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Inhalt. C. Müller: Musci Novo-Granatenses. — Dr. K. Prantl: Morphologische Studien. — Literatur. — Anzeige. — Einläufe zur Bibliothek und zum Herbar.

Musci Novo-Granatenses nonnulli novi praesertim a Cl. Gust. Wallis collecti

auctore

Carolo Müller Hal.

1. *Angströmia* (*Euangströmia*) *maculata* n. sp.; *Angströmiae julaceae* simillima, caule perhumili julaceo, sed folia caulina trimorphe areolata, basi cellulis alaribus minutis quadratis firmis plus minus pellucidis permultis, mediis in membranam flavidam sine lumine incrassatis, supremis majoribus cum parietibus crassis plus minus fuscatis et lumine igitur maculam terminalem sistentibus. Fructus ignotus.

Patria. Nova Granata, Ocanna, Cerro pelado, inter *Lecanoram* circa 12,000 ped. elevationis: G. Wallis 1874.

A. julacea foliis dimorphe areolatis haud maculatis statim distinguitur.

2. *Dicranum* (*Campylopus*) *crispicoma* C. Müll. n. sp.; cespites pollicares robusti inferne tomentosi; caulis flexuosus robustus dense foliosus, apice floribus femineis pluribus comam subcrispifoliam densam robustiorem parum secundam sistentibus divisus et incrassatus, lutescenti-virens; folia caulina erecto-imbricata

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horridula, madore stricta, brevia, e basi lanceolata latiuscula radiculis in tomentum orbiculare congestis obtectâ sensim in acumen robustum breviusculum apice serratum canaliculatum parum tortum attenuata, nervo lato applanato parum carinato folii dimidium ubique occupante celluloso dorso apicis angustissime alato et remote denticulato percursa, margine erecto vix convolutaceo hic illic parum undulato-impresso, cellulis alaribus permultis laxis firmis rubro-fuscis in ventrem levem congestis vel magis applanatis, basilaribus paucis firmis parenchymaticis grossiusculis in ellipticas incrassatas deinque rotundatas minutas transeuntibus; perich. in gemmam angustam strictam congesta, e basi lanceolata subito fere acuminata, cellulis alaribus planis. Caetera ignota.

Campylopus arctocarpus Mitt. Musc. A. Amer. p. 87 ex parte.

Patria. Venezuela, prov. Caracas, Galipan, 4500—5000 ped. altum: Funck et Schlim (No. 366) Januario 1845.

Ex habitu *Dicrano areodictyo* Venezuelensi aliquantulum simile, sed haecce species statura strictiore foliisque basi laxe pellucide reticulatis jam longe recedit. — Planta sterilis gracilior laxifolia in comam attenuatam caudatam secundam protracta, plantae femineae parum similis et ad *Campylopodem concolorem* magis accedens, sed haecce species foliis multo longius et angustius acuminatis cellulisque basilaribus permultis laxissimis jam differt.

3. *Dicranum* (*Campylopus*) *altissimum* C. Müll. n. sp.; dioicum; cespites altissimi circa sexpollicares laxe cohaerentes radiculosi molles oncophoroidei pallide virentes splendentes; caulis fragilis flexuosus fusco-tomentosus, ramis singulis elongatis longe attenuatis divisus, in comam subfalcatam patulam undulatam productus; folia caulina remotiuscula distantia patentissima vel superne magis erecta, majuscula, e basi lata reflexa cellulis alaribus magnis laxis fuscis dein marcescentibus reticulatâ latiuscule lanceolato-subulata elongata planiuscula membranacea, margine anguste revoluto ad medium denticulato-serrulata apicem versus valde serrata, dorso serrato-scabra, nervo latissimo laxe reticulato, cellulis basilaribus parvis laxiusculis teneris pellucidis rhomboidali-parenchymaticis, marginalibus ellipticis incrassatis, superioribus minutis rotundatis obscurulis; perich. e basi latissime ovata fusco-colorata concava laxissime reticulata in subulam robustam serratam plus minus elongatam vel breviorem canalicu-

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latam protracta; theca in pedunculo pro planta brevi tenero flexuoso flavido deflexo vel erecto glabro elliptica brevicolla exstrumosa glabra plicata flavo-virens; calyptra pallida dimidiata operculum subulatum angustum obtegente glabra basi fimbriis breviusculis hyalinis strictis vix articulatis acutis ornata; annulus latissimus revolubilis duplex; perist. robusti dentes magni, e basi longa lata rubra trabeculata in crura duo elongata pallidiora rugulosa regulariter fissi; sporae aurantiacae.

