolioloides Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 547, 1863 [Bot. Zeitung **21**: 230, 1863].
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 547 (fig. 101).

Rabenhorst, Fungi europaei.
547. Nodulosphaeria dolioioides Awd.
Sporae fusiformes, suboctoblastes, melleae; cellula ab apice quarta leniter turgida.
(Sporae omnino eaedem ac in Nodulosphaeria hirta Rbh. herb. myc. ed. II. n. 725.)
Gross-Drebnitz pr. Bischofswerda (Saxoniae) ad caules Tanaceti officinalis. Mai 1862. Auerswald.

Fig. 101

Depazea sorbicola Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 548, 1863 [Bot. Zeitung **21**: 230, 1863].
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 548 (fig. 102). Laibach (1920) examined syntype material, but could not trace any conidia. Nevertheless, he considered *Depazea sorbicola* a probable synonym of *Septoria sorbi* Lasch [current valid name – *Septoria sorbi* Sacc. (see Braun 2018a: 6, as "*S. sorbi* (Sacc.) Sacc."]. Syntype material preserved at HAL has been re-examined, but this sample is also sterile. Rabenhost (l.c.) just mentioned the formation of acrogenous conidia, but, in contrast to many other descriptions published in his exsiccata, he did not give any further details, suggesting that the whole material or at least almost all duplicates were immature when collected and distributed. However, the conidiomata in this sample are rather small (50–75 µm diam.). Pycnidia of *Septoria sorbi* are much larger, about 90–200 µm diam. (see Teterevnikova-Babayan, 1987: 376), and ascomata of the putative sexual morph of *S. sorbi* (see Laibach 1920) are 80–120 µm diam. The leaf spots of *Depazea sorbicola* and the size of the conidiomata agree well with a modern description of "*Asteromella trautmanniana* (Moesz) Moesz" in Ruszkiewicz-Michalska (2016: 96), based on collections from Poland on *Sorbus aucuparia*. However, the Polish collections on *S. aucuparia* (conidia cylindrical, (3–)4.5–7.5 × (0.6–)1–1.5 µm) do not agree with the original description of *A. trautmanniana* (conidia ellipsoid, 7–8 × 2–4 µm), a species described from Hungary on *Torminalis glaberrima* (= *Sorbus torminalis*). Furthermore, the generic affinity of the genuine *A. trautmanniana* is not yet clear. The ellipsoid conidia are not in favour of *Asteromella*. According to van der Aa & Vanev (2002), the original description and illustration of the latter species rather suggest an affinity to the genus *Leptodothiorella*, but a species of *Phoma* can also not be ruled out (there are several common *Phoma* species known from species of *Sorbus s. lat*., see Aa & Vanev 2002). The species on *Sorbus aucuparia*, belonging in *Asteromella*, seems to be rather common, at least in Poland. *Depazea sorbicola* seems to refer to this species, but due to the absence of conidia in type material it would be necessary to determine the application of this name by epitypification, which will be proposed elsewhere.

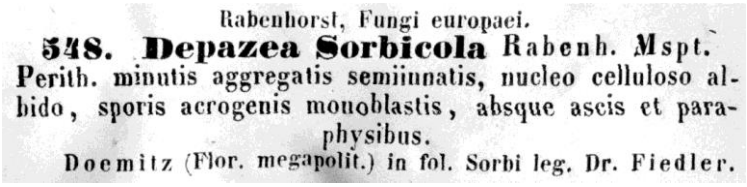
Rabenhorst, Fungi europaei.
548. Depazea Sorbicola Rabenh. Mspt.
Perith. minutis aggregatis semiinnatis, nucleo celluloso albido, sporis acrogenis monoblastis, absque ascis et paraphysibus.
Doemitz (Flor. megapolit.) in fol. Sorbi leg. Dr. Fiedler.

Fig. 102

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Phyllosticta sagittariae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 553, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.
Notes: This is a nom. nud., published without description or diagnosis. Van der Aa & Vanev (2002: 409) mentioned that they could not find any pycnidial fungi in the syntype collections examined. The syntype preserved in HAL has been examined. *Phyllosticta sagittariae* is probably a synonym of *Doassansia sagittariae* (Fuckel) J.C. Fisch.

Spilosphaeria comari Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 554, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.
≡ *Septoria comari* Sacc. (as "(Lasch) Sacc."), Syll. fung. (Abellini) **10**: 363, 1892, nom. nud.
Notes: *Spilosphaeria comari* was published without description or diagnosis. Saccardo (l.c.) allocated this species to *Septoria*, but he failed to validate this species by adding a description.

Stemonitis friesiana de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 568, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 52.1).
Notes: de Bary (l.c.) included in the original description two previously published valid species (as varieties): *Stemonitis oblonga* Fr. and *St. obtusata* (Fries 1829: 150–160), see fig. 103.

Rabenhorst, Fungi europaei.
568. **Stemonitis Friesiana** De By. in litt. ad Jack.
Var. α. **oblonga** (Fr. Syst. III. 159.) De By.
Var. β. **obtusata** (Fr. l. l. 160.) De By.
„Der Hauptcharacter der St. Friesiana besteht in dem sehr dichten Capillitium, dessen Fasern sehr stark gewunden, fast nirgends mit frei endigenden Zweigen versehen und überall fast gleich dick sind."
Selem (Bodensee-Gegend, ad truncos putridos leg. Jack.

Fig. 103

Arthrinium sporophlaeum Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 576, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

Cladosporium caespiticium Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 579, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.
= ***Cladosporium herbarum*** (Pers. : Fr.) Link, Ges. Naturf. Freunde Berlin Mag. Neuesten Entdeck. Gesammten Naturk. **7**: 37, 1816. See Bensch et al. (2012: 154).

Sporotheca pannosa Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 580, 1863 [Bot. Zeitung **21**: 230, 1863].
Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 580 (fig. 104).

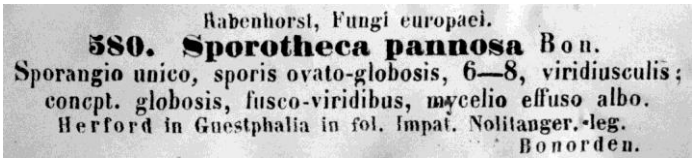
Rabenhorst, Fungi europaei.
580. **Sporotheca pannosa** Bon.
Sporangio unico, sporis ovato-globosis, 6—8, viridiusculis; concpt. globosis, fusco-viridibus, mycelio effuso albo.
Herford in Guestphalia in fol. Impat. Nolitanger. leg.
Bonorden.

Fig. 104

Atractium rigidum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 581, 1863 [Bot. Zeitung **21**: 230, 1863; Abh. Naturforsch. Ges. Halle **8**: 96, 1864].
≡ *Epidochium rigidum* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 748, 1886.

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Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 581 (fig. 105).

Rabenhorst, Fungi europaei.

581. **Atractium rigidum** Bon.

Conceptaculo sessili tuberculiforme fusco epidermidi innato coque cincto; hyphis virgato-ramosis curtis in apicibus ramorum sporas exserentibus; sporis fusiformibus utrinque acutis et curvatis.

Hab. in ramis emortuis in Guestphalia.

Ein kleinzelliges Receptaculum von brauner Farbe, in die Epidermis etwas eingesenkt, auf diesem ruhen kurze ästige Hyphen, von deren Spitzen die Sporen entspringen. Hyphen und Sporen sind trocken, fast hornartig und erheben sich von jedem Receptaculum in mehreren Spitzen, so daß der Pilz einer Sphärie mit zugespitzten ossiolis ähnlich erscheint.

Sch. B. Durchschnitt

Sporen

Hyphe

Bonorden.

Fig. 105

Scolicotrichum venosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 582, 1863 [Bot. Zeitung **21**: 230, 1863; Abh. Naturforsch. Ges. Halle **8**: 96, 1864].
= *Fusicladium pomi* (Fr.) Lind, Danish Fungi (Copenhagen): 521, 1913.
= ***Venturia inaequalis*** (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. 3: no. 261, 1875.
Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 582 (fig. 106). It is a synonym of *Venturia inaequalis* (see Schubert et al. 2003).

Rabenhorst, Fungi europaei.

582. **Scolicotrichum venosum** Bon.

Sp. nova.

Hyphis erectis curtis haud septatis, sporis longis pyriformibus, semel septatis, viridibus; mycelio ramoso venoso et articulato, in superficie foliorum radiante.

Forma sporarum

Uebergangsform zu Scolicotrichum baciligerum.

Hab. in foliis malorum et pyror. in Guestphalia.

Fig. 106

Cent. 7

Peziza leineri Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 617, 1864 [Bot. Zeitung **22**: 173, 1864], nom. nud.
≡ *Peziza leineri* Rabenh. & Gonn., Myc. Europ. (Dresden): tab. 5, fig. 4, 1870.

Peziza trachycarpa Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 620, 1864 [Bot. Zeitung **22**: 173, 1864; Hedwigia **3**: 71, 1864; Trans. Linn. Soc. London **24**: 493, 1864].
≡ ***Lamprospora trachycarpa*** (Curr.) Seaver, Mycologia **6**(1): 19, 1914.
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 620 (fig. 107).

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Rabenhorst, Fungi europaei.
620. Peziza trachycarpa n. s.
Prima aetate orbicularis, fere plana, et saepissime umbilicata; discus nigro-fuscus, asper et tuberculatus. Cupula 1/4 ad 6/4 unciæ latæ, solo adpressa, extus minute granulata, substipitata vel obconica. Paraphyses biformes; aliæ filiformes apicem versus aliquanto clavatæ; aliæ latæ et pallide fuscæ, ascis vacuis simillimæ. Hae fere multum corrugatæ, hymenii sectioni aspectum mirum sub microscopio præbentes. Sporidia uniseriata, penitus globosa, muricata, fusca, 0.0005 unciæ lata. Supra solum deustum, Ascot, Com. Surrey, Nov. 1863. Sporidia, licet sub microscopio fusca, supra chartam nigram demissa, albo-grisea sunt.
J. Currey. Mss.

Fig. 107

Peziza leiocarpa Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 622, 1864 [Bot. Zeitung **22**: 173, 1864; Hedwigia **3**: 71, 1864; Trans. Linn. Soc. London **24**: 493, 1864].
= ***Plicaria endocarpoides*** (Berk.) Rifai, Verh. K. Ned. Akad. Wet., Tweede Sect. **57**(3): 255, 1968.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 622 (fig. 108).

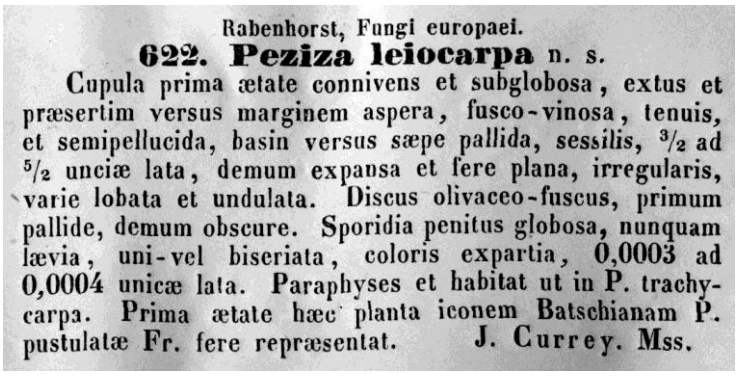
Rabenhorst, Fungi europaei.
622. Peziza leiocarpa n. s.
Cupula prima ætate connivens et subglobosa, extus et præsertim versus marginem aspera, fusco-vinosa, tenuis, et semipellucida, basin versus sæpe pallida, sessilis, 3/2 ad 5/2 unciæ lata, demum expansa et fere plana, irregularis, varie lobata et undulata. Discus olivaceo-fuscus, primum pallide, demum obscure. Sporidia penitus globosa, nunquam lævia, uni-vel biseriata, coloris expartia, 0,0003 ad 0,0004 unicæ lata. Paraphyses et habitat ut in P. trachycarpa. Prima ætate hæc planta iconem Batschianam P. pustulatæ Fr. fere repræsentat. J. Currey. Mss.

