

croceo-papillosis, 40-50 mm. long., basi 1,5-2 mm. cr.; peritheciis stromate infossis, globulosis, 500-600  $\mu$ . diam., dense constipatis; ostiolo conico, exserto 200-300  $\approx$  50-100; ascis cylindræis, longissimis, 8-sporis, 450-500  $\approx$  4, fasciculatis, basi breviter attenuato-pedicellatis, aparaphysatis; sporidiis filiformibus, gracillimis, ascorum longitudine, hyalinis, dein in articulos cylindræos, 5-20  $\approx$  1 secedentibus.

*Hab.* ad larvas Cerambicideæ cujusdam ad caudices cariosos prope Apiahy Brasilæ.

13. **Cordyceps goniophora** Speg. F. Puigg. n. 307. — Stromatibus 4012 filiformibus, gracillimis, atris, 5-20  $\approx$  0,1-0,3, mm., simplicibus vel ramulosis, stipitibus ramisque ad medium abrupte noduloso-incrasatis, 1  $\approx$  0,5 mm., apice attenuatis ac capitulo minutissimo, roseo-aurantio, clavulato ornatis; peritheciis, ascis sporidiisque ob immaturitatem deficientibus.

*Hab.* in corpore putrescente Mutillæ sp. cujusdam inter muscos pr. Apiahy Brasilæ.

14. **Cordyceps Hawkesii** Gray Not. of insects bas. fung. paras. 1858, 4013 t. II, f. 10-12, Cooke Grev. XIX, p. 76. — Stromate cylindræo apice attenuato-truncato, peritheciolorum immersorum ostiolis punctato, toto 12-18 cm. long., stipite flexuoso inæquali, 5-10 cm. long., simplici subinde 3-4 clavas ferente; ascis sporidiisque generis.

*Hab.* in larvis insectorum in Tasmania (HAWKES). — Affinis *C. Gunnii* et *C. Robertsii* sed facile distincta. E pluribus larvæ partibus oritur.

**EPICHLÖE** Fr. — Sacc. Syll. II, p. 579.

1. **Epichloe ? nigricans** Speg. Fungi Guar. Pug. I, n. 254. — Stro- 4014 matibus partem breviusculam, 5-10 mm. long., sub nodis culmorum infectantibus non v. vix eam tumefacientibus sed nigrificantibus, tenuibus, 250-300  $\mu$ . crass., in juventute molliusculis, intus albis in senectute subcrustaceo-fragilibus, intus fuscescentibus, levibus; peritheciis (an oculis?) stromate immersis, densissime constipatis, elliptico-ovatis, basi sæpius truncatis, minutis, 140-150  $\approx$  50-80, ostiolo perforato, stromatis superficiem vix attingente donatis; ascis cylindræis vel subfusoideo-cylindræis antice rotundatis crassissimeque tunicatis, luce refracta bifoveolatis, postice attenuatis ac breviter pedicellatis, p. sp. 90-100  $\approx$  4,5, ped. 15-20  $\approx$  1-2, aparaphysatis, octosporis; sporidiis fasciculatis, filiformibus, 70-80  $\approx$  0,6-0,8 laxè septulatis, rectis, hyalinis.

*Hab.* ad culmos vivos Graminaceæ minoris cujusdam in pratis prope Guarapí Brasiliæ. — Species pulchella et facile ad *Dothideaceas* transferenda; ab *E. strangulante* ut videtur, satis recedit. Inter perithecia ascigera adsunt nonnulla spermatiphora omnia simillima, spermatia fusoido-clavulata, utrinque attenuata, apice truncato-rotundata basi elongato-acutata, subinæquilateralia, 15-20  $\approx$  1-1,5, non v. pluriguttulata, hyalina, in sterigmatibus fusoidis, 7-8  $\approx$  1, utrinque attenuato-truncatis exurgentia.

2. **Epichloe sclerotica** Pat. Journ. Bot. 1890, pag. 65, f. 8. — Stromate sclerotiiformi, extus nigro, intus albido, contextu compacto-indurato, strato exteriori brunneo, toruloso, peritheciigero; peritheciis immersis, ovoideis, 200-250  $\approx$  90-120; ascis cylindratis, numerosis, valde elongatis, apice rotundatis, 5-6  $\mu$ . lat.; sporidiis filiformibus; ascis æquilongis, 1  $\mu$ . cr., hyalinis, non septatis.

*Hab.* in inflorescentia Graminearum, Fac-Bin, Tonkin Asiæ orient.

**HYPOCRELLA** Sacc. Syll. II, p. 579.

1. **Hypocrella? guaranítica** Speg. Fungi Guar. Pug. I, n. 256. — Stromatibus hypophyllis, globosis, 1,5-2,5 mm. diam., densiuscule gregariis, rarius confluentibus, superficialibus, minute laxèque papillulatis v. granulosis, glabris, extus fusco-ferrugineis v. fusco-atris, intus albo-fuscescentibus, vivis carnosulis, siccis duris; peritheciis in stromate periphericis, globosis v. ellipticis, 150-180  $\mu$ . d., laxè constipatis parum a substantia stromatica distinctis, ostiolo perforato, stromatis superficiem attingente ac minute papillato-prominulo donatis; ascis cylindratis v. subfusoido-cylindratis, apice crassissime tunicatis, luce refracta 1-foveolatis basi breviter crasseque attenuato-pedicellatis, 130-150  $\approx$  5-7, octosporis, aparaphysatis; sporidiis fasciculatis, ascorum longitudine, filiformibus, mox in articulos 3-7  $\approx$  1, utrinque truncatos, crasse 2-4-guttulatos secedentibus.

*Hab.* ad folia viva Euphorbiaceæ (*Colliguajæ* spec.) in silvis subvirgineis prope Villa-Rica Brasiliæ. — Species pulcherrima et ad *Dothideaceas* vergens; stromata in foliis dejectis maturantia sed facillime a matrice secedentia.

2. **Hypocrella citrina** Speg. F. Puigg. n. 303. — Stromatibus hypophyllis, sparsis vel hinc inde laxè 2-3-gregariis, hemisphæricolenticularibus glabris, hypothallo hyalino, pelliculoso, radiante, 3-4 mm. diam., superficiali insidentibus, superne applanatis ac sæpius

papillulosis, 1-2 mm. diam.; peritheciis globulosis, immersis, in margine stromatis sæpius constipatis, 250  $\mu$ . diam.; ostiolo papillulato, non vel vix exserto; ascis cylindræis, subfusoides, apice rotundato-truncatis, crasse tunicatis, 1-foveolatis, deorsum breviter attenuato-pedicellatis, 120-130  $\approx$  6-8, octosporis, aparaphysatis; sporidiis filiformibus, continuis, hyalinis, continuis v. rarius in articulos secedentibus, 100-110  $\approx$  1.

*Hab.* ad folia emortua Myrtaceæ vel Xanthoxyloæ cujusdam in silvis pr. Apiahy Brasiliæ.

3. **Hypocrella colliculosa** Speg. F. Puigg. n. 301. — Stromatibus epiphyllis, nervisedis, subgregariis, hemisphærico-colliculosis, pallide subaurantiis, glabris, 1,5-3 mm. diam., 1-1,5 mm. cr.; peritheciis periphericis, globosis, 250-300  $\mu$ . diam., stromate immersis, plus minus prominulis; ostiolo vix papillulato; contextu carnosulo, indistincto; ascis cylindræis, apice subtruncato-rotundatis, tunica non vel vix incrassata, basi brevissime crasseque subattenuato-pedicellatis, 8-sporis, 200  $\approx$  10, aparaphysatis; sporidiis filiformibus, 200  $\mu$ . long., in articulos 5-10  $\approx$  3 secedentibus, hyalinis.

*Hab.* ad folia viva Rubiaceæ arboreæ cujusdam in silvis pr. Apiahy Brasiliæ.

4. **Hypocrella luteo-olivacea** Winter Grev. XV, p. 86. — Stromatibus subglobosis v. crasse pulvinatis, sessilibus, ramulos tenuiores conferte circumdantibus, superficialibus, facile solubilibus, sæpe mutua pressione plus minus angulatis, extus luteo-olivaceis; peritheciis parum exstantibus verrucosis, intus luteis, circ. 1-3 mm. lat.; peritheciis immersis, vertice tantum prominulis, elongato-ovoideis, in collum crassum, conicum attenuatis, 150-180  $\mu$ . lat.; ascis elongato-cylindræis, deorsum stipitiformi-attenuatis, 8-sporis, 180-200  $\approx$  9; sporidiis filiformibus, hyalinis, dense septatis et (in ascis) in articulos cylindricos, utrinque truncatos, 8-9  $\approx$  2,5 secedentibus.

*Hab.* ad ramulos emortuos S. Francisco in Brasilia (ULE). — *Epichloe Hypoxylon* Peck. sec. Cooke Grev. XIX, p. 80 non differt ab *Hypocrella atramentosa* (B. et C.) Sacc.

**COSCINARIA** Ell. et Ev. in Journ. of Myc. 1886, p. 88 (Etym. *coscinon* cribrum). — Perithecia tuberculiformia, erumpentia, membranacea, sursum multi-perforata. Asci et sporidia linearia.

1. **Coscinaria Langloisii** Ell. et Ev. in Journ. of Myc. 1886, p. 88. — Peritheciis tuberculiformibus, erumpentibus,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.,

*Hab.* ad cortices muscosos truncorum putrescentium in silvis prope Guarapi Brasiliæ.