Patria. Nova Granata, prov. Antioquia, Alto de Hato viejo, 8000—10,000′: G. Wallis 1874.

Ex habitu ad Campylop. Jamesoni et affines aliquantulum accedens, sed statura altissima et foliis Oncophorum referens, singulare et speciosissimum.

4. *Schliephackea prostrata* C. Müll. n. sp.; monoica; cespites prostrati plani intertexti sordide lutescentes lati molles teneri; caulis gracillimus elongatus 5—6 pollicaris vel longior flexuosus brunnescens, ramulis brevibus flexuosis apice in comulam parvam stellato-patulam saepius falcatam productis remotissimis hic illic divisus veluti repens; folia caulina horride patentia remota flexuosa tenera angustissima lineari-subulata, e basi decurrente semiamplexicauli magna caulem latitudine multo superante cellulis alaribus multis laxis aureis fragilibus rigidiusculis utriculo primordiali repletis reticulata reflexâ primum convolutaceo-lanceolata dein in subulam elongatam canaliculatam valde serratam attenuata, dorso levia, nervo angustissimo lutescente percursa, e cellulis elongatis parietibus interruptis instructis plus minus conflatis lutescentibus areolata; perich. externa pauca e basi latoovata vaginata undulata cellulis magis ellipticis areolata et cellulis alaribus permultis densioribus instructâ subito fere subulata minus serrata, interna pauca multo minora; theca in ped. cygneoflexuoso erecto glabro tenuissimo flavido nutans vel siccitate erecta parva ovalis aequalis glabra, operculo e basi conica tuberculosa subulato multo longiore flexuoso madore stricto apice hyalino, annulo interno, calyptra dimidiata glabra vel apice vix asperula; perist. dentes robusti e basi lata rufa elongate subulati pallidiores ubique asperi.

Geheebia prostrata C. Müll. in litteris.

Patria. Nova Granata, prov. Antioquia, Cerro prope Frontino, 8000 ped. alta: G. Wallis 1874.

Ex habitu formis gracilioribus *Dicrani Blumei* vel *D. speirophylli* aliquantulum similis, sed statura gracillima hypnoidea vel

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melius dichelymoidea prostrata primo visu singularis. Flores masculi plures in eadem planta fertili, tomento insidentes minutissimi, nodulum sistentes, foliis pygmaeis e basi vaginata ovata breviter acuminatis integerrimis minute pellucide reticulatis enervibus. Planta speciosissima genus novum memorabile dicranoideum sistens caracteribus sequentibus:

Schliephackea gen. n.; hypnoideo-intricata orthodicranoidea; calyptra dimidiata integra; peristomium simplex: dentes 16 monocranei indivisi, linea divisurali carentes trabeculati, sed basi latiore parietibus verticalibus reticulati, plani, subulis elongatis inflexis, nunquam conum sistentes, (rarissime hic illic perforati vel medio secedentes nunquam dicranoidei).

Genus in honorem Cl. Caroli Schliephacke, directoris technici Waldaviensis, bryologi indefessi et de muscis nonnullis senioribus vel novis optime meriti impositum, e tribu Dicranacearum, Orthodicranis nonnullis quoad figuram affine, sed caule quasi repente cespites prostratas sistente gracillimo dentibusque peristomii integris elongatis apice inflexis basi reticulatis strictis nunquam conum constituentibus raptim distinguendum, egregium, quoad dentes monocraneos Eucamptodonti aliquantulum affine.