Fig. 108

Naevia lauri Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 626, 1864 [Bot. Zeitung **22**: 173, 1864], nom. nud.
≡ *Naevia lauri* Caldesi, Erb. critt. Ital., Ser. 1, fasc.: no. 491 [1863] 1864.
≡ ***Hysterostegiella lauri*** (Caldesi) B. Hein, Nova Hedwigia **38**: 689, 1983.

Sphaerella euonymi (Kunze ex Fr.) Rabenh. (as "*evonymi*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 657, 1864 [Bot. Zeitung **22**: 174, 1864].
≡ *Sphaeria euonymi* Kunze ex Fr., in Fries, Syst. mycol. (Lundae) **2**(2): 439, 1823.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 657 (fig. 109).

Rabenhorst, Fungi europaei.
657. Sphaerella Evonymi (Kunze) Rabenh.
Sphaeria Evonymi Kze. et Sm.
Vercelli, mens. Mart. leg. Cesati.

Fig. 109

Capnodium nerii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 662, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].
≡ *Microxyphiella nerii* (Rabenh.) Speg., Physis, B. Aires, C **4**(17): 294, 1918.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 662 (fig. 110).

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Rabenhorst, Fungi europaei.
662. Capnodium Nerii Rabenh. herb. et Mspt.
Mycelio moniliformi ramoso-reticulato, illo Capnodii Citri simillimo; peridiis elongatis subconicis, sporis oblongis uniseptatis.
In foliis Nerii prope Mentone Galliae leg. Böttcher.
NB. Specimina non omnia bene evoluta.

Fig. 110

Capnodium rhamnicola Rabenh. (as "*rhamnicolum*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 666, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].
≡ *Microxyphiella rhamnicola* (Rabenh.) Speg., Physis, B. Aires, C **4**(17): 294, 1918.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 666 (fig. 111).

Rabenhorst, Fungi europaei.
666. Capnodium Rhamnicolum Rabenh. Mspt.
C. mycelio moniliformi vage ramoso, peridio brevi e basi dilatata subconico, sporis elliptico-oblongis hyalinis uniseptatis. Socio Coniothecio quodam.
In foliis Rhamni prope Carlsbad Bohemiae leg. ipse.

Fig. 111

Depazea sambucicola Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 668, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 668 (fig. 112).

Rabenhorst, Fungi europaei.
668. Depazea Sambucicola Kalchbr. Mspt.
D. maculis sat amplis subangulatis griseis, purpureo-fusco limitatis; peritheciis crebris, sparsis, subprominulis, minutis, fusco-atris, sporis acrogenis minutissimis hyalinis globosis.
Prope Wallendorf Hungariae leg. C. Kalchbrenner.

Fig. 112

Isaria hypoxyli Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 670, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 670 (fig. 113).

Rabenhorst, Fungi europaei.
670. Isaria Hypoxyli Kalchbr. Mspt.
I. clavulis estipitatis, ramosis, cervinis in cæspitulos, ambitu radiantes collectis, ramis divisis, apice subdilatatis undique floccoso-pulverulentis.
Hab. super Hypoxylo coccineo ad corticem lignorum focalium, in sylva coacervatorum, ibique putrescentium; raro. Vere. (28. Mart 1863.) Hungar. boscal. ad Olaszinum Scepusii.
Rosen, 3—4''' im Durchmesser, finden sich stets an ein Hypoxylon geheftet, dessen Basis von einem Kranze dendritisch verzweigter Keulchen umgeben wird, welche der Rinde dicht anliegen. Oft auch findet sich das Hypoxylon selbst von der Isaria überzogen, welche dann im Centrum staubig-lappig oder knollig verzweigt erscheint. Die Farbe schwebt zwischen lichtbraun und bräunlich-fleischroth. Basidien zahlreich, hervorragend, bogig gekrümmt, an der Spitze je eine kugliche farblose Spore abschnürend.
C. Kalchbrenner.

Fig. 113

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Leptothyrium cylindrospermum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 678, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 74, 1864].

≡ *Gloeosporium cylindrospermum* (Bonord.) Sacc., Fungi italica autogr. del. 17-28: tab. 1027 [1881] 1882.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 678 (fig. 114).

Rabenhorst, Fungi europaei.
678. Leptothyrium cylindrospermum
Bonord.
Epiphyllum, peridiis convexis, depressis rotundis s. ovatis, scutiformibus, atris, nitidis, ostiolo simplici pertusis, nucleo albo; hyphis (basidiis autor.) simplicibus apice sporas cylindricas utrinque obtusiusculas exserentibus.
Hab. in foliis Alni vivis in Westphalia leg. Geisenheiner.

Fig. 114

Dacrymyces succineus Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 680, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ ***Pseudocenangium succineum*** (Sprée) Dyko & B. Sutton, Canad. J. Bot. **57**(4): 372, 1979.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 680 (fig. 115).

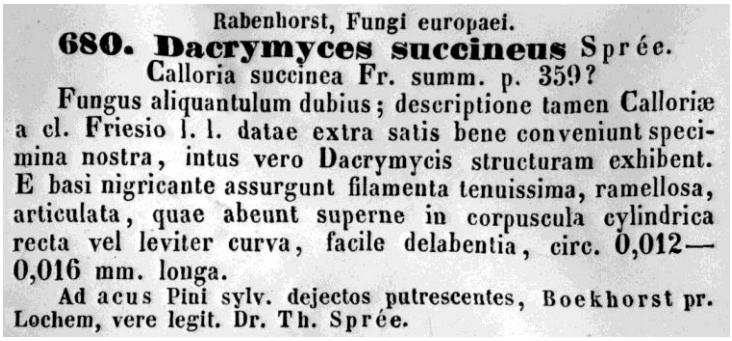
Rabenhorst, Fungi europaei.
680. Dacrymyces succineus Sprée.
Calloria succinea Fr. summ. p. 359?
Fungus aliquantulum dubius; descriptione tamen Calloriæ a cl. Friesio l. l. datae extra satis bene conveniunt specimina nostra, intus vero Dacrymycis structuram exhibent. E basi nigricante assurgunt filamenta tenuissima, ramellosa, articulata, quae abeunt superne in corpuscula cylindrica recta vel leviter curva, facile delabentia, circ. 0,012—0,016 mm. longa.
Ad acus Pini sylv. dejectos putrescentes, Boekhorst pr. Lochem, vere legit. Dr. Th. Sprée.

Fig. 115

Stemphylium sphaeropodium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 689, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 689 (fig. 116).

Rabenhorst, Fungi europaei.
689. Stemphylium sphaeropodium
Bonord. (nov. sp.)
Epiphyllum, hyphis curtis continuis nigris, apice subacutatis, demum impressis, basi cellula globosa suffultis, sporis trilocularibus pyriformibus, caespitibus late effusis depressis.
Hab. in foliis Arundinis, leg. Dr. Bonorden.

Fig. 116

Fusicladium macrosporium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 690b, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ *Monotospora ovata* Sacc., Syll. fung. (Abellini) **4**: 299, 1886, nom. illeg. (Art. 52.1).

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 690b (fig. 117).

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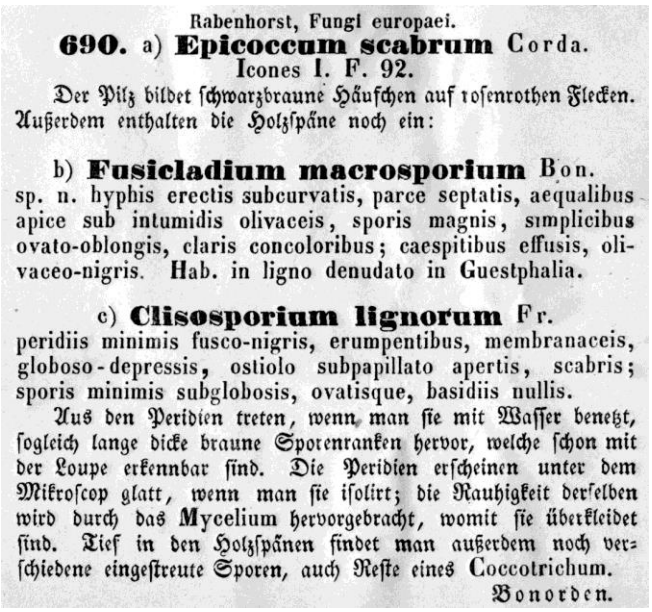
Rabenhorst, Fungi europaei.
690. a) **Epicoccum scabrum** Corda.
Icones I. F. 92.
Der Pilz bildet schwarzbraune Häufchen auf rosenrothen Flecken. Außerdem enthalten die Holzspäne noch ein:

b) **Fusicladium macrosporium** Bon.
sp. n. hyphis erectis subcurvatis, parce septatis, aequalibus apice sub intumidis olivaceis, sporis magnis, simplicibus ovato-oblongis, claris concoloribus; caespitibus effusis, olivaceo-nigris. Hab. in ligno denudato in Guestphalia.

c) **Clisosporium lignorum** Fr.
peridiis minimis fusco-nigris, erumpentibus, membranaceis, globoso-depressis, ostiolo subpapillato apertis, scabris; sporis minimis subglobosis, ovatisque, basidiis nullis.
Aus den Peridien treten, wenn man sie mit Wasser benetzt, sogleich lange dicke braune Sporenranken hervor, welche schon mit der Loupe erkennbar sind. Die Peridien erscheinen unter dem Mikroscop glatt, wenn man sie isolirt; die Rauhigkeit derselben wird durch das Mycelium hervorgebracht, womit sie überkleidet sind. Tief in den Holzspänen findet man außerdem noch verschiedene eingestreute Sporen, auch Reste eines Coccotrichum.
Bonorden.

Fig. 117

Puccinia typhae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 695, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 75, 1864].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 695 (fig. 118).

Rabenhorst, Fungi europaei.
695. Puccinia Typhae Kalchbr.
Sporidiis diseptatis, loculo supremo globoso, saturate fusco, medio obconico truncato dilutiori, infimo in pedicellum longum attenuato, subhyalino, pulvinulis umbrinis, epidermidem rumpentibus, sparsis vel dense gregariis ut plurimum macula tabacina cinctis.
In scapis (non vero foliis) Typhae latifoliae, ad Olaszinum Scepusii. Hieme.
Anmerkung. Nach der Analogie der übrigen Puccinien ist es höchst wahrscheinlich, daß auch diese sich an den noch lebenden Schäften des Rohrkolbens entwickelt; ich konnte sie aber in diesem Stadium nicht beobachten, da ihr Standort — ein tiefer Sumpf — nur mittelst des Eises zugänglich wird.
C. Kalchbrenner.