2. **Tryblidium Abietis** Rich. Cat. Champ. Marne. Suppl. pag. 551. — 4351  
Peritheciis minutis, vix 1 mm. long., nigris, hysteriiformibus; ascis obovatis, 51  $\mu$ . long., sessilibus, 4-8-sporis, brunneis, 1-septatis, 14  $\mu$ . long.; paraphysibus parum distinctis, apice ramosis.

*Hab.* in ligno denudato Abietis, St. Amand, Marne Gallia.

3. **Tryblidium turgidulum** Phill. et Harkn. New Calif. Fungi p. 5. — 4352  
Sparsum, sessile, oblongo-ellipticum, turgidum, leviusculum, nigrum; ascis clavatis; sporidiis oblongo-ellipsoideis, uniseptatis, centro fortiter constrictis, utroque loculo 5-6-pseudoseptato, rufo-brunneis, 60-90  $\approx$  13-20.

*Hab.* in caulibus emortuis Pentastemonis breviflori in California. — *T. sabinum* De Not., Syll. II, p. 741, teste Starb. Bidr. Sver. Ascom. p. 208, t. 4 B, f. 2-3, idem est ac *Karschia Sabinæ* Rehm, Syll. VIII, p. 701, quæ *K. sabina* (De Not.) Rehm dicenda.

**LEMBOSIA** Lév. — Sacc. Syll. II, p. 741.

1. **Lembosia graphioides** Sacc. et Berl. Misc. Myc. II, pag. 6. — 4353  
Peritheciis epiphyllis, gregariis, lineari-oblongis, subinde furcatis,  $\frac{1}{2}$ - $\frac{1}{8}$  mm., atris, carinulatis; subiculo obsoleto; ascis oblongo-clavatis, sessilibus, 40-45  $\approx$  12-14, 6-8-sporis, crasse, tunicatis, paraphysatis; sporidiis distichis, inæqualiter didymis, loculo infero minori, 12-14  $\approx$  6, dilute fuliginis.

*Hab.* in foliis languidis Oleæ paniculatæ, Logan, Queensland Australiæ. — Facies *Aulographi*.

2. **Lembosia orbicularis** Wint. in Hedw. 1885, p. 29. — 4354  
Peritheciis elongatis, utrinque acutis, plerumque varie irregulariterque curvatis vel subcontortis, labiis conniventibus, subnitide atris, in maculis suborbicularibus, atris, opacis, distincte limitatis, plerumque epiphyllis, e fibrillis ramosissimis, fuscis densissime coalitis, oculo armato tantum perspiciendis formati, sæpe, confluentibus, 1-2 mm. lat., superficialibus; ascis e basi parum latiori oblongis, sessilibus, crasse tunicatis, 8-sporis, 60-70  $\approx$  19-23; paraphysibus tenuibus, ascos parum superantibus; sporidiis inordinatis, oblongo-subcylindricis, utrinque parum attenuatis et rotundatis, medio uniseptatis, subconstrictis, primo hyalinis, demum dilute fuscis, 24-26  $\approx$  8-9.

ascis cylindrico-clavatis, octosporis; sporidiis sublanceolatis, continuis, hyalinis, sæpe 2-4-nucleatis, 20-22  $\approx$  5.

*Hab.* ad corticem Rhamni in Gallia et Britannia.

2. **Bagnisiella Cercidis** (Cooke) Berl. et Vogl. Add. Syll. pag. 223, 4024

*Dothidea Cercidis* Cooke in Grev. XIII, p. 66. — Erumpens, orbicularis, hemisphærica, demum centro depressa, atra, opaca; loculis paucis; ascis clavatis; sporidiis biserialibus, elliptico-lanceolatis, continuis, hyalinis, 30  $\approx$  10.

*Hab.* in ramis *Cercidis canadensis* in Carolina Amer. bor.

3. **Bagnisiella rugulosa** Cooke Grev. XIX, p. 45. — Epiphylla v. hy- 4025

pophylla, gregaria, globosa, nigra, rugulosa,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; loculis periphericis minutis; ascis oblongis, 8-sporis; sporidiis tereti-ellipsoideis, hyalinis, 22-25  $\approx$  4.

*Hab.* in foliis *Eucalypti*, Melbourne Australiæ (MARTIN).

4. **Bagnisiella endopyria** Sacc. in Hedw. 1890, p. 155. — Stromati- 4026

bus subsuperficialibus, minutis, disciformibus, nigris, vix  $\frac{1}{2}$  mm. diam., hinc inde congestis, superficie rugulosis, coriaceis, intus albis, paucilocularibus, loculis globosis, contextu amœne igneo-aurantio, molliusculo, ostiolo exiguo pertusis; ascis clavulatis, breve stipitatis, 15  $\approx$  9-10, octosporis (?); sporidiis (immaturis) subdistichis, ovoideo-oblongis, hyalinis; paraphysibus cylindræis, ramulosis, guttulatis.

*Hab.* in foliis subvivis *Myopori platycarpi* Caromby Australiæ (TEPPER). — Stromatibus extus nigris, intus albis loculisque vivide aurantiis prædistincta species, sed ob sporidiorum immaturitatem, quoad genus non omnino certa.

5. **Bagnisiella Palmarum** Pat. Champ. N. Caled. p. 9. — Superficia- 4027

lis, libera, pulvinata, 5-8 mm. diam., extus nigra, intus rufa, carbonacea; peritheciis parum numerosis, intus albis, ostiolis prominulis; ascis clavatis, copiosis, 40  $\approx$  6-7, aparaphysatis; sporidiis hyalinis, ovoideis, rectis, 1-guttatis, 6-7  $\approx$  3-4.

*Hab.* in foliis emortuis *Palmarum* in Nova Caledonia,

**SCHWEINITZIELLA** Speg. E. Guar. II, n. 119 (Etym. ab ill. mycologo germanico-americo L. SCHWEINITZ). — Stromata superficialia subcupulato-discoidea, inferne centro papillato-adfixa, superne medio loculis nonnullis subexsertis instructa, atra, coriacea. Ascii clavulati paraphysati, octospori. Sporidia sublinearia continua, hyalina.

1. **Schweinitziella Styrcum** Speg. F. Guar. II, n. 119. — Stromati- 4028

diantibus, parum ramosis, remote septatis, fuscis; ascis oblongo-clavatis, demum in stipitem brevem attenuatis, 8-sporis,  $60-70 \approx 21-26$ ; sporidiis inordinatis seu subdistichis, oblongis, uniseptatis, ad septum constrictis, maturis fuscis,  $17-18 \approx 7-9$ ; paraphysibus filiformibus, apice plerumque bicipitibus, fuscidulis, plus minusve conglutinatis.

*Hab.* ad ramulos juniores Carissæ Arduinæ in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

6. **Lembosia diffusa** Wint. in Hedw. 1885, p. 30, Sacc. et Berl. in 4358  
Rev. Myc. 1885, t. LIV, f. 9. — Mycelio in maculis purpureo-fuscis, indeterminatis, epiphyllis radiatim effuso, e fibris laxè ramosis, ramis primariis distantibus, ramulis tenuioribus numerosis, intricatis præditis constante, maculas fusco-atras, rotundatas v. irregulares, usque 10 mm. latas formante; peritheciis sparsis, præcipue centro macularum insidentibus, primo punctiformibus, demum elongatis, lanceolatis, utrinque acutis, plerumque rectis, opacis, atris, labiis conniventibus, basi hyphis radiantibus cinctis; ascis subglobosis vel ellipticis, sessilibus, 8-sporis,  $45-65 \approx 30-38$ ; paraphysibus filiformibus, sursum subclavatis; sporidiis conglobatis, oblongis, utrinque rotundatis, medio uniseptatis constrictisque, fuscis,  $20-28 \approx 12$ .

*Hab.* ad folia viva Melastomacearum speciei adhuc indeterminatæ, prope S. Francisco in Brasilia (E. ULE). — «Subinde hyphæ mycelii adsunt taxiformi-ramosæ, qua nota ad *Lembosiam Melastomatium* accedit, a qua specie tunc verisimiliter *L. diffusa* Wint. non satis differt».

7. **Lembosia? Puiggarii** Speg. F. Paigg. n. 375. — Mycelio vix maculoso-nubiloso, 3-8 mm. diam., ex hyphis irregulariter ramulosis, 5-6  $\mu$ . cr., hyphopodiis hemisphæricis, alternis, 8  $\mu$ . cr., donatis, composito; peritheciis laxè gregariis, ellipticis, non fimbriatis,  $150-300 \approx 80-150$ ; ascis piriformibus,  $30-40 \approx 20-35$ , aparaphysatis; sporidiis clavulatis, fuligineis, 1-septatis,  $24-28 \approx 8-9$ , loculo supero  $10 \approx 9$ , infero  $14-16 \approx 7-8$ .

*Hab.* ad folia coriacea viva plantæ cujusdam ignotæ pr. Apiahy Brasiliæ.

8. **Lembosia Litoræ** (Cooke) Sacc., *Aulographum Litoræ* Cooke in 4360  
Grevillea XII, p. 38. — Epiphyllum; maculis orbicularibus, fuscis; peritheciis linearibus, curvulis rectisve, atris, in maculis insidentibus, labiis conniventibus; ascis saccatis; sporidiis biglobosis, uniseptatis, fuscis,  $7,5 \approx 3,5$ .

tivis, globoso-diformibus, 120-150  $\mu$ . diam.; ascis primo cylindraceis, dein saccato-clavatis, 80-100  $\times$  15-26, deorsum modice stipitatis, 8-sporis, subapophysatis; sporidiis recte, oblique v. transverse 1-stichis, rarius 2-distichis, late ellipticis, mucro obvolutis, dein nudis, hyalinis, 16-18  $\times$  8-9.