5. *Bryum (Sclerodictyum) clavicaule* n. sp.; dioicum? *Bryo semiovato* simillimum, humillimum; caulis tenuis subclavato-incrassatus; folia caulina minuta latiuscule ovata parum acuta, nervo pertenui ad medium jam dissoluto exarata, e cellulis teneris mollibus rhombeo-prosenchymaticis parum chlorophyllosis basi amplioribus pellucidioribus tenerioribus reticulata. Caetera ignota.

Patria. Nova Granata, prov. Antioquia, Sa. Isabel, inter Collemata, 10,000 ped. elevationis: G. Wallis 1874.

Omnes congeneres caeteri foliorum areolatione plus minus incrassata terminali recedunt.

6. *Mielichhoferia pectinata* n. sp.; surculi nigricantes tenelli perpusilli flexuosi, inferne veluti nudi, apice solum densiuscule foliosi, basi infima subtomentosi; folia caulina inferiora minuta remota lanceolato-acuminata, suprema pauca secunda, cristulam parvulam vix arcuatam sistentia igitur pectinata, dense imbricata et pro plantulae exiguitate latiuscula, viridia vel lutescentia firma rigidiuscula, e basi ovata subfalcato-lanceolata vel juventute parum acuminata strictiora, nervo valido carinato flavido excurrente arcuato-flexuoso submucronata, perfecte carinato-concava, margine ubique erecto apicem versus ob cellulas angustas promi-

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nentes minute serrulata, e cellulis robustulis majusculis longiusculis flavidis basi amplioribus pellucidioribus reticulata; perich. multo minora dense imbricata erecta tenuiter et evanide nervosa; theca in ped. valido elongato rigido rubente inclinata, e collo brevi turgide ovalis microstoma leptoderma fusco-ochracea dein brunnescens gymnostoma, operculo minuto conico, annulo persistente simplici angusto.

Patria. Nova Granata, Ocanna, Cerro pelado, 10—12,000 ped. elevationis inter lichenes occulta: G. Wallis 1874.

Surculis solitarie vigentibus, nigricantibus, foliis parvis robustis secundis validissime nervosis, theca longipedunculata pro plantula magna gymnostoma et operculo minutissimo raptim ab omnibus congeneribus refugit. Specimina perpauca solum observavi. — Species solitaria elegans e surculo crassiore quoque innovationem tenerrimam exmittens, cujus folia recta comulam minutam rectam sistunt.

7. *Bartramia* (*Eubartramia*) *thelioides* n. sp.; caulis perpusillus, inferne teres apicem versus crescens clavarioides tenuis, innovatione simili brevi divisus, viridissimus tenellus; folia caulina inferiora minuta subsquamato-imbricata, superiora parum majora erecto-conferta madore parum patula, omnia rigidissima carnosa, e basi latiore ovata subito fere lanceolato-acuminata brevia, perfecte carinato-concava, margine plerumque erecta vix reflexa sed ob papillas majusculas truncatulas densas hyalinas veluti serrulato-marginata, nervo carinato flavido in mucronem brevissimum excurrente percursa, basi flavida diaphana ad acumen ubique dense papillosum opaca, e cellulis parvis firmis flavidis rectangularibus ad parietes transversales parum papillosis superne minoribus dense papillosis areolata. Caetera ignota.

Patria. Nova Granata, Ocanna, Cerro pelado, 10—12,000 ped. elevationis, inter lichenes cum *Mielichhoferia pectinata* specimina pauca sterilia; G. Wallis 1874.

E statura pygmaea foliisque truncato-papillosis thelioideis singularis, ex habitu ad *Bartramiam Bogotensem* Hpe. aliquantulum accedens.

8. *Hyophila Bescherellii* C. Müll., dioica; late laxe cespitosa sordide viridissima horride crispata, superne ramulis tenuibus fasciculatim divisa vel simplicior, vix pollicaris; folia caulina laxe veluti interrupte imbricata rigida, apice uncinate arcuata, valde convoluta, madore patula vel patentiora, e basi brevissima rectiore latiuscule oblongo-lanceolata, nervo crasso flavido in mucronem

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excedente acutata, valde involuta, apice parce obtusiuscule denticulata, e cellulis infimae baseos laxiusculis sed firmis fuscate pachydermibus deinque minutius rectangularibus, inde quadrato-rotundatis distinctissimis vel opacis areolata; perich. e basi vaginata plus minus longiuscule et anguste acuminata vel late lanceolata et acumine brevissimo obtusato terminata; theca in pedunculo longiusculo rubente tenui flexuoso erecta angustissime cylindrica vix curvatula parum longior badia, operculo brevi aciculari obliquiusculo, annulo angusto; calyptra elongate angustissima thecam superans et circa pedunculum torquata glabra.