Fig. 118

Urocystis pompholygodes (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 697, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 75, 1864], nom. inval. (Art. 35.1).
≡ *Caeoma pompholygodes* Schltdl., Linnaea 1: 248 (1826).
≡ *Urocystis pompholygodes* (Schltdl.) A.A. Fisch. Waldh., Byull. Mosk. Obshch. Ispyt. Prir. **40**: 257, 1867.
= ***Urocystis anemones*** (Pers.) G. Winter, Hedwigia **19**: 160, 1880.
Notes: This is an invalid combination published on the label of Fungi Eur. Exs. 697 (fig. 119).

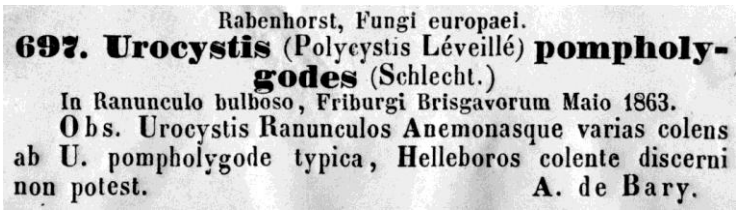
Rabenhorst, Fungi europaei.
697. Urocystis (Polycystis Léveillé) **pompholygodes** (Schlecht.)
In Ranunculo bulboso, Friburgi Brisgavorum Maio 1863.
Obs. Urocystis Ranunculos Anemonasque varias colens ab U. pompholygode typica, Helleboros colente discerni non potest.
A. de Bary.

Fig. 119

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Tilletia caries var. *agrostidis* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 700, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 75, 1864].
≡ *Erysibe sphaerococca* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 213, 1833.
≡ *Uredo sphaerococca* (Wallr.) Rabenh., Deutschl. Krypt-Fl. **1** (Pilze): 4, 1844.
≡ ***Tilletia sphaerococca*** (Wallr.) A.A. Fisch. Waldh., Byull. Mosk. Obshch. Ispyt. Prir. **40**: 255, 1867.
Notes: This is a validly published new variety name, based on *Erysibe sphaerococca*. This variety was introduced with a reference to the latter name as basionym, see Rabenh., Fungi Eur. Exs. 700 (fig. 120). Fischer von Waldheim (l.c.) introduced the name *Tilletia sphaerococca* as "(Rabenh.)" (this is a reference to *Uredo sphaerococca* (Wallr.) Rabenh. and thus an indirect reference to *Erysibe sphaerococca* Wallr. as basionym.

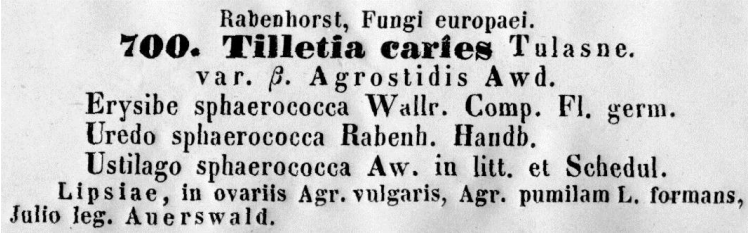
Rabenhorst, Fungi europaei.
700. Tilletia caries Tulasne.
var. β. Agrostidis Awd.
Erysibe sphaerococca Wallr. Comp. Fl. germ.
Uredo sphaerococca Rabenh. Handb.
Ustilago sphaerococca Aw. in litt. et Schedul.
Lipsiae, in ovariis Agr. vulgaris, Agr. pumilam L. formans, Julio leg. Auerswald.

Fig. 120

Cent. 8

Polyporus osseus Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 706, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865; Mathem. Természettud. Közlem. **3**: 217, 1865].
= ***Osteina obducta*** (Berk.) Donk, Schweiz. Z. Pilzk. **44**: 86, 1966.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 706 (fig. 121).

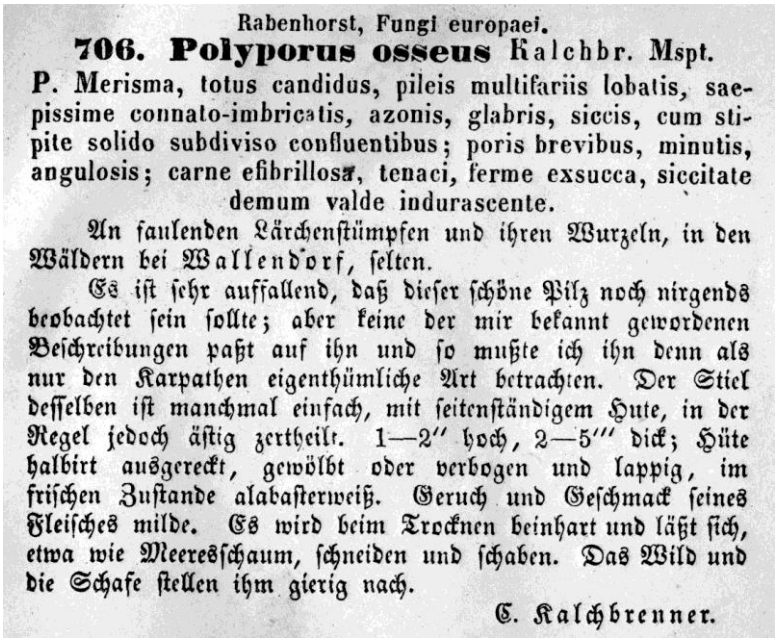
Rabenhorst, Fungi europaei.
706. Polyporus osseus Kalchbr. Mspt.
P. Merisma, totus candidus, pileis multifariis lobatis, saepissime connato-imbricatis, azonis, glabris, siccis, cum stipite solido subdiviso confluentibus; poris brevibus, minutis, angulosis; carne efibrillosa, tenaci, ferme exsucca, siccitate demum valde indurascente.
An faulenden Lärchenstümpfen und ihren Wurzeln, in den Wäldern bei Wallendorf, selten.
Es ist sehr auffallend, daß dieser schöne Pilz noch nirgends beobachtet sein sollte; aber keine der mir bekannt gewordenen Beschreibungen paßt auf ihn und so mußte ich ihn denn als nur den Karpathen eigenthümliche Art betrachten. Der Stiel desselben ist manchmal einfach, mit seitenständigem Hute, in der Regel jedoch ästig zertheilt. 1—2″ hoch, 2—5‴ dick; Hüte halbirt ausgereckt, gewölbt oder verbogen und lappig, im frischen Zustande alabasterweiß. Geruch und Geschmack seines Fleisches milde. Es wird beim Trocknen beinhart und läßt sich, etwa wie Meeresschaum, schneiden und schaben. Das Wild und die Schafe stellen ihm gierig nach.
C. Kalchbrenner.

Fig. 121

Pyronema marianum var. *ochraceum* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 708, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865].
Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 708 (fig. 122).

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Rabenhorst, Fungi europaei.
708. Pyronema Marianum Carus.
β. ochraceum Kalchbr.
An einem verkohlten Ameisenhaufen im tiefsten Waldesschatten bei Wallendorf (Centralcarpathen) Sept. 1861.
Färbung aus dem Fleischröthlichen in's Ockergelbe. Das gewöhnliche Pyronema kommt hier häufig genug an sonnigen Stellen, auf alten Kohlenstätten vor, wo es immer carminroth erscheint. Der ungewöhnliche Standort mag die abweichende Färbung der mitgetheilten Exemplare hervorgerufen haben.
Kalchbrenner.

Fig. 122

Boletus fusipes Heufl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 712, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 142, 1865].
= ***Suillus placidus*** (Bonord.) Singer, Farlowia **2**(1): 42, 1945.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 712 (fig. 123).

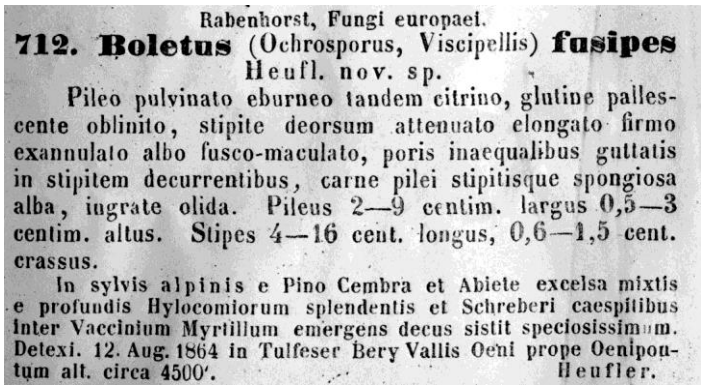
Rabenhorst, Fungi europaei.
712. Boletus (Ochrosporus, Viscipellis) **fusipes** Heufl. nov. sp.
Pileo pulvinato eburneo tandem citrino, glutine pallescente oblinito, stipite deorsum attenuato elongato firmo exannulato albo fusco-maculato, poris inaequalibus guttatis in stipitem decurrentibus, carne pilei stipitisque spongiosa alba, ingrate olida. Pileus 2—9 centim. largus 0,5—3 centim. altus. Stipes 4—16 cent. longus, 0,6—1,5 cent. crassus.
In sylvis alpinis e Pino Cembra et Abiete excelsa mixtis e profundis Hylocomiorum splendentis et Schreberi caespitibus inter Vaccinium Myrtillum emergens decus sistit speciosissimum. Detexi. 12. Aug. 1864 in Tulfeser Bery Vallis Oeni prope Oenipontum alt. circa 4500'. Heufler.

Fig. 123

Helotium rubi (Lib.) Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 717, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 143, 1865].
≡ *Patellaria rubi* Lib., Pl. crypt. Arduenna, fasc. (Liège) **3**(nos 201-300): no. 231, 1834.
≡ ***Pezicula rubi*** (Lib.) Niessl, in Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 22: no. 2122, 1876.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 717 (fig. 124).

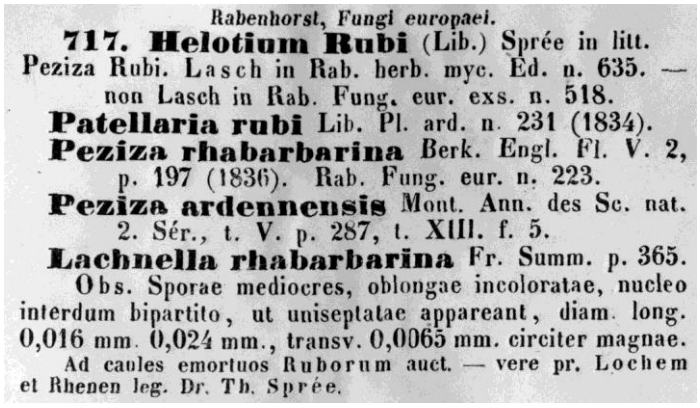
Rabenhorst, Fungi europaei.
717. Helotium Rubi (Lib.) Sprée in litt.
Peziza Rubi. Lasch in Rab. herb. myc. Ed. n. 635. — non Lasch in Rab. Fung. eur. exs. n. 518.
Patellaria rubi Lib. Pl. ard. n. 231 (1834).
Peziza rhabarbarina Berk. Engl. Fl. V. 2, p. 197 (1836). Rab. Fung. eur. n. 223.
Peziza ardennensis Mont. Ann. des Sc. nat. 2. Sér., t. V. p. 287, t. XIII. f. 5.
Lachnella rhabarbarina Fr. Summ. p. 365.
Obs. Sporae mediocres, oblongae incoloratae, nucleo interdum bipartito, ut uniseptatae appareant, diam. long. 0,016 mm. 0,024 mm., transv. 0,0065 mm. circiter magnae.
Ad caules emortuos Ruborum auct. — vere pr. Lochem et Rhenen leg. Dr. Th. Sprée.

Fig. 124

Wuestneia monadelpha (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 734, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 143, 1865].