*Hab.* ad folia (parvula, ovata, imparipinnata) viva Leguminosæ arboreæ cujusdam in silvis pr. Apiahy Brasilæ.

2. **Phyllachora Lespedezæ** (Schw.) Cooke in Grevillea XIII, pag. 63, *Sphæria Lesp.* Schw. Syn. Amer. p. 400, Sacc. Syll. II, p. 400. — Ascis clavati; sporidia elliptica, continua, hyalina, 20  $\times$  10.

3. **Phyllachora Dalbergiæ** Niessl — Syll. II, p. 594. — Var. **macrasca**. 4032  
Cfr. Rehm Ascom. n. 923. — Ascis clavato-ellipsoideis, 100-120  $\times$  27, octosporis; sporidiis oblongis v. subclavatis, 15-18  $\times$  8, distichis; paraphysibus ramulosis, guttulatis, 2  $\mu$ . cr.

*Hab.* in foliis Dalbergiæ variabilis, Sao Francisco Brasilæ (ULE).

4. **Phyllachora Michellii** Speg. F. Guar. II, n. 105. — Maculis nullis 4033  
v. vix pallescentibus, indeterminatis; stromatibus minutis, e globosconoideis, 200-250  $\mu$ . diam., matrici innatis, ad epiphyllum papillato-prominulis, ad hypophyllum non v. vix prominulis v. fusco-perspicuis, subcarbonaceis, atris, glabris, subnitentibus, hinc inde irregulariter v. seriatim v. concentrice laxe gregariis, 1- v. rarius 2-3-ocularibus; ascis cylindraceis, apice obtuse rotundatis, basi breviter crassiusculeque pedicellatis, 90-100  $\times$  9-10, parce paraphysatis, 8-sporis; sporidiis recte v. oblique monostichis, e globoso ellipticis, utrinque obtusis, 10  $\times$  8-9, hyalinis,

*Hab.* ad folia viva Mimosæ procurentis in herbosis silvæ Caà-guazù Brasilæ. — Species etiam ad *Physalosporum* vergens stromatibus 1-ocularibus, sed eorum natura vere dothideacea.

5. **Phyllachora Enterolobii** Speg. F. Guar. II, n. 101. — Maculis nul- 4034  
lis; stromatibus confertiuscule sparsis v. hinc inde 2-3-subaggregatis, matrici innatis, sæpius hypophyllis, lenticulari- v. subconoido-pulvinulatis, minutis, 300-500  $\mu$ . diam., glabris, præcipue centro nitentibus, subcarbonaceis, contextu indistincto, 1- rarius 2-3-ocularibus, albo-farctis, per ætatem vertice rimosulis, loculis globosis vel e mutua pressione difformibus, 100-180  $\mu$ . diam., sæpe confluentibus; ascis subcylindraceis, apice obtuse rotundatis crassiusculeque tunicatis, deorsum breviter attenuato-pedicellatis, 60-70  $\times$  10-12, 8-sporis densiuscule paraphysatis; sporidiis recte vel oblique distichis, ellipticis, utrinque obtusiusculis, 14-16  $\times$  6, hyalinis.

hyalinis, fusoides, 15-18  $\approx$  6, 1-septatis, dein oblongis obtusioribus, brunneo-olivaceis, 19  $\approx$  9, ad septum constrictis, loculis leniter inæqualibus; paraphysibus ascos paullo superantibus, apicibus rotundatis, chlorinis.

*Hab.* in ramulis tenellis emortuis Rhododendri pontici, Tervueren Belgii. — Subiculo subnullo et sporidiis diu hyalinis ad *Aulographum* vergit.

14. **Lembosia lirelliformis** (Cooke) Sacc. *Aulographum lirelliforme* 4366

Cooke Trans. Roy. Soc. Edin. 1887, pag. 393. — Lineata, minuta, sparsa; peritheciis corneo-membranaceis, tenuibus, 1 mm. long., 0,2 mm. lat., labiis arcte conniventibus, atris; ascis saccatis, 80  $\approx$  30 octosporis; sporidiis ellipticis, uniseptatis, profunde constrictis, fuscis, 20  $\approx$  10; paraphysibus superne brunneis.

*Hab.* in ligno in insula Socotra.

15. **Lembosia globulifera** Pat. Journ. Bot. 1890, p. 65, f. 9. — Ma- 4367

culis epiphyllis, nigricantibus, tenuissimis, mycelio parco, brunneo ex hyphis, 5  $\mu$ . lat., ramosis, hinc inde in nodulos subgloboso-ovoideos, brunneos, grosse 1-guttatos, 10  $\approx$  12, incrassatis formato; peritheciis numerosis, brunneis, ovoideis, valde applanatis, ambitu parum distincto, rima longitudinali dehiscentibus, 0,9-1 mm. long., 0,5-0,6 mm. lat.; contextu tenui, ex hyphis parallelis formato; ascis subglobosis, 45  $\approx$  40, octosporis; sporidiis elongatis, utrinque rotundatis, 1-septatis, ad septum constrictis, 2-guttatis, diu hyalinis, dein brunneis, 30  $\approx$  10-13.

*Hab.* in foliis vivi Calami, Mons Bavi in Tonkin Asiæ orient.

16. **Lembosia orbicularis** Pat. Journ. Bot. 1889, p. 168. — Perithe- 4368

ciis epiphyllis, elongatis, utrinque obtusis, nigris, opacis, rima longitudinali dehiscentibus, in centro maculæ orbicularis, brunneæ, 3-4 mm. diam., radiato-fibrillosæ, 3-8-gregariis; ascis ovoideis, obtusis, membrana crassa, 50  $\approx$  20; sporidiis octonis, utrinque rotundatis, 1-septatis ad septum constrictis, brunneis, 12-15  $\approx$  5-6.

*Hab.* in foliis Dracænæ, Zanzibar Africæ orient. — Maculæ sparsæ vel in series elongatas confluentes aut crustas pelliculosas efformantes.

Sect. 5. Phæophragmiæ.

**HYSTERIUM** Tode. — Sacc. Syll. II, p. 743.

1. **Hysterium Eucalypti** Phill. et Harkn. in Grevillea XIII, p. 23. — 4369

Sparsum vel gregarium, 500  $\mu$ . long., minutum, ellipticum, raris-



*Hab.* ad folia viva *Bignoniæ* speciei cujusdam in dumetis pr. Guarapì et Paraguari Brasiliæ.

9. **Phyllachora tenuis** Speg. Fungi Guar. Pug. I, n. 278. — Macu- 4038  
 lis nullis v. vix manifestis, indeterminatis, pallescentibus; stromatibus sparsis, epiphyllis, bullose prominulis, minutis, 200-400  $\mu$ . d., innatis, tenuissimis, extus atris, glabris non v. vix subnitentibus, intus albis; loculis minutis, 120-150  $\mu$ . diam., dense constipatis, ostiolo subimperspicuo nucleoque albo donatis; ascis cylindracois v. cylindraco-clavatis, antice rotundatis crasseque tunicatis, postice attenuato-pedicellatis, 70-75  $\approx$  10; paraphysibus parum manifestis, subfluxilibus obvallatis, 8-sporis; sporidiis elliptico-navicularibus, curvulis, utrinque plus minusve acutato-rotundatis, 10-13  $\approx$  4-4,5, intus granulosis v. crasse 1-guttulatis, hyalinis.

*Hab.* ad folia viva *Bignoniaceæ* cujusdam in silvis subvirgineis prope Ibitimis Brasiliæ. — Sporidia ac postremo excentrice 1-septata? An forma juvenilis *Munkiellæ*?

10. **Phyllachora nitidula** Pat. Bull. Soc. Myc. 1888, p. 117. — Stro- 4039  
 matibus hypophyllis, crustas nigras, minutas, irregulares, sparsas v. confluentes, margine rotundatas v. incisas, interdum orbe decolorato cinctas, efformantibus; loculis numerosis, intus albis; ascis fusoides, apice truncatis, basi attenuato-stipitatis, 80-100  $\approx$  12, paraphysatis; sporidiis octonis, distichis, continuis, ovoideis, utrinque obtusis v. acutis, 10-12  $\approx$  4-6, hyalinis.

*Hab.* in foliis languidis *Bignoniæ*? inter Atures et Maipures Venezuelæ.

11. **Phyllachora Guatteriæ** (Berk.) Cooke in Grevillea XIII, p. 68, 4040  
*Dothidea Guatteriæ* Berk. in Herb. n. 9082. — Amphigena; stromate convexo, atro, nitido, 5 mm. diam.; ascis clavatis; sporidiis biseriatis, ellipticis, continuis, hyalinis 16-18  $\approx$  8.

*Hab.* in foliis *Guatteriæ*, Ceylon.

12. **Phyllachora Balansæ** Speg. Fung. Guar. Pug. I, n. 260. — Macu- 4041  
 lis majusculis, 5-20 mm. diam., expallentibus, sæpe confluentibus, indeterminatis, stromatibus matrice innatis, parvulis, globulosis, 120-250  $\mu$ . d., in maculis irregulariter suborbiculatim dispositis, densiuscule aggregatis, non v. rarius 2-3-confluentibus, utrinque prominulo-exsertis, superne subpapillulatis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo-farctis, ad epiphyllum ostiolo minuto non v. vix prominulo donatis; ascis cylindracois v. obclavato-cylindracois (rarissime saccato-clavatis, 50  $\approx$  14, cum spo-

sporidia 7-9-septata, 45-50  $\approx$  15, non murali-divisa, hinc non *Hysterographium*.