Trichostomum Bescherellii Schpr. in Bescher. Prodr. Bryol. Mexic. p. 33. — Tr. gymnostomum Schpr. Hb. — Didymodon macromitrium Schpr. in schedulis.

Patria. Mexico, Mirador, in terra vel in rupium fissuris et ad muros: Florentin Sartorius in Hb. C. Mohr; in calcareis rupibus montis Orizaba: C. Mohr et Fréder. Müller formam minorem legerunt.

9. *Catharinea* (*Polytrichadelphus*) *Abriaquiae* C. Müll. n. sp.; dioica; cespites lati laxe cohaerentes suprapollicares duri rigidi fusci; caulis subgracilis 1 — 2 pollicaris simplex, innovatione solum semel vel pluries ramulum brevissimum fertilem exserens parum flexuosus; folia caulina dense conferta comam brevem acutiusculam sistentia, madore juniperoideo-patula, parva brevia, e basi semivaginata aureo-colorata lata ovata cellulis elongatis laxis margine angustioribus reticulata breviter lanceolata, acumine fusco rigido firmo crasso integro brevi subpungentia, dentibus sursum curvatis fuscis remotis superne aculeata, dorso dentibus remotissimis paucis haud curvatis obtecta, nervo lato laminam fere totam lamellosam occupante percursa, ad laminam basilarem e cellulis depressis incrassatis fuscis areolata; perich. bina appressa parum longiora, e basi tenuiter membranacea pallidiore ovato-lanceolata elongata laxe reticulata vaginata plicatula superne subscariosa et cellulis magis ellipticis areolata carnoso-lanceolata brevia parum longius fusce pungentia, magis convolutacea margine et dorso parum denticulata vel integriuscula; theca in ped. elongato 1 — 2 pollicari flexuoso rigido rubente glabro plus minus inclinata, parvula cubica gracilis macrostoma glabra olivacea demum brunnescens, aetate nutans, operculo conico-subulato flexuoso; peristomii dentes brevissimi pallidi angusti rufo-lamellosi circa 68; calyptra cornea fuscidula glaberrima.

Patria. Nova Granata, prov. Antioquia, Abriaqui, 8000 ped. alta: G. Wallis 1874.

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A *Polytrichadelpho Trianae* proximo et simili differt: statura graciliore, pedunculo tenuiore, theca minore, operculo longe aciculari, foliis aculeatis aliisque caracteribus.

10. *Zygodon* (*Euzygodon*) *aureus* C. Müll. n. sp.; dioicus; pulvinuli subcompacti pollicares intense aurei; caulis gracilis parce divisus, ramulis brevissimis nodosiusculus; folia caulina crispula madore erecto-patula, dense imbricata, minuta, e basi perangusta anguste lanceolata brevissime acuminata, profunde canaliculate integerrima, margine vix convexa, nervo carinato flavido dein aureo excurrente, cellulis pro folii magnitudine magnis angulate rotundatis membranam incrassatam sistentibus, aurescentibus, basi parum longioribus conflatis intense flavidis; perich. pauca majora anguste lanceolato-acuminata longiora, infima basi e cellulis teneris pellucidioribus vel conflatis flavidis robustiusculis superne conflatis rotundatis angulatis areolata; theca in ped. breviusculo tenerrimo spiraliter torto leviter rubente paulisper inclinata vel erecta minuta tenera ochracea 6-ies plicata angustissima macrostoma, aetate brunnescens, parum arcuata; perist. internum e membrana annulari brevissima compositum.

Patria. Nova Granata, Ocanna, Cerro pelado, 8000—10,000', cum *Macromitrio aureo* consociatus: Schlim in Coll. Linden. 1852.