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≡ *Sphaeria monadelpha* Fr., Syst. mycol. (Lundae) **2**(2): 382, 1823.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 734 (fig. 125).

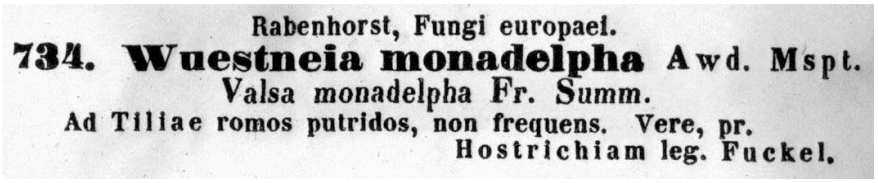
Rabenhorst, Fungi europaei.
734. Wuestneia monadelpha Awd. Mspt.
Valsa monadelpha Fr. Summ.
Ad Tiliae romos putridos, non frequens. Vere, pr.
Hostrichiam leg. Fuckel.

Fig. 125

Wuestneia sphinctrina (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 735, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 143, 1865].
≡ *Sphaeria sphinctrina* Fr., in Kunze & Schmidt, Mykologische Hefte (Leipzig) **2**: 48, 1823 [: Fr., Syst. mycol. (Lundae) **2**(2): 400, 1823].
≡ *Valsa sphinctrina* (Fr.) Fr., Summa veg. Scand., Sect. Post. (Stockholm): 412, 1849.
≡ *Lopadostoma sphinctrinum* (Fr.) P.M.D. Martin, J. S. Afr. Bot. **35**: 400, 1969.
= *Sphaeria dryophila* Curr., Trans. Linn. Soc. London **22**: 269, 1859, nom. illeg. (Art. 53.1), non Schwein., 1832.
≡ *Anthostoma dryophilum* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) **1**: 308, 1882.
≡ *Diatrype dryophila* (Sacc.) Sacc., Syll. fung. (Abellini) **1**: 308, 1882.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 735 (fig. 126). The valid name *Sphaeria sphinctrina* Fr. has priority for the species concerned. This is a sanctioned name and therefore not illegitimate as homonym of *Sphaeria sphinctrina* Sowerby, 1803.

Rabenhorst, Fungi europaei.
735. Wuestneia sphinctrina Awd. Mspt.
Valsa sphinctrina Fr. Summ.
Ad Fagi ramulos putridos, autumno, rara. In sylva Hostrichiensi leg. Fuckel.

Fig. 126

Sphaeria juncina Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 748, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 154, 1865].
≡ ***Phaeosphaeria juncina*** (Auersw.) L. Holm, Symb. Bot. Upsal. **14**(3): 127, 1957.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 748 (fig. 127).

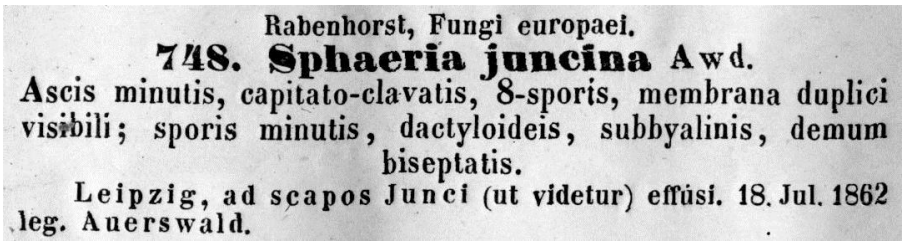
Rabenhorst, Fungi europaei.
748. Sphaeria juncina Awd.
Ascis minutis, capitato-clavatis, 8-sporis, membrana duplici visibili; sporis minutis, dactyloideis, subbyalinis, demum biseptatis.
Leipzig, ad scapos Junci (ut videtur) effusi. 18. Jul. 1862 leg. Auerswald.

Fig. 127

Rosellinia thelena (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 757, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 154, 1865].
≡ *Sphaeria thelena* Fr., in Kunze & Schmidt, Mykologische Hefte **2**: 36, 1823 [: Fr., Syst. mycol. **2**(2): 441, 1823].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 757 (fig. 128).

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Rabenhorst, Fungi europaei.
757. **Rosellinia thelena** (Fr.) Awd. Mspt.
Sphaeria thelena Fr. Syst. II. p. 441. Scl. Suec. N. 49! Curr. Sphaer. simpl. N. 222! (minime Desmaz. Pl. cr. de Fr. N. 271, quae Rosellinia aquila De Not.); Rosellinia andurnensis Ces. sec. De Not. Sfer. ital. N. 17!
Asci auguste tubulosi, membrana duplici non visibili, octospori; sporae uniseriales, fuscae, impellucidae, oblique oblongae, utrinque acutiusculae, hyaline mucronatae.
In truncis vetustis prope Salem legit Jack.

Fig. 128

Cucurbitaria rabenhorstii Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 758, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 155, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 758 (fig. 129).

Rabenhorst, Fungi europaei.
758. **Cucurbitaria Rabenhorstii** Awd. Mspt. et in litt.
Peritheciis gregariis, initio summa corticis pellicula obtectis, mox denudatis, superficialibus aterrimis, primum globosis, mox (more Nectriae Pezizae) collapsis, ostiolo minuto papillaeformi; paraphysibus filiformibus subconglutinatis; ascis anguste tubulosis, 8-sporis; sporis uniseriatis, pellucide fuscis, oblongis, triseptatis, loculis utrinque ultimis dilutioribus, subhyalinis, loculis mediis majoribus hic illic longitudinaliter septatis.
Facie externa, excepto colore, Nectriam Pezizam exacte referens, forma vero sporarum cum Sphaeria pulvis pyrius omnino quadrat.
Ad cortices prope Turicum leg. Dr. Hepp.

Fig. 129

Pleospora herbarum f. *lychnidearum* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 768, 1865 [Bot. Zeitung **23**: 251, 1865].
Notes: This is a validly published forma with a description on the label of Fungi Eur. Exs. 768 (fig. 130).

Rabenhorst, Fungi europaei.
768. **Pleospora herbarum** Rabenh.
Forma: Lychnidearum, peritheciis elliptico-innatis, applanatis, nigris, ostiolo papillato, sporis maturis $\frac{1}{66}'''$ = 0,00133″ longis.
In caulibus emortuis Lychn. Viscariae ad Dresdam legi ipse.

Fig. 130

Septonema concentricum Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 777, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 155, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 777 (fig. 131).

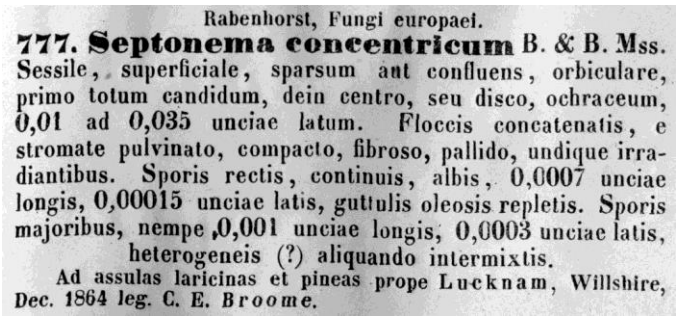
Rabenhorst, Fungi europaei.
777. **Septonema concentricum** B. & B. Mss.
Sessile, superficiale, sparsum aut confluens, orbiculare, primo totum candidum, dein centro, seu disco, ochraceum, 0,01 ad 0,035 unciae latum. Floccis concatenatis, e stromate pulvinato, compacto, fibroso, pallido, undique irradiantibus. Sporis rectis, continuis, albis, 0,0007 unciae longis, 0,00015 unciae latis, guttulis oleosis repletis. Sporis majoribus, nempe 0,001 unciae longis, 0,0003 unciae latis, heterogeneis (?) aliquando intermixtis.
Ad assulas laricinas et pineas prope Lucknam, Willshire, Dec. 1864 leg. C. E. Broome.

Fig. 131

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Ascobolus depauperatus Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 780, 1865 [Bot. Zeitung **23**: 252, 1865; Hedwigia **4**: 156, 1865; Ann. Mag. Nat. Hist., Ser. 3, **15**: 448, 1865].
≡ ***Saccobolus depauperatus*** (Berk. & Broome) E.C. Hansen, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn **59**: 293 [1876] 1877.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 780 (fig. 132).

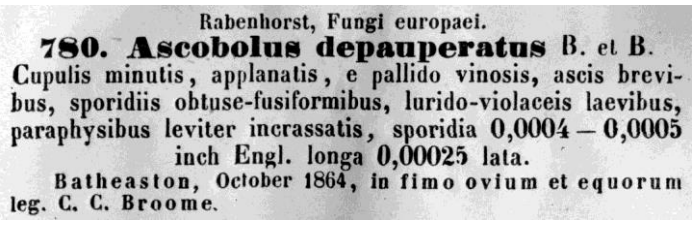
Rabenhorst, Fungi europaei.
780. Ascobolus depauperatus B. et B.
Cupulis minutis, applanatis, e pallido vinosis, ascis brevibus, sporidiis obtuse-fusiformibus, lurido-violaceis laevibus, paraphysibus leviter incrassatis, sporidia 0,0004 – 0,0005 inch Engl. longa 0,00025 lata.
Batheaston, October 1864, in fimo ovium et equorum leg. C. C. Broome.

Fig. 132

Oidium succisae Karl, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 791, 1865 [Bot. Zeitung **23**: 252, 1865], nom. nud.
= ***Podosphaera dipsacacearum*** (Tul. & C. Tul.) U. Braun & S. Takam. [as "*dipsacearum*"], Schlechtendalia **4**: 28, 2000.
Notes: The duplicate deposited at HAL has been re-examined and turned out to be *Podosphaera dipsacacearum* (conidia in chains with crenate outline).

Cent. 9

Valsa megas Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 815, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].
Notes: This is a validly published species with a brief diagnosis on the label of Fungi Eur. Exs. 815 (fig. 133), comparing *V. megas* with *V. turgida* (Pers.) Fr.

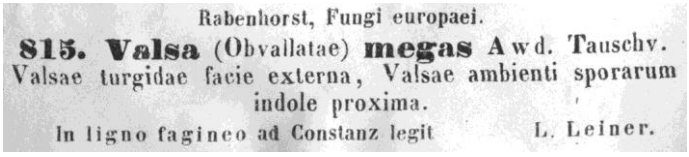
Rabenhorst, Fungi europaei.
815. Valsa (Obvallatae) **megas** Awd. Tauschv.
Valsae turgidae facie externa, Valsae ambienti sporarum indole proxima.
In ligno fagineo ad Constanz legit L. Leiner.

Fig. 133

Mamiania ciliata (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 816, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].
≡ *Sphaeria ciliata* Pers., Observ. mycol. (Lipsiae) **2**: 67 [1799] 1800.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 816 (fig. 134).

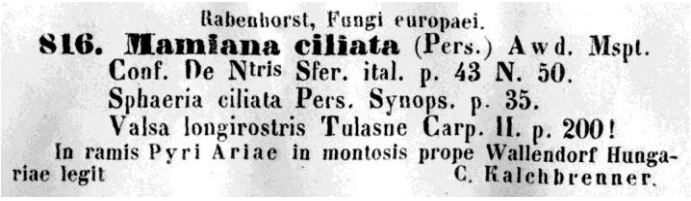
Rabenhorst, Fungi europaei.
816. Mamiana ciliata (Pers.) Awd. Mspt.
Conf. De Ntris Sfer. ital. p. 43 N. 50.
Sphaeria ciliata Pers. Synops. p. 35.
Valsa longirostris Tulasne Carp. II. p. 200!
In ramis Pyri Ariae in montosis prope Wallendorf Hungariae legit C. Kalchbrenner.