**TRYBLIDIELLA** Sacc. Syll. II, p. 757.

1. **Tryblidiella clavispora** (Peck) Berl. et Vogl. Add. Syll. pag. 267. 4374

*Tryblidium clavæsporum* Peck 35 Rep. St. Mus. Bot. 1884, p. 143.

— Peritheciis suborbicularibus, planis v. leniter convexis, marginatis, 800-1000  $\mu$ . diam., nigris, quandoque siccis v. contractis, hysteriiformibus labiisque clausis; ascis clavatis v. cylindraceutis, 85-110  $\mu$ . long.; sporidiis oblongo-clavatis stipatis vel biseriatis, 4-septatis, 23-27  $\approx$  8-10, fuscis.

*Hab.* in ligno decorticato Salicis nigræ, Albany Amer. bor.

2. **Tryblidiella Steigeri** (Duby) Rehm Revis. Hyst. pag. 29, *Hyste-* 4375

*rium Steigeri* Duby in herb. — Peritheciis erumpentibus, primitus hysterioideis, nigris, 3 mm. longis, 1 mm. lat., dein subcurvatis, sæpe stelliformibus, 8 mm. long., 1-3 mm. lat., labiis primitus arcte conniventibus, longitudinaliter haud transverse striatulis; ascis cylindraceutis octosporis; sporidiis monostichis, oblongis, obtusis, rectis vel subcurvatis haud constrictis, 3-4-septatis, fuscis, 30  $\approx$  10-12; paraphysibus filiformibus (?) apice septatis, et subfuscis, 3-5  $\mu$ . cr.

*Hab.* ad cortices in vicinia urbis Paranagua Brasiliæ.

3. **Tryblidiella Balansæ** Speg. F. Guar. II, n. 142. — Peritheciis hinc 4376

inde laxè subgregariis vel sparsis, per epidermidem fissam erumpentibus, crassiuscule pulvinulatis, submajusculis, 1,5-2 mm. long., 0,7-1 mm. cr. et alt., ellipticis vel subtrigonis, apicibus acutiuscule rotundatis, superne convexulis, labiis rotundatis involutisque primo conniventibus, dein latiuscule apertis, inferne modice coarctatulis, atris vel rufescenti-atris, glabris, levibus, opacis, corneo-durissimis in sicco, udis molliusculis, subelasticeis, disco sordide rufescente vel subolivascete donatis; contextu subparenchymatico, extus olivaceo-atro, intus pallescente; ascis cylindraceutis, sursum rotundatis, tunica vix incrassata vestitis, deorsum breviter crasseque attenuato-pedicellatis, 200  $\approx$  15, 6-8-sporis, paraphysibus densis, apice incrassatulis, subcoalescentibus obvallatis; sporidiis rectè monostichis, ellipticis vel elliptico-obovatis, 3-septato-constrictulis, ad septum medium sæpius validius, loculo tertio supero crassiore ac rarissime, septulo altero verticali diviso, utrinque acutiuscule rotundatis, 27-30  $\approx$  12-14, rectis v. vix subcurvulis.

*Hab.* ad ramulos dejectos putrescentes in silvis densioribus pr.

lato-rotundatis v. oblongis v. irregularibus, applanatis, crustiformibus, atris, opacis, rugulosis, ab ostiolis peritheciolorum punctulato-verruculosis, circ. 1 mm. long.,  $\frac{1}{2}$  mm. lat.; peritheciis in quoque stromate pluribus, confertis, immersis, globosis, ostiolo papilliformi in stromatis superficie prominentibus, circ. 140  $\mu$ . lat.; ascis cylindræis, utrinque, deorsum autem magis, attenuatis v. cylindrico-clavatis, breviter stipitatis, apice truncatis, 8-sporis, 90-106  $\approx$  10,5-14; sporidiis ellipsoideo-cymbiformibus, utrinque acutiusculis, parum inæquilateralibus, continuis, hyalinis, 14  $\approx$  4,5.

*Hab.* ad folia viva *Xanthoxyli* in Brasilia (ULE).

17. **Phyllachora brasiliensis** Speg. Cfr. Syll. II, pag. 559, Speg. F. 4045 Puigg. n. 315.

*Hab.* ad folia viva *Myrtaceæ* v. *Xanthoxyleæ* cujusdam in silvis pr. *Apiahy* Brasiliæ merid. — Maculæ nullæ; stromata ad hypophyllum foveolâ impressâ manifesta, ad epiphyllum innato-superficialia, pulvinulata, irregulariter ellipsoidea v. sublinearia, 1-2 mm. long., 0,5 mm. lat., nervationibus secundariis, pinnatis, parallela, densiuscule sparsa, determinata, dense colliculoso-granulata, per ætatem irregulariter rimosa; loculi immersi, globulosi, 150-200  $\mu$ . diam., prominuli, ostiolo impresso minutissimo perforati; asci e clavato v. subfusoido cylindræi, 80  $\approx$  18; sporidia oblique monosticha, rarissime recte disticha, 14-16  $\approx$  10, eguttulata, primo strato diffluente, mucoso, concolore cincta, hyalina, dein nuda, obsoletissime fumosa. *Ph. Astronii* nec non *Ph. tropicali* affinis, ab utraque tamen satis distincta.

18. **Phyllachora Guavira** Speg. F. Guar. II, n. 103. — Maculis nul- 4046  
lis, stromatibus matrici innatis, utrinque manifestis, ad epiphyllum *Campomanesia*  
maculiformibus, non prominulis, irregulariter expansis, determinatis, fusco-atris, levibus, vix subrugulosis, ad hypophyllum crassissime pulvinatis, 1-5 mm. diam., 0,5 mm. cr., applanatis, ambitu irregulariter repandis, abrupte subacuteque truncato-marginatis, rarissime effuso-confluentibus, subimperspicue punctulatis, atris, glabris, subopacis, coriaceis, intus quoque atris, multilocularibus, contextu parenchymatico-celluloso, atro; loculis globulosis, confertiusculis, 200-250  $\mu$ . diam., albo-farctis, in parte hypophyllica stromatis erumpenti-papillulosis v. impressis; ascis cylindræis, apice subtruncato-rotundatis et subcrassiuscule tunicatis, deorsum breviter attenuato-pedicellatis, 100-110  $\approx$  6-8, octosporis, paraphysatis; sporidiis recte, rarius suboblique monostichis, cylindræis, utrinque rotundatis, 12  $\approx$  5, non v. grosse 1- vel 2-guttulatis, hyalinis.

**intricatissimum** Karst. Fung. Fenn. atque Sib. in Medd. Soc. pro Faun. et Flor. fenn. II, 1884, p. 141 et Rev. Mon. p. 103. — Peritheciis superficialibus, sessilibus, elongatis, flexuosis, in cæspites rotundatos, magnos, 1-2 cm. latos, varie connatis, carbonaceis, fragilibus, subopacis, leviusculis, atris, rimula angusta.

*Hab.* in cortice radicis *Abietis excelsæ* in monte Hidenvaara par. Kuhmo Fennicæ (WAINIO).

2. **Mytilidion insulare** Sacc. in Barbey Fl. Sard. Comp. pag. 246. — 4381  
Peritheciis dense, parallele gregariis, mytiliformibus, acutiuscule carinatis et angustissime rimosis, atris, basi leniter coarctatis,  $\frac{3}{4}$ -1 mm. long.,  $\frac{1}{4}$  mm. crass., carbonaceis; ascis tereti-clavatis, breve stipitatis, 70-80  $\approx$  14-15, paraphysatis, 8-sporis; sporidiis distichis, tereti-fusoideis, utrinque obtusis, rectiusculis, 22-25  $\approx$  5,5-6,5, 5-6-septatis, ad septa vix constrictis, ochraceo-fuligineis.

*Hab.* in ligno superficie atrato, induratoque prope Cagliari Sardinicæ (MARCUCCI). — Affine *M. aggregato*, sed sporidiis obtusis, 5-6-septatis (nec 3-septatis) mox distinctum.

3. **Mytilidion Juniperi** E. et E. Journ. Myc. 1888, p. 57. — Peritheciis gregariis, circ. 1 mm. long., utrinque ovatis, labiis conferte compressis, longitudinaliter striatis, submicantibus; ascis cylindraceis, circ. 100  $\approx$  7, copiose paraphysatis; sporidiis monostichis, oblongis, brunneis, 3-septatis, 12-15  $\approx$  4-5. 4382

*Hab.* in cortice exteriori *Juniperi virginianæ*, Newfield, New Jersey Amer. bor.

### Sect. 6. Hyalophragmiæ.

**GLONIELLA** Sacc. Syll. II, p. 765.

1. **Gloniella Scortechiniana** Sacc. et Roum. in Rev. Myc. 1883, t. 41, f. 17. — 4383  
Peritheciis gregariis, sæpius parallele seriatis, elongatis, sæpius rectis, depressis, carbonaceis, nigris, vix 1 mm. longis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. latis, rima angusta dehiscentibus; ascis cylindræis, 100  $\approx$  10, breve stipitatis, paraphysatis, octosporis; sporidiis oblique 1-stichis, ellipsoideo-oblongis, utrinque rotundatis, 16-18  $\approx$  7, 3-septatis, ad septa constrictis, hyalinis.

*Hab.* in ligno putri quercino (?). — *Gloniellæ ovatæ* et *G. hyalinæ* affinis species.