Flores masculi plures in caule proprio laterales gemmacei, foliis externis e basi ventricoso-concava pulcherrime flava grosse elliptico-areolata anguste lanceolatis, internis convolutis latioribus ovatis breviter acuminatis, nervo carinato tenui rubiginoso ante acumen evanido exaratis, e cellulis ampliusculis laxis aureis apice grosse ellipticis incrassatis aureis reticulatis. — Z. Goudoti Hpe. proximus facile distinguitur pulvinulis laxiusculis, theca erecta, peristomio interno 16-ciliato.

11. *Zygodon* (*Euzygodon*) *ceratodontoides* C. Müll. n. sp.; monoicus; pulvinuli densiusculi humiles lutescentes rigidiusculi; caulis brevis parum divisus, folia caulina densiuscule imbricata vix crispula apice caulis vix secunda, madore erecto-patula, e basi angustiore latius lanceolata profundissime canaliculata, margine convexo inaequaliter flexuosa, apice solum dentibus perpaucis inaequalibus majoribus vel minoribus dentata, parum recurvata, nervo carinato lutescente in apiculum brevem excurrente, cellulis incrassatis angulate rotundatis, basi parallelogrammis, infima basi paucissimis laxioribus flavidis vel fuscidulis; perich. caulinis latiora strictiora vix flexuosa integra; theca in ped. mediocri semi-

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pollicari flavido arcuato-flexuoso inclinata vel cernua, e collo brevi cylindrico-ovalis microstoma profunde 6-ies plicata ochracea arcuato-cernua ceratodontoidea, operculo minutissimo apiculiformi; perist. simplex externum, dentibus brevissimis hyalinis membranaceis lanceolatis irregularibus horizontalibus.

Patria. Nova Granata, Ocanna, Cerro pelado, 11,000 pedes altus: G. Wallis 1874.

Ob thecam ceratodontoideam cernuam valde plicatam robustiusculam microstomam et peristomium statim ab omnibus congeneribus refugiens, habitu aliquantulum ad Z. Goudoti Hpe. accedens, sed fructu toto coelo diversus. — Flos masculus in eodem caule robustiusculus, antheridiis permultis turgidis magnis stipitatis, paraphysibus pallide flavidis acutis.

12. *Pilotrichum Wallisi* C. Müll. n. sp.; caulis primarius repens, secundarius elongatus 3— 4 pollicaris angustiusculus attenuatus eleganter semi-tripinnatus crassiusculus, ramis pertenuibus filiformibus approximatis apice sursum vel deorsum curvatis brevibus vel longioribus, inferioribus ob ramulos brevissimos simplices vel dichotome divisos inaequaliter tripinnatis, superioribus magis curvatis ob ramulos dichotome divisos vel indistincte pinnatos saepius secundis indistincte bipinnatis, supremis simplicibus, omnibus pallide virentibus vix nitidulis; folia caulina majora, ramulina minuta erecto-conferta, cochleariformi-ovalia brevissime acuminata, margine integerrimo inferne valde revoluta et superne undulata, profunde concava, saepius transversim plicata, nervis binis crassis ante apicem reflexiusculum abruptis, unico plerumque alato saepius serrulato in spinam acutam producto, cellulis minutissimis ellipticis membranam fragilem sistentibus incrassatis; perich. longiora angustiora cymbiformia, nervis magis aequalibus vix spinosis, brevioribus et tenerioribus; theca in ped. perbrevi rubro glabro erecta urnigero-ovalis parva macrostoma, operculo conico-acuminato recto, calyptra tenerrima mitraeformi pilosula; perist. d. ext. lati elongati plani linea longitudinali exarati dense trabeculati pallide lutei vix asperuli, introrsum curvati, int. strictissimi elongati carinati lepidopiloidei veluti inaequaliter articulati asperuli in membrana brevissima.

Patria. Nova Granata, prov. Antioquia, Cerro prope Frontino, 8000 ped. altum: G. Wallis 1874.

Statura angusta elongata tenera elegantissima, ramis curvatis filiformi-tenuibus foliisque minutis dimorphe nervosis raptim cognoscendum, *P. bipinnato* proximum.

(Fortsetzung folgt.)

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