Fig. 134

Valsaria taleola (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 821, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].
≡ *Sphaeria taleola* Fr., Syst. mycol. (Lundae) **2**(2): 391, 1823.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 821 (fig. 135).

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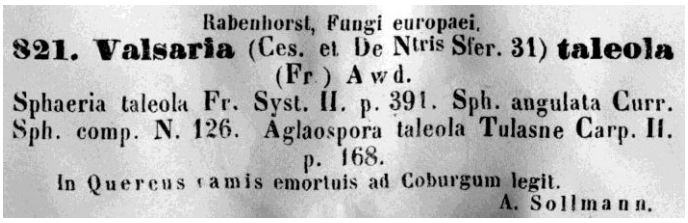
Rabenhorst, Fungi europaei.
821. Valsaria (Ces. et De Ntris Sfer. 31) **taleola** (Fr.) Awd.
Sphaeria taleola Fr. Syst. II. p. 391. Sph. angulata Curr. Sph. comp. N. 126. Aglaospora taleola Tulasne Carp. II. p. 168.
In Quercus ramis emortuis ad Coburgum legit.
A. Sollmann.

Fig. 135

Rhaphidospora oenotherae Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 823, 1865 [Bot. Zeitung **23**: 288, 1865], nom. nud.

≡ *Rhaphidospora oenotherae* Auersw., in Zopf & Sydow, Mycoth. March., Cent. 1: no. 79, 1880.

Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 823, see fig. 136) introduced this name without any description, but with a reference to "*Sphaerolina xantholeuca* (Kunze) Fuckel, Jahrb. Nassauischen Vereins Naturk. **15**: 77, 1860" (excl. syn.). However, this cannot be seen as reference to a previous description since Fuckel (l.c.) does not contain any description.

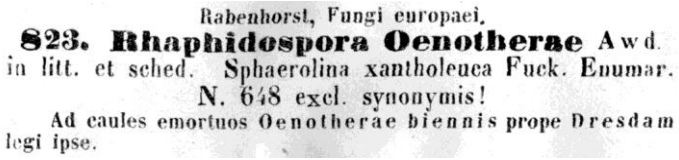
Rabenhorst, Fungi europaei.
823. Rhaphidospora Oenotherae Awd. in litt. et sched. Sphaerolina xantholeuca Fuck. Enumar. N. 648 excl. synonymis!
Ad caules emortuos Oenotherae biennis prope Dresdam legi ipse.

Fig. 136

Sphaerella suspecta Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 833, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 833 (fig. 137).

Rabenhorst, Fungi europaei.
833. Sphaerella (Sphaeria) **suspecta** Awd. bot. Tauschv. 1863!
Sph. oleipara Sollm. in Hedwigia 1865 N. 5 p. 65.
Peritheciis sparsa, globosis, nigris, in parenchymate folii nidulantibus, epidermidemque ostiolo apiculato perforantibus; ascis ventricoso-oblongis, sessilibus, tenerrimis, i. e. membrana duplici non visibili, 8-sporis; sporis oblique lanceolatis, subhyalinis, $\frac{1}{76}$ mm. longis, diblastis, sepimento spurio ante apicem posito. Sphaerellae (Sphaeriae) erralundae (Desmaz.) proxima. Auerswald.
In foliis Quercus dejectis ad Coburgum legit A. Sollmann.

Fig. 137

Capnodium corni Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 835, 1865 [Bot. Zeitung **23**: 288, 1865].

Notes: This is a validly published species with a diagnosis on the label of Fungi Eur. Exs. 835 (fig. 138).

Rabenhorst, Fungi europaei.
835. Capnodium Corni Awd. Mspt.
Sporae plus duplo majores quam C. salicini Mont., quod cf. in Rabenh. Fungi europ. N. 68.
Leipzig, in foliis vivis Corni sanguineae legit Auerswald.

Fig. 138

Asteroma hyperici Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 836, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].

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Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 836 (fig. 139).

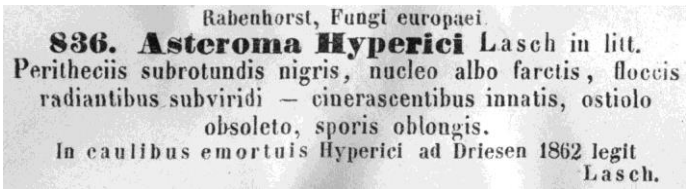
Rabenhorst, Fungi europaei.
836. Asteroma Hyperici Lasch in litt.
Peritheciis subrotundis nigris, nucleo albo farctis, floccis radiantibus subviridi — cinerascentibus innatis, ostiolo obsoleto, sporis oblongis.
In caulibus emortuis Hyperici ad Driesen 1862 legit Lasch.

Fig. 139

Sphaerella cinerascens Rabenh. (as "(Fuckel) Rabenh."), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 845, 1865 [Bot. Zeitung **23**: 288, 1865].
≡ *Sphaeria cinerascens* Fuckel, Fungi Rhen. Exs., Fasc. 9: no. 824, 1863, nom. illeg. (Art. 53.1), non Schwein., 1832.
= ***Venturia inaequalis*** (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. **3**: no. 261, 1875.
Notes: This is a new name based on *Sphaeria cinerascens* Fuckel, 1863, non Schwein., 1832 (fig. 140).

Rabenhorst, Fungi europaei.
845. Sphaerella cinerascens Fukl. Fung. Rhenan N. 824.
Paraphysibus nullis, ascis tubulosis octosporis, sporis uniseriatis, pulchre chlorinis, uniseptatis, $\frac{1}{76}$ mm longis. a Sphaerella ditricha Fr., et Sphaerella chlorospora Cesati vix diversa.
In foliis Sorbi areae legit Arnstadiae (Thuringiae) Majo 1865. Dr. Fleischhack.

Fig. 140

Peronospora filicum Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 848, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.
Notes: This species was published without any description. A downy mildew is not present in the original material, but the rust *Hyalopsora aspidiotus* (Peck) Magnus has been found (see Constantinescu 1991).

Septoria badhami var. *fraxini* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 852, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.
≡ *Septoria badhami* var. *fraxini* Auersw. ex Sacc., Syll. fung. **3**: 495, 1884.
= *Septoria fraxini* Desm., Pl. Crypt. Nord France, Edn 1, 1: no. 1086, 1840, nom. illeg. (Art. 53.1), non (DC.) Fr., 1829.
Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 852, see fig. 141) failed to give a diagnosis or description for var. *fraxini*, and there is no reference to the name *Septoria fraxini* Desm., which was later added as synonym by Saccardo (1884: 495).

Rabenhorst, Fungi europaei.
852. Septoria Badhami Berk. et Br. Notis. of Brit. Fung. in Ann. aud. Mag. 1854. N. 748.
var. β. Fraxini Awd.
Arnstadt in Thuringia, in foliis Fraxini, Julio 1864 leg. Auerswald et Fleischhack.
Conf. Sept. Fraxini Fr. elench. II. p. 119. N. 3.

Fig. 141

Septoria euphorbiae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 854, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 854 (fig. 142).

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Rabenhorst, Fungi europaei.
854. Septoria Euphorbiae Kalchbr.
Sporidiis tenuissimis, flexuosis, granulosis!
In foliis Euphorbiae sylvaticae, autumno legit
C. Kalchbrenner.

Fig. 142

Libertella punicea Hoffm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 861, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 158, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 861 (fig. 143).

Rabenhorst, Fungi europaei.
861. Libertella punicea (Hoffm.).
Forma quaedam spermogonifera, ab affinibus colore puniceo et spermatiis minutissimis sat diversa!
Giessen, in quercibus americanis horti botanici legit
H. Hoffmann.

Fig. 143

Lamyella nigra Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 868, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 868 (fig. 144).

Rabenhorst, Fungi europaei.
868. Lamyella Fries. S. v. S. p. 410.
Ch. gen. emend.: Conceptaculum parvum erumpens globulare, subgelatinosum, loculosum; loculamentis intus hyphis virgato-ramosis vestitis; sporis subtilissimis, apicibus ramulorum innatis, ex ostiolis minutissimis globuli gelatinosi instar prorumpentibus; mycelio intra corticem repente.
Lamyella nigra Bonord.
Syn. Sphaeria sphaerocephala? Fr. Syst. II. p. 497.
Conceptaculis nigris rotundatis, intus hyalinis griseis epidermide cinctis; loculamentis difformibus numerosis; ostiolis minutissimis globosis; sporis minimis hyalinis oblongo-cylindricis.
Hab. in ramis junioribus Mori albae et nigrae in Guestphalia C. Bonorden.
Anmerk. Das Conceptaculum besteht aus kleinen eckigen Zellen, enthält keine besonderen Perithecien, sondern nur Loculamente, welche mit ruthenförmigen, kurzen, sehr feinen Hyphen ausgekleidet sind.

Fig. 144

Helminthosporium salisburiae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 875, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 875 (fig. 145).

Rabenhorst, Fungi europaei.
875. Helminthosporium Salisburiae
Rabenh. Mspt.
Hyphae torulosae, diam. $\frac{1}{217}$ — $\frac{1}{185}$ mm. = $\frac{1}{491}$ — $\frac{1}{419}$''', modo regulariter articulatis (articulis diam. 2—3 plo longioribus), modo irregulariter articulatis (articulis diam. ad 30 plo longioribus), luteo-fuscis, in caespites minutos olivaceo-atros aggregatis, sporis initio ovoideis hyalinis biguttatis, postea majoribus, bi-triseptatis, fuscescentibus.
In Salisburia adiantifolia in horto arcis prope Salem legit Jack.

Fig. 145

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Phyllosticta coluteae Fiedler, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 877, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865], nom. nud.
Notes: This name was introduced as spermatial morph of "*Sphaeria coluteae* Rabenh." but without any description or diagnosis (fig. 146). Spermogonia and immature mycosphaerella-like ascomata are present in the original material (see van der Aa & Vanev 2002: 156).

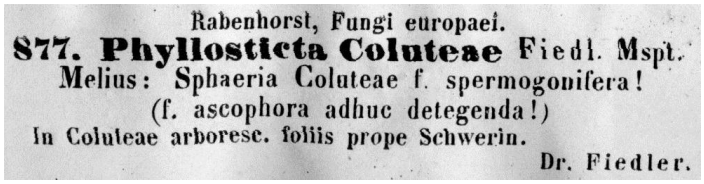
Rabenhorst, Fungi europaei.
877. Phyllosticta Coluteae Fiedl. Mspt.
Melius: Sphaeria Coluteae f. spermogonifera!
(f. ascophora adhuc detegenda!)
In Coluteae arboresc. foliis prope Schwerin.
Dr. Fiedler.

Fig. 146

Cent. 10

Notes: Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10, 1866 is lacking at HAL. Therefore, copies of the labels concerned have been prepared on the basis of duplicates deposited in the herbaria in Berlin (B) and München (M).

Peziza delitschiana Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 912, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].
≡ ***Coronellaria delitschiana*** (Auersw.) P. Karst., Not. Sällsk. Fauna Fl. Fenn. Förh. **11**: 248, [1871] 1870.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 912 (fig. 147).