2. **Gloniella strychnicola** Pat. Bull. Soc. Myc. 1888, p. 119. — Peritheciis sparsis, linearibus, elongatis, 2-3 mm. long., 1 mm. cr., rectis vel undulatis, utrinque obtusis, nigris, pruina alba vestitis, 4384

tis, nucleo albo farctis; ascis cylindraceo-subfusoides, antice truncato-rotundatis crassissimeque tunicatis, luce refracta 1-foveolatis, postice attenuato-pedicellatis, p. sp.  $50 \approx 10$ , ped. 20, 8-sporis, paraphysibus filiformibus laxissime obvallatis; sporidiis ellipticis, utrinque rotundatis v. plus minusve obtusatis,  $12 \approx 5$ , non v. crasse 1-guttulatis, in ascis oblique monostichis v. distichis.

*Hab.* ad folia, petiolos nec non ramulos Sapindaceæ speciei cujusdam in silvis prope Guarapî.

23. **Phyllachora subrepens** Speg. F. Puigg. n. 323. — Stromatibus 4051  
epiphyllis, minutis, subramosulis, sæpe circinatis ac confluentibus, atris, nitentibus, 0,5-1,5 mm. diam.; loculis 1-3 in quoque stromate, 150-200  $\mu$ . diam.; ascis subclavulatis, 85-90  $\approx$  12-16, paraphysatis; sporidiis ellipsoideis, hyalinis, 16-18  $\approx$  8-9.

*Hab.* ad folia viva Sapindaceæ cujusdam in dumetis prope Apiahy Brasiliæ. — Species habitu *Ph. repenti* simillima, sed cum speciminibus nicaraguensibus comparata, satis distincta videtur.

24. **Phyllachora Melianthi** (Thüm.) Sacc., *Rhytisma Melianthi* Thüm. 4052  
Fl. 1876, p. 569, M. U. n. 1267. — Stromatibus pulvinato-depressis, amphigenis, gregariis, subsuperficialibus, atro-nitentibus; loculis parvis, pallidioribus, leviter mammilloso-prominulis; ascis anguste clavatis, apice acutiusculis, 60  $\approx$  20, octosporis; sporidiis ellipsoideis, apicibus rotundatis, 10  $\approx$  6, pellucidis, hyalinis; paraphysibus filiformibus, 60-80  $\mu$ . longis.

*Hab.* in foliis languidis Melianthi majoris, Grahamstown pr. prom. Bonæ Spei Afr. austr. (MAC OWAN). — Vera *Phyllachora* nec *Rhytisma*.

25. **Phyllachora aspideoides** Sacc. et Berl. in Rev. Myc. 1885, t. LIV, 4053  
f. 7. — Picea; stromate orbiculari, applanato, maculis foliorum luteis insito, loculis minutis, vix prominulis; ascis cylindraceis breve stipitatis, aparamphysatis, 100-110  $\approx$  12-14; sporidiis oblique monostichis, ovoideis, crasse uniguttatis, continuis, 20  $\approx$  10, hyalinis.

*Hab.* in pagina inf. foliorum Fici..... Santos Brasiliæ. — *Ph. aspideæ* peraffinis, a qua ascis apice rotundatis differt. An satis?

26. **Phyllachora infectoria** Cooke in Grevillea XIII, p. 63. — Epi- 4054  
phylla; stromatibus pulvinatis, convexis, irregularibus, confluentibus, atris, nitidis, loculis immersis, numerosis, ostioliis obscuris; ascis clavato-cylindraceis; sporidiis ellipticis, continuis, hyalinis, 12  $\approx$  5.

*Hab.* in foliis Fici infectoriæ, Ceylon.

*Hab.* in rimis ramorum putrescentium *Pernettiæ mucronatæ* in Burnt island Fuegiæ.

5. **Gloniella pyrenaica** Rehm Rev. Hyst. Dub. p. 34. — Peritheciis 4387  
in maculis ligni denigratis immersis, sparsis, rectis, 2-3 mm. longis,  $\frac{1}{4}$  mm. latis; ascis clavatis,  $70 \approx 15$ ; sporidiis octonis, distichis, fusiformibus, subacutis et subcurvatis, hyalinis, 4-cellularibus,  $18 \approx 5$ ; paraphysibus ramosis, fuscidulis.

*Hab.* ad lignum *Loniceræ Periclymeni*, S. Antoine de Galamus Pyren. or.

6. **Gloniella Stenogramma** (Dur. et Mont.) Rehm Rev. Hyst. Dub. p. 5, *Hysterium Stenogramma* Duby Sacc. Syll. II, p. 747. — Sporidia clavata, hyalina, recta, obtusa, 3-septata,  $10-12 \approx 4-4,5$ ; paraphyses ramosæ, ascos obovatos, sessiles, crasse tunicatos,  $36 \approx 24$  obvallantes.

7. **Gloniella syconophila** (Cooke) Berl. et Vogl. Add. Syll. pag. 269, 4388  
*Hysterium syconophyllum* Cooke in Grevillea XIV, pag. 14. — Peritheciis gregariis, lanceolatis, rectis vel flexuosis, atris, emergentibus, rimula longitudinali, angusta notatis; ascis subclavatis, octosporis; sporidiis sublanceolatis, multinucleatis, demum quinque-septatis, hyalinis,  $36-40 \approx 8-10$ .

*Hab.* in corticibus vivis *Fici Caricæ* in Carolina inf. (RAVENEL).

8. **Gloniella Hakeæ** Penz. et Sacc. Funghi Mort. p. 8, t. IV, f. 3. — 4389  
Peritheciis laxè gregariis, minutissimis, superficialibus, sæpius duobus v. tribus conglutinatis, ellipticis, aterrimis rima longitudinali apertis; ascis saccato-clavatis, dense congestis, brevissime et crasse stipitatis,  $25-28 \approx 9-11$ ; paraphysibus filiformibus, apicè vix incrassatis, ascos æquantibus; sporidiis octonis, inasco distichis, oblongis, utrinque rotundatis, triseptatis vel 4-guttulatis, ad septa vix constrictis,  $12-14 \approx 3-3,5$ , hyalinis.

*Hab.* in foliis delapsis, putrescentibus *Hakeæ eucalyptoidis*, Mortola Liguriæ (PENZIG). — Affinis *Glon. perexiguæ*, a qua præcipue sporidiorum forma magnitudineque ascorum distinguenda.

9. **Gloniella fuispora** Sacc. et Paol. Myc. Malac. p. 15, t. III, f. 3. 4390  
— Peritheciis superficialibus ex ovato oblongis, e membranaceo carbonaceis, convexo-applanatis, nigris, nitidulis, vix  $\frac{1}{2}$  mm. long., rima tenuissima percursis; ascis obclavatis, brevissime stipitatis, filiformi-paraphysatis, 8-sporis,  $120-130 \approx 20$ ; sporidiis distichis, fusoides, utrinque acutis, leniter curvis, initio 8-guttatis, denique 7-septatis, non v. vix constrictis, hyalinis.

in dumetis prope Guarapí Brasilæ. — Sporidia an primo strato mucoso, tenui obvoluta?

31. **Phyllachora dispersa** Speg. F. Puigg. n. 318. — Maculis nullis; 4059 = *P. Spegarii*  
stromatibus 1-3-ocularibus, minutis, amphigenis, sparsis, atris, nitentibus ad epiphyllum applanatis, ad hypophyllum colliculoso prominulis, 0,5-1 mm. diam., levibus; loculis globosis, 200-250  $\mu$ . d., albo-farctis; ascis subcylindræis v. subfusoides, deorsum breviter attenuato-pedicellatis, 90-110  $\approx$  10-14, non vel parcissime paraphysatis; sporidiis recte vel oblique monostichis, ellipsoideis vel subcylindræo-ellipsoideis, utrinque obtusiuscule rotundatis, continuis, initio sæpius tenuissime muco obvolutis, hyalinis, 12  $\approx$  5.

*Hab.* ad folia viva Hireæ cujusdam in silvis prope Apiahy Brasilæ.

32. **Phyllachora Sororcula** Speg. F. Guar. II. n. 109. — Maculis nullis; 4060  
stromatibus sparsis, epiphyllis, angulosis, minutis, 1-3 mm. diam., pulvinatis, rugoso-verrucosis, matrici innatis, ad hypophyllum imperspicuis, atris, subcarbonaceis, contextu indistincto, 3-6-ocularibus; loculis e mutua pressione difformibus, 150-180  $\mu$ . d., albo-farctis; ascis subcylindræis, apice subtruncato-rotundatis, basi modice attenuato-pedicellatis, 100-120  $\approx$  10-14, octosporis, mox diffluentibus, dense paraphysatis; sporidiis recte, oblique vel transverse monostichis, cylindræis vel cylindræo-ellipticis, rectis, utrinque obtuse rotundatis, 12-14  $\approx$  5-7, granuloso-farctis, hyalinis.

*Hab.* ad folia viva Lantanæ cujusdam in dumetis prope Paraguari Brasilæ. — Species notis per plurimis *Phyl. Astronii* et *Phyl. rhytismoidi* affinis sed cum speciminibus comparata ab utrisque satis differre videtur.

33. **Phyllachora Taruma** Speg. Fungi Guar. Pug. I, n. 264. — Maculis 4061  
epiphyllis plus minusve manifeste expallentibus v. fusciscentibus, indeterminatis; stromatibus parvulis, subglobosis v. lenticularibus, 300-450  $\mu$ . diam., in maculis irregulariter densiusculeque sparsis, sæpe confluentibus, matrice immersis in hypophyllo prominulo-exsertis, in epiphyllis non papillulatis sed epidermide punctiformi-nigrefacta adnato-tectis, glabris, subrugulosis, atris, opacis v. vix subnitentibus, carbonaceis, coriaceis, contextu indistincto; loculis 2-3 in quoque stromate e mutua pressione difformibus, 150-200  $\mu$ . diam. nucleo albo gelatinoso farctis, ostiolis discretis vel fasciculatis ad epiphyllum vergentibus donatis; ascis cito diffluentibus, cylindræis v. cylindræo-subclavatis, apice rotundato-truncatis, deorsum breviter crasseque attenuato-stipitatis, 65-70  $\approx$  10,

14. **Gloniella byssiseda** (Crouan) Sacc. Syll. II, pag. 767, Malbr. in Bull. Soc. Myc. 1888, p. XXXIII. — Perithecia ovoideo-subspærica, conferta, depressa, mycelio filamentoso brunneo insidentia; asci cylindranei,  $95 \approx 9-10$ ; sporidia disticha, 1-3-septata, 4-guttata, subhyalina, medio subconstricta,  $13-20 \approx 5-6$ . In ramis Coryli, Normandia.

15. **Gloniella Moliniæ** (De Not.) Sacc. Syll. II, p. 768. — Sec. Rehm Ascom. n. 868, sunt perithecia viridula; asci  $75-90 \approx 12-14$ , octospori, paraphysati, fusoido-clavati; sporidia oblongo-clavulata, demum 3-septata,  $18-27 \approx 4-4,5$ , hyalina.

**PSEUDOGRAPHIS** Nyl. — Syll. II, p. 769.

1. **Pseudographis buxicola** Passer. Diagn. I, n. 74. — Peritheciis per epidermidem emergentibus, sessilibus, atris, rectis v. curvis, labiis distantibus, tenuibus, integris v. eroso-crenulatis, disco atro, anhistis; ascis clavatis, basi attenuato-stipitatis; paraphysibus filiformibus obvallatis,  $63-75 \approx 12$ ; sporidiis distichis, ovali-oblongis, subfusiformibus, 5-pluriseptatis, hyalinis,  $22-25 \approx 7,5-8$ .

*Hab.* in cortice viridulo ramulorum Buxi sempervirentis, Vigheffio pr. Parmam Ital. bor.

**DICHÆNA** Fr. — Syll. II, p. 771.

1. **Dichæna faginea** (Pers.) Fr. — Syll. II, p. 771. — Var. **Capreæ** Rehm Disc. pag. 51. — Peritheciis in maculas rotundas, pallidas gregariis, immersis, per epidermidem erumpentibus, rotundis, dein elongatis, obtusis, membranaceis, nigris, rugosis,  $\frac{1}{2}$  mm. long.,  $\frac{1}{4}-\frac{1}{3}$  mm. lat., ostiolo primo rotundo, dein elongato, marginibus inæqualibus, sejunctis; ascis fusoidis, late insidentibus,  $90-95 \approx 30-35$ , octosporis; sporidiis elongato-ellipsoideis, obtusis, continuis, primo late 1-guttatis, dein minute granulosis, hyalinis,  $27-30 \approx 12-14$ ; paraphysibus filiformibus,  $2,5 \mu$ . cr., supra brunneolis.

*Hab.* in cortice Salicis Capreæ vivæ in Austria infer. — Sporidia in asco demum tantum 3-4 matura. «Si sporidia jugiter continua, haud *Dichæneæ* species».

#### Sect. 7. Hyalodictyæ.

**GLONIOPSIS** De Not. — Sacc. Syll. II, p. 773.

1. **Gloniopsis biformis** (Fr.) Sacc. Syll. II, p. 773. — Var. **provecta** Karst. in Hedw. 1884, p. 19 et Rev. Mon. p. 100. — A typo dif-



matum vere Dothideacea; sporidia per ætatem facillime 1-septata et tandem generi *Dothidellæ* forte adscribenda.

36. **Phyllachora japonica** Cooke et Mass. XIX, p. 7. — Erumpens, 4064  
oblonga v. confluens, 1-2 mm. diam., grisea, convexo-applanata, tenuis; loculis minutis, immersis, nec prominulis; ascis cylindraceis; sporidiis uniserialibus, ellipticis, continuis, hyalinis, 7-8  $\approx$  4.

*Hab.* in caulibus *Vaccinii japonici*, Patung District in regione sinensi (Dr. A. HENRY). — Habitus *Botryosphæricæ Dothideæ*.

37. **Phyllachora Sinik-Lagaraik** Speg. Fungi Guar. Pug. I, n. 273. — 4065  
Maculis nullis; stromatibus epiphyllis non vel vix ad hypophyllum manifestis, orbicularibus, 300-700  $\mu$ . diam., lenticulari vel subconoideo-pulvinatis, glabris, levibus, atris, satis nitentibus, sparsis v. rarius confluentibus, 2-4 mm. diam., carbonaceis, contextu indistincto; loculis 1-4 in quoque stromate, gyroso-angulosis, 100-150  $\mu$ . diam. nucleo albo fartis; ascis cylindraceo-obclavatis, antice rotundato-truncatis, postice breviter attenuato-pedicellatis, 65-72  $\approx$  11-13; paraphysibus filiformibus, densis obvallatis, octosporis; sporidiis oblique vel transverse monostichis, ellipticis, utrinque rotundato-subtruncatis, 11-12  $\approx$  7-8, granuloso-fartis, hyalinis.

*Hab.* ad folia viva *Myrsines floribundæ* in dumetis pr. Guarapí Brasilæ. — Sub nomine *Sinik-lagaraik* (trad. litt. *pestis nigra*) incolæ barbari omnes morbos foliorum plantarum indicant.

38. **Phyllachora peribebuyensis** Speg. Fungi Guar. Pug. I, n. 274. 4066  
— Maculis orbicularibus, densiuscule sparsis amphigenis, subdeterminatis, centro arescenti-fulvescentibus, fusco- vel purpureo-areolatis, 3-4 mm. diam.; stromatibus hypophyllis in centro macularum solitariis, rarius 2-3-aggregatis, lenticularibus vel globulosis, parvulis, 0,5-1 mm. diam., superne applanatulis, inferne a matrice liberis, vix centro subpedicellato-adnatis, convexulis, glabris non vel minutissime rugulosis, atris, cortice subcarbonaceo, pulpa subcarnosula, olivaceo-fuliginea donatis, contextu indistincte parenchymatico-celluloso, loculis in disco supero dense constipatis, globulosis vel e mutua pressione angulosis, 150-250  $\mu$ . diam., nucleo albo fartis; ascis cylindraceis, antice rotundatis, postice longiuscule attenuato-pedicellatis, p. sp. 80-90  $\approx$  9-11, octosporis, paraphysibus filiformibus, simplicibus, densiusculis obvallatis; sporidiis oblique monostichis, ellipticis, utrinque acutiuscule rotundatis, 15-18  $\approx$  6-8, primo granuloso-fartis, dein crasse 1-guttulatis, hyalinis vel dilutissime olivascentibus.

8-sporis; sporidiis subdistichis, oblongo-ovalibus, 3-septatis, loculis septo longitudinali divisis, hyalinis,  $12,5 \approx 5$ .

*Hab.* in ligno querneo, Vigheffio pr. Parmam Ital. bor.

7. **Gloniopsis Cisti** Rehm Rev. Hyst. Dub. p. 13, *Hysterographium* 4403  
Rehm Disc. p. 18. — Peritheciis sessilibus, elongatis, subobtusis, rectis vel subcurvatis, atris, medio subtiliter rimosis,  $1-2\frac{1}{2}$  mm. longis,  $\frac{1}{2}$  mm. lat.; ascis clavatis, crassis, octosporis,  $90 \approx 15$ ; sporidiis distichis, ellipsoideis, medio subconstrictis, transverse 5-septatis, cellulis mediis, imprimis superioris sporidii partis, simpliciter verticaliter divisis, hyalinis,  $18-20 \approx 6-7$ ; paraphysibus ramosis, superne fuscis.

*Hab.* ad truncos emortuos Cisti ladaniferi prope Olten Helv.

8. **Gloniopsis levantica** Rehm Rev. Hyst. Dub. p. 6, *Hysterium* sp. 4404  
Duby in herb. — Peritheciis.....; ascis clavatis, crassis,  $90 \approx 18$ ; sporidiis octonis, distichis, fusiformibus septemseptatis, septulo longitudinali divisis, hyalinis,  $21-24 \approx 9$ ; paraphysibus tenuibus, sursum ramosis.

*Hab.* in sarmentis Rubi, Ile du Levant (Hyeres) (MUELLER).

9. **Gloniopsis Lantanæ** Fautrey in Rev. myc. 1889, p. 152. — Peri- 4405  
theciis e ligni rimis seriatim erumpentibus, elongatis, rectis, nigris, labiis obtusis, confertis dein sejunctis; ascis cylindraceutis, breviter pedicellatis; sporidiis oblique monostichis, transverse 5-septatis, longitudinaliter 1-septatis, medio constrictis, dilute flavis,  $24-28 \approx 8-10$ .

*Hab.* in ramulis vivis Viburni Lantanæ, Noidan, Côte-d'Or Galliæ.

10. **Gloniopsis Verbasci** (Duby) Rehm Rev. Hyst. Dub. pag. 11, *Hysterium* 4406  
*Verbasci* Duby in Herb. — Peritheciis elongatis, 1-3 mm. long.,  $\frac{1}{2}-\frac{3}{4}$  mm. lat., acutis, non striatis; hypothecio brunneo; ascis clavatis, crassiusculis,  $70 \approx 15-10$ ; sporidiis 6-8, distichis, elongato-ellipsoideis, obtusis, rectis vel parum curvatis, transverse primo 3- dein 7-septatis, loculis 1-2-longitudinaliter divisis, hyalinis,  $15-17 \approx 7-8$ ; paraphysibus filamentosis, 3  $\mu$ . crassis, epithecium brunneum formantibus, sursum incrassatulis.