Rabenhorst, Fungi europaei.
912. Peziza Delitschiana Awd. Mspt.
Ungestielt, verkehrt kegelförmig, 0,1—0,25 Millim. breit, wachsartig, trocken, behaart, mit lang gewimpertem oder unregelmäßig zerschlitztem Rande, weiß oder weißgelblich; Schläuche elliptisch-länglich, verschieden gestaltet, 8sporig, Sporen elliptisch-walzlich, mit 3—4 unregelmäßig gestellten Oeltropfen.
Auf vorjährigen Stengeln von Scirpus lacustris, heerdenweise oder vereinzelt. Sehr leicht abfällig.

Fig. 147

Peziza carestiana Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 913, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].
≡ ***Unguicularia carestiana*** (Rabenh.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **118**: 391, 1909.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 913 (fig. 148).

Rabenhorst, Fungi europaei.
913. Peziza Carestiana Rabenh. Mspt.
P. e minimis, initio cylindraceo-clavata, aetate provecta e basi stipitiformi ampliata, plus minus cupuliformis, luteola, pilis elongatis achrois flexuoso-curvatis dense vestita; ascis cylindrico-subclavatis, octosporis, sporis minutis ellipticis, utroque polo obtusis, guttulis paucis repletis.
A Peziza versicolor et Filicum Desmaz. longe distat!
Riva, 1862 in Asplenio Filix femina leg. Abb. Carestia.

Fig. 148

Sporormia fleischhakii Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 921, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

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≡ *Gnomonia fleischhakii* (Auersw.) Auersw., in Gonnermann & Rabenhorst, Myc. Europ. Pyren. **5-6**: 26, 1869.
≡ ***Preussia fleischhakii*** (Auersw.) Cain, Canad. J. Bot. **39**: 1640, 1961.
≡ *Diaporthe fleischhakii* (Auersw.) M. Monod, Beih. Sydowia **9**: 219, 1983.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 921 (fig. 149).

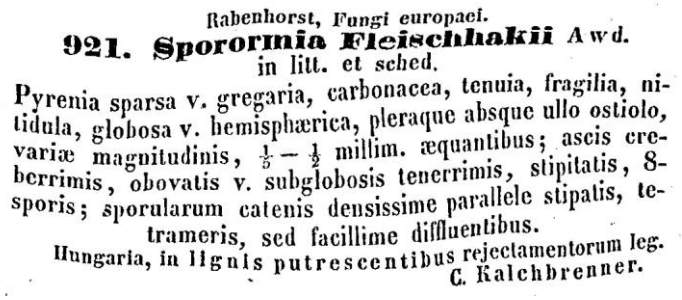
Rabenhorst, Fungi europaei.
921. Sporormia Fleischhakii Awd.
in litt. et sched.
Pyrenia sparsa v. gregaria, carbonacea, tenuia, fragilia, nitidula, globosa v. hemisphærica, pleraque absque ullo ostiolo, variæ magnitudinis, $\frac{1}{5}$ – $\frac{1}{2}$ millim. æquantibus; ascis crebberrimis, obovatis v. subglobosis tenerrimis, stipitatis, 8-sporis; sporularum catenis densissime parallele stipatis, tetrameris, sed facillime diffluentibus.
Hungaria, in lignis putrescentibus rejectamentorum leg.
C. Kalchbrenner.

Fig. 149

Nectria rosellinii Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 923, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 190, 1866].
≡ ***Thyronectria rosellinii*** (Carestia) Jaklitsch & Voglmayr, Persoonia **33**: 204, 2014.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 923 (fig. 150).

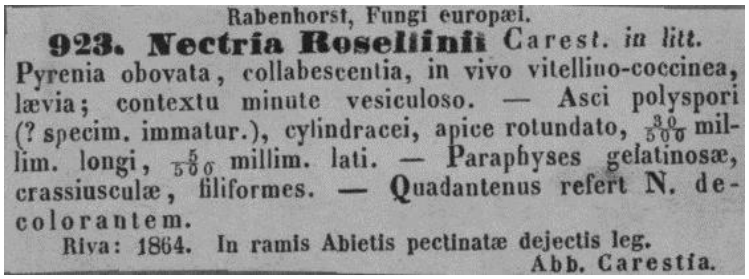
Rabenhorst, Fungi europæi.
923. Nectria Rosellinii Carest. in litt.
Pyrenia obovata, collabescentia, in vivo vitellino-coccinea, lævia; contextu minute vesiculoso. — Asci polyspori (? specim. immatur.), cylindracei, apice rotundato, $\frac{30}{500}$ millim. longi, $\frac{5}{500}$ millim. lati. — Paraphyses gelatinosæ, crassiusculæ, filiformes. — Quadantenus refert N. decolorantem.
Riva: 1864. In ramis Abietis pectinatæ dejectis leg.
Abb. Carestia.

Fig. 150

Rosellinia obliquata (Sommerf.) Rabenh., Bot. Zeitung **24**: 299, 1866.
≡ *Sphaeria obliquata* Sommerf., Suppl. Fl. lapp. (Oslo): 213, 1826.
Notes: This is a valid combination published by Rabenhorst in Bot. Zeitung **24**: 299, 1866, with reference to Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 926, 1866. However, no. 926 occurs twice in Hedwigia on page 299, but in the exsiccata, no. 926 contains *Pleosporopsis strobilorum* (fig. 151). Therefore, the combination *Rosellinia obliquata* was first published in Rabenhorst's publication in Botanische Zeitung, 1866.

Rabenhorst, Fungi europaei.
926. Pleosporopsis strobilorum Oerst.
Bidrag til Svampenes Udviklingshist. in Naturh. Foren. Vidensk. Meddelelser 1865 p. 28 Tab. V. et VI.
In squamis strobilorum Pini montanae ad Hafniam leg.
A. S. Oersted.

Fig. 151

Gnomonia fimbriata (Pers.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 928, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 190, 1866].
≡ *Sphaeria fimbriata* Pers., Observ. mycol. (Lipsiae) **1**: 70, 1796 [: Fr., Syst. mycol. **2**(2): 436, 1823].
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 928 (fig. 152).

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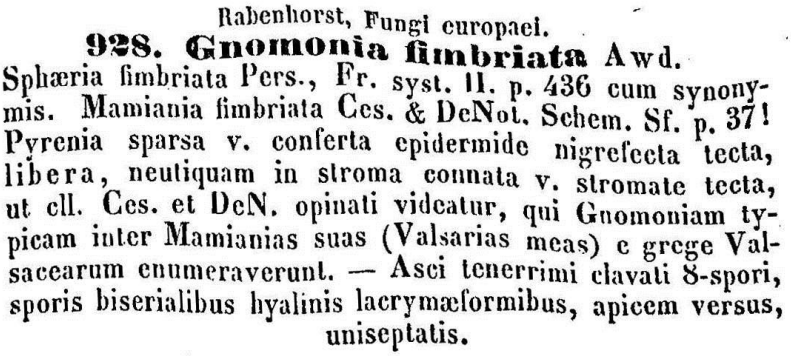
Rabenhorst, Fungi europaei.
928. Gnomonia fimbriata Awd.
Sphæria fimbriata Pers., Fr. syst. II. p. 436 cum synonymis. Mamiania fimbriata Ces. & DeNot. Schem. Sf. p. 37! Pyrenia sparsa v. conferta epidermide nigrefecta tecta, libera, neutiquam in stroma connata v. stromate tecta, ut cll. Ces. et DeN. opinati videatur, qui Gnomoniam typicam inter Mamianias suas (Valsarias meas) e grege Valsacearum enumeraverunt. — Asci tenerrimi clavati 8-spori, sporis biserialibus hyalinis lacrymæformibus, apicem versus, uniseptatis.

Fig. 152

Valsaria bitorulosa (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 932, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 190, 1866].

≡ *Valsa bitorulosa* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 3, **3**: 367, 1859.

= ***Melanconis chrysostroma*** (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 125, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 932 (fig. 153).

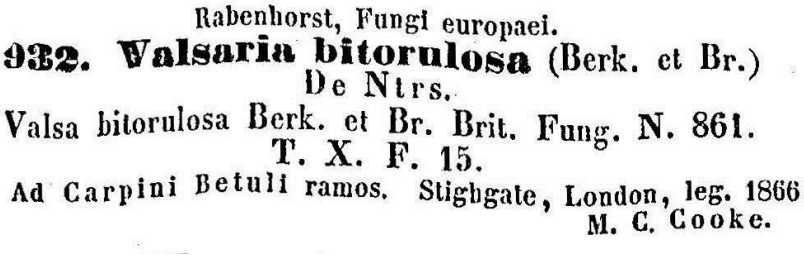
Rabenhorst, Fungi europaei.
932. Valsaria bitorulosa (Berk. et Br.)
De Ntrs.
Valsa bitorulosa Berk. et Br. Brit. Fung. N. 861.
T. X. F. 15.
Ad Carpini Betuli ramos. Stighgate, London, leg. 1866
M. C. Cooke.

Fig. 153

Valsaria stilbostoma (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 933, 1866 [Bot. Zeitung **24**: 299, 1866].

≡ *Sphaeria stilbostoma* Fr., K. Svenska Vetensk-Akad. Handl., Ser. 3, **39**: 102, 1818 [: Fr., Syst. mycol. **2**(2): 403, 1823].

≡ ***Melanconis stilbostoma*** (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 115, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 933 (fig. 154).

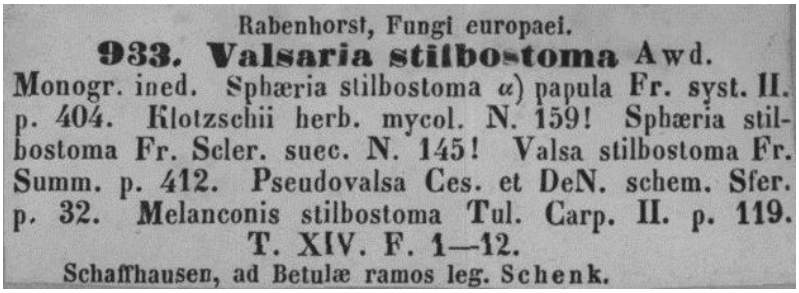
Rabenhorst, Fungi europaei.
933. Valsaria stilbostoma Awd.
Monogr. ined. Sphæria stilbostoma α) papula Fr. syst. II. p. 404. Klotzschii herb. mycol. N. 159! Sphæria stilbostoma Fr. Scler. suec. N. 145! Valsa stilbostoma Fr. Summ. p. 412. Pseudovalsa Ces. et DeN. schem. Sfer. p. 32. Melanconis stilbostoma Tul. Carp. II. p. 119.
T. XIV. F. 1—12.
Schaffhausen, ad Betulæ ramos leg. Schenk.

Fig. 154

Ptilidium fuliginosum (Pers. : Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 938, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria fuliginosa* Pers., Observ. mycol. (Lipsiae) **2**: 68, 1800 [: Fr., Syst. mycol. **2**(2): 423, 1823].

≡ *Tympanis fuliginosa* (Pers.) Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 429, 1833.

≡ ***Godronia fuliginosa*** (Pers.) Seaver, Mycologia **37**(3): 344, 1945.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 938 (fig. 155).