*Hab.* in caule Verbasci in . . . , . . . (locus non indicatus).

**HYSTEROPSIS** Rehm Disc. pag. 36. — Perithecia innata, convexa, elongata, simplicia, supra nigricantia, membranacea, rima longitudinali tenui percursa. Asci clavati, 8-spori. Sporidia ovato-clavata,

atris, nitentibus, coriaceo-subcarbonaceis, opacis, contextu indistincto, loculis in stromatibus solitariis, nucleo albo fartis, ostiolo vix vel non papillulato donatis; ascis cylindraccis, antice truncato-rotundatis, postice breviter attenuatis ac crassiuscule pedicellatis, 60-65  $\approx$  8-12, octosporis, aparaphysatis; sporidiis oblique v. transverse (extimis exceptis) monostichis, ellipticis, non v. vix ovoideis, medio non v. lenissime subattenuatis, 11  $\approx$  6-6,5, episporio tenui, nubiloso-ruguloso? (an protoplasmate?) donatis, hyalinis.

*Hab.* ad folia viva Ruprechtiae speciei cujusdam in silvis subvirgineis prope Paraguarî Brasiliæ.

42. **Phyllachora Astronii** Speg. Fungi Guar. Pug. I, n. 262. — Ma- 4070  
culis nullis aut vix manifestis, pallescentibus v. fuscescentibus, sparsis, indeterminatis; stromatibus parvulis, subgloboso-lenticularibus 200-300  $\mu$ . d., in maculis 1-5 laxè aggregatis, rarissime confluentibus, matrice innatis, utrinque prominulis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo fartis, ostiolo sæpius epiphyllò, parvulo ornatis; ascis cylindraccis, sæpe subtorulosis, antice rotundatis, postice brevissime crassissimeque attenuato-stipitatis, 50  $\approx$  20, octosporis, paraphysibus filiformibus, densiusculis obvallatis; sporidiis irregulariter distichis, extimis exceptis, ellipticis (an leniter obovatis?) utrinque obtusissime rotundatis, 12-14  $\approx$  8-9, episporio tenuiusculo (an minute denseque punctulato?), non v. 2-guttulatis, hyalinis.

*Hab.* ad folia viva Astronii juglandifolii in silvis montanis de Peribeby Brasiliæ.

43. **Phyllachora exsculpta** (Berk.) Sacc. Syll. II, p. 613, Cooke in Grevillea XIII, p. 64. — Stroma orbiculare, nigrum, margine radiatim exsculptum, ostiolis papilliformibus, centralibus; asci breviter clavati, sessiles; sporidia elliptica, continua (immatura), hyalina, circiter 12  $\approx$  4.

44. **Phyllachora? Populi** Rich. Cat. Champ. Marn. n. 1480 (Suppl.). 4071

*Hab.* in foliis Populi cordifoliæ, St. Lumier, Marne Galliae. — Species ambigua, peritheciis foliicolis, applanatis, confluentibus in stromate confertis gen. *Phyllachoræ*, nec non sporidiis allantoides, brunneolis, ascis longe pedicellatis gen. *Cryptosphæria* affinis. « Quid? »

45. **Phyllachora pirifera** Speg. Fungi Guar. Pug. I, n. 277. — Ma- 4072  
culis nullis; stromatibus sparsis, rarius 2-5-gregariis vel confluentibus, parvulis, 300-500  $\mu$ . diam., matrici innatis, epiphyllis vel

mutua pressione angulatis v. parum depressis, ostiolo minutissimo, papilliformi, pertuso, demum umbilicato, 83-94  $\mu$ . lat.; ascis oblongo-cylindræis, utrinque attenuatis, vertice truncato, substipitatis, 90-106  $\approx$  12,5; sporidiis oblique monostichis v. pro parte distichis, oblongis, utrinque acutiusculis, subinæquilateralibus continuis, hyalinis, 18-20  $\approx$  5,5; paraphysibus tenuissimis, filiformibus, mucosis.

*Hab.* ad folia viva plantæ ignotæ scandentis in Brasilia (ULE).

55. **Phyllachora? Arechavaletæ** Speg. F. Puigg. n. 313. — Stromatibus 4081  
hypophyllis, orbicularibus, abrupte pulvinulato-applanatis, levibus, sordide fusco- v. castaneo-atris, subnitentibus, 1-2 mm. diam., oculis periphericis immersis, globulosis, 120-150  $\mu$ . diam.; ascis obovato-cylindræis, 100-110  $\approx$  10-14, aparaphysatis; sporidiis ovoideis hyalinis, 15-18  $\approx$  5-6.

*Hab.* ad folia coriacea plantæ ignotæ prope Itabirá do Campo secus Rio das Velhas Brasiliæ (I. ARECHAULETA).

56. **Phyllachora biareolata** Speg. F. Guar. II, n. 99. — Stromatibus 4082  
sparsis, sæpius solitariis, parenchymate epidermideque innatis, utrinque manifestis atque applanatis, irregulariter suborbicularibus, 2-3 mm. diam., tenuibus, atris, opacis, non vel vix ad hypophyllum subnitentibus, subcarbonaceis, contextu indistincto, atro, primo macula pallescente, indeterminata cinctis, dein biareolatis, areola primaria strictiuscula, ex albo cinerescente, determinata, secundaria vel externa latiore, indeterminata, fusco-atra; loculis stromate immersis, e globoso ellipticis vel ovatis, 200-250  $\approx$  100-150, non vel vix ad hypophyllum colliculoso-prominulis, ostiolo fere subimperspicuo ornatis; ascis cylindræis, antice subtruncato-rotundatis crassiusculeque tunicatis, postice in pedicellum modice elongatum productis, p. sp. 90-95  $\approx$  6-9, pedicello 20-30  $\approx$  3-5, 8-sporis, paraphysibus filiformibus, densis obvallatis; sporidiis recte vel oblique distichis, ex elliptico subrhomboideis, utrinque plus minus acutiuscule rotundatis, 12  $\approx$  5, continuis, hyalinis.

*Hab.* ad folia plantæ cujusdam ignotæ, non coriacea, in silvis pr. Guarapí Brasiliæ.

### III. Monocotyledonicolæ.

57. **Phyllachora Alpinia** Sacc. et Berl. Misc. Myc. II, p. 5, Cooke et 4083  
Mass. in Grev. XVII, p. 56. — Maculis ex fusco piceo-nigris, elongatis, linearibus v. lanceolatis, hinc illinc confluentibus; stromatibus atris, nitentibus, rugulosis, nunc orbicularibus nunc confluen-

rapi Brasilæ. — Species ad *Physalosporam* vergens, stromatum tamen fabrica Dothideacea.

II. In foliis ignotis.

50. **Phyllachora lucida** Sacc. et Paol. Myc. Malac. p. 24, t. II, f. 7. — 4076  
 Hypophylla, maculis rufescentibus, vagis inserta; stromatibus innato-erumpentibus, inæqualiter gregariis, punctiformibus, circ.  $\frac{1}{4}$  mm. lat., atro-nitentibus, convexulis; loculis paucis, 3-4, globoso-depressis, ostiolis latentibus; ascis teretibus vel tereti-clavatis, brevissime noduloso-stipitatis, octosporis,  $55-65 \approx 10-14$ ; paraphysisibus non visis; sporidiis ellipsoideis, oblique monostichis vel partim distichis,  $10-12 \approx 7$ , uni-biguttatis, hyalinis.  
*Hab.* in foliis subcoriaceis languidis in pæninsula Malacensi Asiæ (B. SCORTECHINI). — Affinis *Phyll. lucenti* Cooke a qua sporidiis brevioribus præcipue differt, *Stigmataeæ gregariæ* Cooke quoque affinis.
51. **Phyllachora interstitialis** (B. et C.) Cooke in Grev. XIII, p. 64, 4077  
*Dothidea interstitialis* B. et C. in Herb. Berk. — Hypophylla; maculis atris, irregularibus, foliorum nervulis limitatis, 2-3 mm. diam., loculis paucis, stroma elevantibus, subnitidis; ascis clavatis; sporidiis ellipticis, continuis, hyalinis, immaturis, circ. 10  $\mu$ . long.  
*Hab.* in foliis, Cuba.
52. **Phyllachora exanthematica** (Lév.) Cooke in Grevillea XIII, p. 64, 4078  
*Dothidea exanthematica* Berk. in Herb. — Hypophylla vel amphigena; stromate elliptico, convexo, 3-4 mm. atro, nitido, levi; ascis subclavatis; sporidiis ellipticis, continuis, hyalinis,  $13-18 \approx 6$ .  
*Hab.* in foliis coriaceis in insulis Marquesas et Mauritius.
53. **Phyllachora apiahyna** Speg. F. Puigg. n. 311. — Stromatibus subhypophyllis, parvulis, atris, nitentibus, 1-2 mm.; loculis 4-12, globosis subprominulis, 200-300  $\mu$ . diam.; ascis cylindraceutis, octosporis,  $90-110 \approx 12-14$  paraphysatis; sporidiis ellipticis, utrinque obtusissimis, strato mucoso, crasso obvolutis, hyalinis,  $14-15 \approx 7$ .  
*Hab.* ad folia (lanceolata, subcoriacea, siccitate nigrescentia) plantæ ignotæ in dumetis pr. Apiahy Brasilæ.
54. **Phyllachora Ulei** Winter in Grev. XV, p. 90. — Stromatibus sparsis, amphigenis, plerumque autem epiphyllis, rotundatis, sæpe angulatis v. subirregularibus, multo rarius elongatis, usque 5 mm. lat., crustiformibus, applanatis, ab ostiolis perparum prominulis umbilicato-punctulatis, ceterum levibus, atris, subnitidis; peritheciis in quoque stromate numerosis, densissime stipatis, subglobosis, sæpe

tis (valvis clausis); ascis late clavatis, sursum rotundatis, basi attenuatis breviterque stipitatis, paraphysibus densis, sursum brunneolis cinctis, 60-70  $\approx$  15-20, octosporis; sporidiis subtristichis vel distichis, oblongo-ovoideis, primum cribrose guttulatis, hyalinis, dein 6-7-septatis, loculis septulo longitudinali divisis, fuscis, 25  $\approx$  10.