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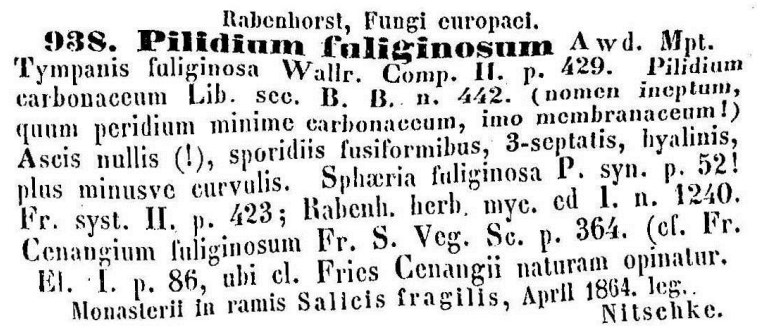
Rabenhorst, Fungi europaei.
938. Pilidium fuliginosum Awd. Mpt.
Tympanis fuliginosa Wallr. Comp. II. p. 429. Pilidium carbonaceum Lib. sec. B. B. n. 442. (nomen ineptum, quum peridium minime carbonaceum, imo membranaceum!) Ascis nullis (!), sporidiis fusiformibus, 3-septatis, hyalinis, plus minusve curvulis. Sphæria fuliginosa P. syn. p. 52! Fr. syst. II. p. 423; Rabenh. herb. myc. ed I. n. 1240. Cenangium fuliginosum Fr. S. Veg. Sc. p. 364. (cf. Fr. El. I. p. 86, ubi cl. Fries Cenangii naturam opinatur.
Monasterii in ramis Salicis fragilis, April 1864. leg. Nitschke.

Fig. 155

Hendersonia mori Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 939, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 939 (fig. 156).

Rabenhorst, Fungi europaei.
939. Hendersonia Mori Kalchbr.
Pyreniis minutis dense gregariis, sporidiis oblongis, quadrilocularibus (loculo secundo plerumque transversim septato), ad dissepimenta haud constrictis, fuscidulis hyalinis. — In ramulis Mori gelu necatis ad pagum Haraflocz Scepusii.
Ist nicht etwa eine weiter entwickelte Diplodia Mori, wie ich anfänglich vermuthete. Diese findet sich gleichzeitig mit ihr an den dickeren Zweigen, hat aber größere, stets nur zweikammerige, im Alter sehr dunkle, fast undurchsichtig werdende Sporen, während die unseres Pilzes kleiner, schlanker, vierzellig, stets hellbraun und durchsichtig sind.

Fig. 156

Sphaerella buxi Auersw. (as "(Desm.) Auersw."), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 940, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria buxi* Desm., Ann. Sci. Nat., Bot., Sér. 2, **19**: 354, 1843, nom. illeg. (Art. 53.1), non (Alb. & Schwein.) DC. 1815.

Notes: *Sphaerella buxi* is a validly published new name based on *Sphaeria buxi* Desm., non (Alb. & Schwein.) DC. 1815 (fig. 157).

Rabenhorst, Fungi europaei.
940. Sphærella Buxi Awd.
Sphæria Buxi Dmz. Ann. sc. nat. 2. XIX. p. 354, nec DeC. Crypt. de Fr. ed I. N. 1280. Paraphysibus nullis; ascis clavatis 8-sporis, membrana duplici non visibili; sporis incumbenti-biseriatis, oblongis, monoblastis, lutescentibus; nucleolis 2—3 variæ magnitudinis.
Leipzig, ad folia Buxi sempervirentis adhuc virentia. 1. Oct. 1865, leg. Auerswald.

Fig. 157

Sphaerella ditricha (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 943, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria ditricha* Fr., Syst. mycol. (Lundae) **2**(2): 515, 1823.

≡ ***Venturia ditricha*** (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk **23**: 188, 1873.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 943 (fig. 158).

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Rabenhorst, Fungi europaei.

943. Sphærella ditricha Awd. in litt. et Mspt. Sphæria ditricha Fr. syst. II. 515; Scler. suec. n. 54! Vermicularia ditricha Fr. S. Veg. Sc. Sphæria chlorospora Ces. in Rbh. f. eur. 48. c. ic ! Sphærella chlorospora Ces. et De Not. Schem. 65; De Not. Sfer. it. N. 97! Sphæria cinerascens Fuck f. rhen. 824! Sphærella cinerascens Rbh. f. eur. n. 848. Ascis paraphysibus obvallatis, sessilibus, basi ventricose inflatis, apicem versus angustatis, octosporis; sporis in superiore asci parte uniseriatis, in inferiore biserialiter stipatis, chlorino-fuscis, pellucidis, subbiscoctiformibus (more Buelliarum), medio vel plus minusve extra medium uniseptatis.

Die Pyrenien zeigen bald an ihrem Scheitel einige Haare, bald sind sie kahl; selbst Cesati zeichnet (cf. fung. eur. n. 48) dieselben mit Haaren, während De Not. Sf. it. n. 97 die Pyrenien vollkommen kahl zeichnet. Die, wie es scheint, ziemlich verbreitete Art variirt sehr in der Lage der Scheidewand: auf Birkenblättern sah ich dieselbe ziemlich regelmäßig in der Mitte; auf den Blättern von Salix alba (Sph. chlorospora) zeigt sich bereits die Neigung, die Mitte zu verlassen und die schon hier und da etwas kürzere Hälfte wird etwas breiter als die längere; auf den Blättern von Sorbus Aria (Sph. cinerascens) und Fraxinus tritt dieses Verhältniß noch weit entschiedener hervor, weil hier die Scheidewand die Mitte ganz deutlich verlassen hat; die kürzere Sporenhälfte scheint auf der längeren wie eine Mütze zu sitzen.

Auf diese in einander übergehenden Formen (die S. chlorospora zeigt am deutlichsten den Uebergang) eigene Arten zu begründen, erscheint mir mehr als unräthlich; es müßten denn mit ungleich größerem Rechte die sämmtlichen Formen der Sphærella maculæformis zu Arten erhoben worden u. s. w.

Auerswald.

NB. Cesati hat auf der Etiquette zu seiner Sphæria chlorospora die Schläuche verkehrt gezeichnet, d. i. den dicken Theil nach oben statt nach unten!)

In fol. siccis Fraxini foliis crispatis, in hortis ad Münster, autumno 1863 leg. Nitschke.

Fig. 158

Sphaerella errabunda (Roberge ex Desm.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 944, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

≡ *Sphaeria errabunda* Roberge ex Desm., Ann. Sci. Nat., Bot., Sér. 3, **10**(2): 355, 1848.

≡ ***Apiognomonia errabunda*** (Roberge ex Desm.) Höhn., Ann. Mycol. **16**(1/2): 51, 1918.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 944 (fig. 159).

Rabenhorst, Fungi europaei.

944. Sphærella errabunda Awd.

Sphæria errabunda Rob. in Dmz. Cr. de Fr. ed. II. N. 1441! Ascis saccato-clavatis 8-sporis, sporis ovalibus, utrinque rotundatis, uniseptatis, septo excentrico, ad quintam fere partem sporarum posito. Simillima Sphærellæ suspectæ Awd., sed differt sporis obtusatis, quæ in illa acutæ.

Im Parenchym der Buchenblätter, mit der Lupe erst sichtbar werdend, wenn man die Blätter gegen das Licht hält.

Auerswald.

Arnstadt in Thüringen, Juni 1865. leg.

Dr. Fleischhak.

Fig. 159

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Sordaria macrospora Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 954, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 954 (fig. 160).

Rabenhorst, Fungi europæi.
954. Sordaria macrospora Awd. n. sp.
Pyreniis globosis, membranaceis, fuscis, $\frac{2}{5}$ millim. fere æquantibus, ostio brevi crassoque conico atro, recto, vel (in speciminibus lateralibus) adscendente coronatis; ascis creberrimis tubulosis, apice retuso-truncato, 8-sporis, sporis uniserialibus, ovalibus, fuscis, majusculis, $\frac{14}{500}$ — $\frac{18}{500}$ millim. longis, $\frac{8}{500}$ — $\frac{9}{500}$ millim. latis, annulo.
In fimo leporino ad Giessen leg. H. Meier.

Fig. 160

Sphaeropsis ilicis (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 956, 1866 [Bot. Zeitung **24**: 307, 1866].
≡ *Xyloma ilicis* Schleich., Cat. pl. Helv.: 84, 1821, nom. illeg. (Art. 53.1), non Fr., 1818.
≡ *Sphaeria ilicis* Fr. (as "(Schleich.) Fr."), Syst. mycol. (Lundae) **2**(2): 501, 1823, non *Phyllosticta ilicis* (Desm.) Allesch., 1898.
= ***Phyllosticta philoprina*** (Berk. & M.A. Curtis) Wikee & Crous, Stud. Mycol. **76**: 23, 2013.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 956 (fig. 161).

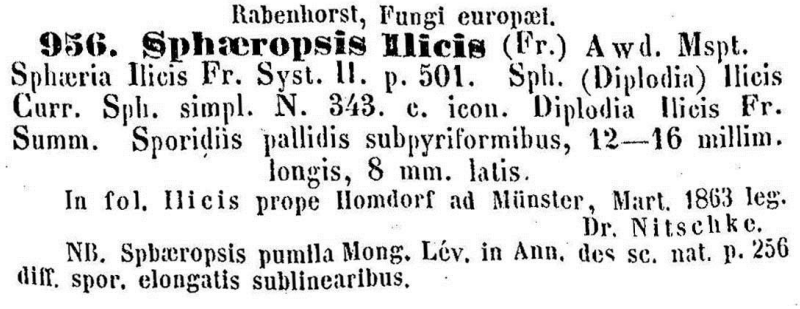
Rabenhorst, Fungi europæi.
956. Sphæropsis Ilicis (Fr.) Awd. Mspt.
Sphæria Ilicis Fr. Syst. II. p. 501. Sph. (Diplodia) Ilicis Curr. Sph. simpl. N. 343. c. icon. Diplodia Ilicis Fr. Summ. Sporidiis pallidis subpyriformibus, 12—16 millim. longis, 8 mm. latis.
In fol. Ilicis prope Homdorf ad Münster, Mart. 1863 leg. Dr. Nitschke.
NB. Sphæropsis pumila Mong. Lév. in Ann. des sc. nat. p. 256 diff. spor. elongatis sublinearibus.

Fig. 161

Phoma miribelii (Fr.) Auersw. (as "*mirbelii*") , Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 958, 1866 [Bot. Zeitung **24**: 307, 1866].
≡ *Sphaeria miribelii* Fr., Linnaea **5**: 548, 1830.
≡ *Sphaeropsis miribelii* (Fr.) Lév., Ann. Sci. Nat., Bot., Sér 3, **5**: 296, 1846.
= ***Guignardia miribelii*** Aa, Persoonia **8**(3): 283, 1975.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 958 (fig. 162).

Rabenhorst, Fungi europæi.
958. Phoma Mirbelii Awd.
= Sphæropsis Mirbelii Lév. Ann. sc. nat. 3. v. p. 296.
Sphæria delitescens Wllr. (minime vero Sphæropsis Candollei B. B. 423, quæ vera Sphæropsis).
Leipzig, ad folia Buxi sempervirentis 1. Oct. 1865.
Auerswald.

Fig. 162

Phoma dilleniana Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 960, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 960 (fig. 163).

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Rabenhorst, Fungi europæi.
960. Phoma Dilleniana Rabenh. Mspt.
Ph. exiguæ Desmaz. Ann. 1849. Cr. de Fr. ed. II. N. 1469! proxima, diff. sporis majoribus ($\frac{1}{728}$''' = 0,0031 millim. crassis, duplo sæpe triplo longioribus), oblongis, sæpius cylindricis, haud raro curvulis.
Ad caules siccos Anodae Dillenianae in hortis prope Dömitz (Flor. Megapolit.) leg. Dr. Fiedler.

Fig. 163

Phoma atomus (Lév.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 961, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].
≡ *Sphaeropsis atomus* Lév., Ann. Sci. Nat., Bot., Sér. 3, **9**: 257, 1848.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 961 (fig. 164).

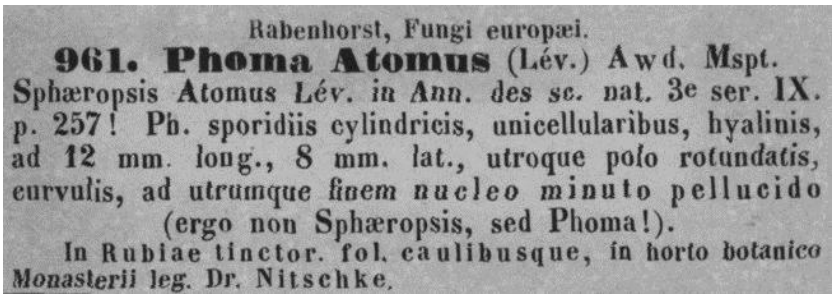
Rabenhorst, Fungi europæi.
961. Phoma Atomus (Lév.) Awd. Mspt.
Sphæropsis Atomus Lév. in Ann. des sc. nat. 3e ser. IX. p. 257! Ph. sporidiis cylindricis, unicellularibus, hyalinis, ad 12 mm. long., 8 mm. lat., utroque polo rotundatis, curvulis, ad utrumque finem nucleo minuto pellucido (ergo non Sphæropsis, sed Phoma!).
In Rubiae tinctor. fol. caulibusque, in horto botanico Monasterii leg. Dr. Nitschke.

Fig. 164

Ascobolus cesatii Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 976, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 8, 1867].
≡ *Pezizula cesatii* (Carestia) P. Karst., Bidr. Känn. Finl. Nat. Folk **19**: 83, 1871.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 976 (fig. 165).

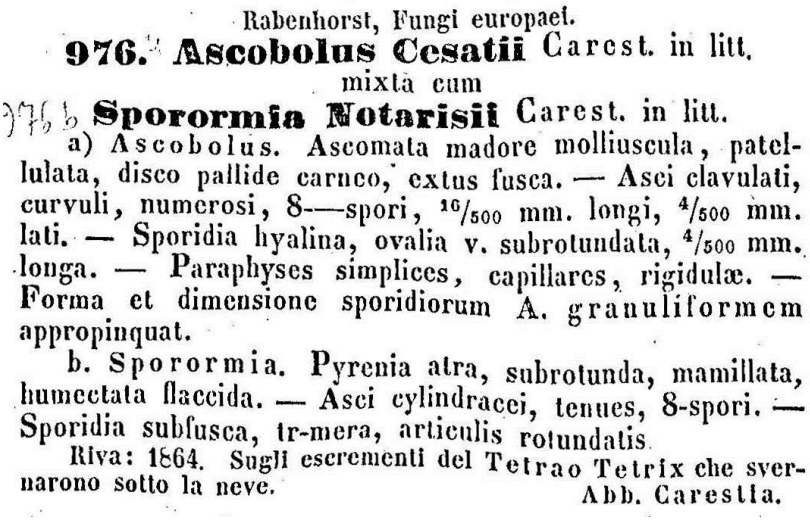
Rabenhorst, Fungi europaei.
976. Ascobolus Cesatii Carest. in litt.
mixta cum
976 b **Sporormia Notarisii** Carest. in litt.
a) Ascobolus. Ascomata madore molliuscula, patellulata, disco pallide carneo, extus fusca. — Asci clavulati, curvuli, numerosi, 8—spori, 16/500 mm. longi, 4/500 mm. lati. — Sporidia hyalina, ovalia v. subrotundata, 4/500 mm. longa. — Paraphyses simplices, capillares, rigidulæ. — Forma et dimensione sporidiorum A. granuliformem appropinquat.
b. Sporormia. Pyrenia atra, subrotunda, mamillata, humectata flaccida. — Asci cylindracei, tenues, 8-spori. — Sporidia subfusca, tr-mera, articulis rotundatis.
Riva: 1864. Sugli escrementi del Tetrao Tetrix che svernarono sotto la neve.
Abb. Carestia.

Fig. 165

Verticillium buxi (J.C. Schmidt ex Link) Auersw. & Fleischh., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 979, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 9, 1867].
≡ *Fusidium buxi* J.C. Schmidt ex Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 97, 1825.
≡ ***Clonostachys buxi*** (J.C. Schmidt ex Link) Schroers, Stud. Mycol. 46: 193 (2001).
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 979 (fig. 166).

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Rabenhorst, Fungi europaei.

979. Verticillium Buxi Awd. et Fleischk.

Fusidium Buxi Schm. Fusisporium Buxi Fr. Syst. ex p. Fusidium Buxi Rabenh. Handb. ex p. Penicillium roseum Berk. et Broome Brit. Fung. N. 535.

V. hyphis fertilibus erectis, septatis, furcato — aut ternato — ramosis; sporis oblongis, integris, apice ramorum verticillatis.

Lipsiae, ad folia Buxi sempervirentis in consortio omnium fungorum, qui apud Chaetostroma Buxi a me nominati, sed pariter ab his speciminibus remoti sunt. Auerswald.

Fig. 166

Sciniatosporium lycii Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 985, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 9, 1867].
≡ *Stigmina lycii* (Kalchbr.) B. Sutton, Trans. Brit. Mycol. Soc. **58**(1): 166, 1972.
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 985 (fig. 167).

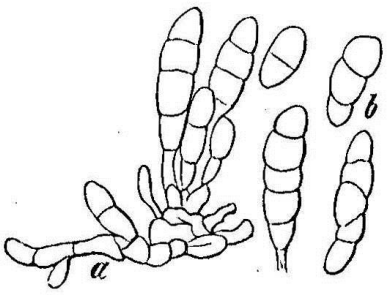
Rabenhorst, Fungi europaei.

985. Sciniatosporium Lycii Kalchbr.

Stroma, — sub epidermide decolorata, tuberculoso inflata et demum rima longitudinali hiante, — circumscriptum vel confluendo subeffusum, planum, centro nonnisi tuberculato-elevatum, carneo-rubellum, carnoso fibrosum, fibris solidis, septatis, dense contextis. — Sporidia oblonga, plurilocularia, ad septa parum constricta, stipite brevi, valido, sporophoris adnata, fusca, diaphana, cæspites nigricantes effusos formantia. — In ramulis junioribus Lycii, europæi, gelu necatis, prope Harakocz Scepusii. Vere.

C. Kalchbrenner.

Wenn ich nicht irre, hat Herr G. v. Nießl denselben Pilz in seinem „Pilze und Myxomyceten Mährens" als Sporidesmium beschrieben und abgebildet. Die Rechtfertigung meiner Ansicht und meiner anderweitigen Beobachtungen über den genetischen Zusammenhang der auf Lycium wachsenden Pilze werde ich wohl später in der „Hedwigia" geben können. C. K.



a. Fibræ stromatis. b. Sporæ.

Fig. 167

Dicaeoma prunorum (Link) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 990, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 10, 1867].
≡ *Puccinia prunorum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 82, 1825.
= ***Tranzschelia pruni-spinosae*** (Pers.) Dietel, Ann. Mycol. **20**(1/2): 31, 1922.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 990 (fig. 168).

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Rabenhorst, Fungi europaei.
990. Dicæoma Prunorum (Link).
Puccinia Prunorum Aut. P. fusca, Pruni Wallr. P. verrucosa Bonord. Coniom. p. 53. N. 17.
In fol. Pruni domesticae ad Salem leg. Jack.
NB. Genus Dicaeoma Nees ab omnibus fere mycologis neglectum, a Bonorden tantum (Handb. p. 42.) optime intellectum et interpretatum differt a Puccinia sporis bicellularibus, earum cellulæ ante germinationem in duas sporas singulas secedentes. Cellularum membrana semper tenuis. Spor. diametr. (plerumque) 1/49 millim. = 1/110‴. L. R.

Fig. 168

Puccinia reticulata de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 993, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 10, 1867].
Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 993 (fig. 169).

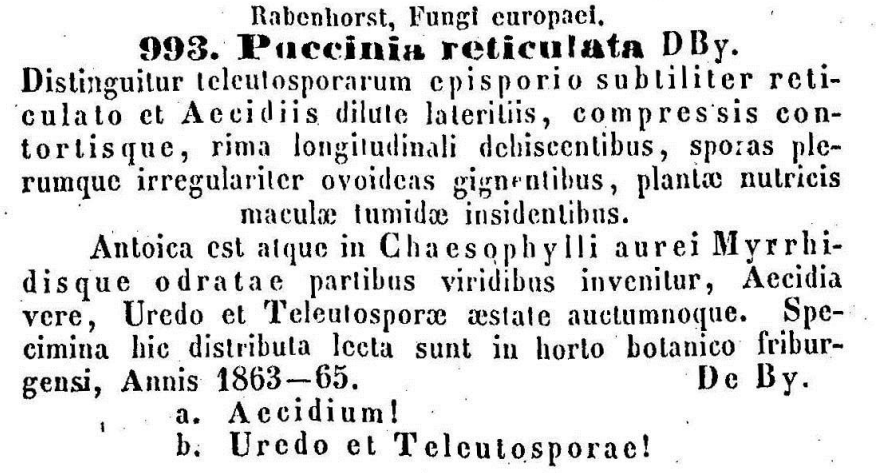
Rabenhorst, Fungi europaei.
993. Puccinia reticulata DBy.
Distinguitur teleutosporarum episporio subtiliter reticulato et Aecidiis dilute lateritiis, compressis contortisque, rima longitudinali dehiscentibus, sporas plerumque irregulariter ovoideas gignentibus, plantæ nutricis maculæ tumidæ insidentibus.
Antoica est atque in Chaesophylli aurei Myrrhidisque odratae partibus viridibus invenitur, Aecidia vere, Uredo et Teleutosporæ æstate auctumnoque. Specimina hic distributa lecta sunt in horto botanico friburgensi, Annis 1863—65. De By.
a. Aecidium!
b. Uredo et Teleutosporae!

Fig. 169

Puccinia prenanthis-tenuifoliae Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 996, 1866 [Bot. Zeitung **24**: 308, 1866], nom. nud.

Uromyces leguminosarum (Rabenh.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung **24**: 308, 1866].
≡ *Caeoma leguminosarum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 61, 1825, nom. illeg. (Art. 53.1), non *Caeoma leguminosarum* (Link) Schltdl., 1824.
≡ *Uredo leguminosarum* Rabenh., Deutschl. Krypt.-Fl. (Leipzig) **1**: 27, 1844.
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 998 (fig. 170).

Uromyces leguminosarum f. *cytisi* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung **24**: 308, 1866].
Notes: This is a valid forma published on the label of Fungi Eur. Exs. 998 (fig. 170) as substrate (host) forma.

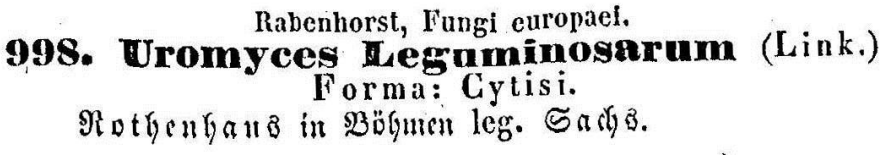
Rabenhorst, Fungi europaei.
998. Uromyces Leguminosarum (Link.)
Forma: Cytisi.
Rothenhaus in Böhmen leg. Sachs.

Fig. 170

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