*Hab.* in ligno semiputri Mori albæ, Vaucuse Galliæ, sociâ *Zignoellâ Mori* (FABRE). — Habitus quasi *Lecanidii atrati* sed structura diversa.

5. **Hysterographium Beccarianum** Pass. in Martelli Flor. Bog. p. 146. 4412

— Peritheciis gregariis, fragilibus, superficialibus, atris, opacis, rectis vel raro curvis, labiis tumidulis, inflexis, conniventibus, levibus; ascis oblongo-clavatis, inferne attenuatis; paraphysibus filiformibus obvallatis, 100-125  $\approx$  10-12, octosporis; sporidiis monostichis, ellipticis vel ovatis, primo triseptatis, melleis, dein septemseptatis, muriformibus, fuscis, 17,5  $\approx$  7-8, ad septa non constrictis.

*Hab.* in corticibus vetustis, Keren Abyssiniæ (BECCARI).

6. **Hysterographium gregarium** Pass. in Martelli Flor. Bog. p. 146. 4413

Peritheciis oblongis, superficialibus, atris, levibus in greges coadunatis, rectis vel raro flexuosis, labiis conniventibus; ascis paraphysatis, oblongo-clavatis, basi longe attenuatis, octosporis, 75-95  $\approx$  12-15; sporidiis distichis, linguæformibus, primo ex hyalino luteolis, triseptatis, dein fuscis, 8-9-septatis, adiectis septis longitudinalibus plus minus obscuris sed satis perspicuis.

*Hab.* ad cortices vetustos, Keren Abyssiniæ (BECCARI).

7. **Hysterographium hiascens** Rehm, Sacc. Syll. II, p. 680 — \* **H. macrum** Sacc. et Berl. Misc. Myc. II, p. 7. 4414

— Peritheciis elongato-linearibus, rectiusculis, parallelis, 1-1,5  $\approx$  0,3 mm., atris, rima angusta incisus, labiis macris; ascis clavatis, breve stipitatis, paraphysatis, 90-100  $\approx$  25-30, octosporis; sporidiis subdistichis, oblongo-subfusoideis, 25-30  $\approx$  8-10, 6-8-septato-muriformibus, medio constrictis, olivaceis.

*Hab.* in lignis putridis, Logan Australiæ. — Var. **depressum** Winter in Rev. Myc. 1886, pag. 212: Peritheciis superficialibus, dense stipatis, ellipsoideis, rarius oblongis, plus minusve depressis, plerumque rectis, labiis tumidulis, conniventibus, striatulis, opacis, atris 0,5 mm. longis; sporidiis interdum usque 38  $\mu$ . elongatis, 7-10-septatis. Ad lignum putridum prope Melbourne Australiæ (READER).

8. **Hysterographium polymorphum** Karst. Hedw. 1889. — Peritheciis 4415  
erumpenti-superficialibus, gregariis, subinde confluentibus, rotun-

tibus; ascis clavato-stipitatis; sporidiis ellipticis, continuis, hyalinis, biserialibus 11-14  $\approx$  5-6.

*Hab.* in foliis morientibus Alpinicæ cœruleæ, Brisbane (et Tal-lebud) Australiæ (BAILEY). — Species Cookeana eadem est ac nostra.

58. **Phyllachora atroinquinans** Winter in Grevill. XV, pag. 90. — 4084

Stromatibus amphigenis, greges folium longe lateque obducentes, rarius minores, nigrescentes, indeterminatos irregularesque formantibus, immersis, ab epidermide denigrata tectis, rotundatis, sæpe obtuse angulatis, haud raro subconfluentibus, humidis planis v. perparum convexis, siccis depressis, impressis v. demum fere umbilicatis, rugulosis, atris, subnitentibus,  $\frac{1}{2}$  mm. lat.; peritheciis in quoque stromate parcis, plerumque unico, depressis, sublenticularibus, in stromatis superficie ostiolo papilliformi prominentibus, 270  $\mu$ . lat.; ascis elongato-ellipticis seu elliptico-subpiriformibus, sessilibus, 8-sporis, 62-66  $\approx$  26-27; sporidiis conglobatis, ovato-oblongis, supra medium latissimis, utrinque rotundatis, hyalinis, continuis, 25-28,5  $\approx$  10-10,5.

*Hab.* ad folia arida Bromeliaceæ adhuc indeterminatæ Brasilicæ (ULE).

59. **Phyllachora Musæ** (Klotzsch) Sacc. Syll. pag. 613 et 625, Cooke in Grevillea XIII, p. 64. — Asci clavati; sporidia elliptica, rotundata, continua, hyalina, 10-12  $\approx$  7.

60. **Phyllachora Engleri** Speg. Fungi Guar. Pug. I, n. 265. — Ma- 4085

culis nullis v. vix pallescentibus, indeterminatis, non vel vix subbullosis, stromatibus densiuscule gregariis, amphigenis, matrici innatis, vix lenticulari-pulvinatis, 3-5 mm. diam., 0,40-0,45 mm. crass., irregulariter orbicularibus ambitu, plus minusve obtuse anguloso-repandulis, extus glabris, levibus, atris, nitentibus, intus amphigenis, peritheciigeris, cortice atro, medula alba; loculis immersis, dense constipatis, lenticulari-conoideis, parvulis, 120-140  $\mu$ . d., ostiolo minutissimo, stromatis superficiem attingente et non exserto donatis; ascis cylindraceutis, apice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 50-60  $\approx$  6-7, paraphysatis, octosporis; sporidiis recte distichis, ellipticis v. elliptico-navicularibus, utrinque acutiusculis, 10-13  $\approx$  3-4, rectis vel curvulis, primo protoplasmate granuloso-farctis dein crasse 2-guttulatis, hyalinis.

*Hab.* ad folia viva Spathycarpæ lanceolatae ad ripas fluminis S. Antonio pr. pagum Villeta Brasilicæ. — Specimina nonnihil immatura videntur et facile stromata, post foliorum delapsum,

maturescentia. An sporidia tandem didyma et species ad genus *Dothidella* transferenda?

61. **Phyllachora mucosa** Speg. F. Guar. II, n. 106. — Maculis nul- 4086  
lis; stromatibus elliptico-linearibus vel linearibus, 1-2 mm. long.,  
0,4-0,5 mm. lat., sparsis vel seriatim dispositis, matrice innatis,  
utrinque perspicuis, ad epiphyllum tumidulis, atris, nitentibus, ad  
hypophyllum non v. vix pulvinulatis, fusco-atris v. subglaucescen-  
tibus, subcarbonaceis, levibus, glabris, contextu indistincto, 3-10-  
locularibus; loculis subglobosis v. confluentibus, minutis, 120-180  
 $\mu$ . diam., albo-farctis, astomis (?); ascis obclavato-saccatis, apice  
obtusis, basi brevissime crasseque pedicellatis, 80-95  $\times$  20-28, mox  
diffluentibus, parce paraphysatis (?), 8-sporis; sporidiis ellipticis,  
utrinque obtusis, 22-26  $\times$  10-12, di- v. tri-stichis, hyalinis, proto-  
plasmate granuloso sub luce refracta subchlorinulo, strato mucoso,  
hyalino, 5-8  $\mu$ . cr. obvolutis.

*Hab.* ad folia viva *Cocoës australis* in pratis uliginosis pr.  
Guarapí Brasilæ.

62. **Phyllachora? palmicola** Speg. Fungi Guar. Pug. I, n. 271. — Ma- 4087  
culis parum manifestis, sæpe totum folium ambientibus, expallen-  
tibus, circa stromata sæpe fuscescentibus; stromatibus innato-im-  
mersis, tectis, vix e parenchymate tumefactulo manifestis, atris,  
subcarbonaceis, contextu indistincto; loculis stromate immersis, glo-  
bulosis, 90-100  $\mu$ . diam., ostiolis crassis, superficiem epidermidis at-  
tingentibus ac leniter papillato-prominulis, levibus matricem supra  
stromata minute ac confertiuscule atro-granuloso-punctulatam ef-  
ficientibus, apice obtusis vel applanatis perforatisque, nucleo mu-  
coso, albo-farctis; ascis clavatis, antice obtusatis, postice attenua-  
to-pedicellatis, p. sp. 52  $\times$  15-20, ped. 20-25  $\times$  5; paraphysibus fili-  
formibus, densiusculis obvallatis, octosporis; sporidiis inordinate di-  
stichis, elliptico-subcylindræis, utrinque obtuse rotundatis, 18-20  
 $\times$  9, hyalinis.

*Hab.* ad folia languida *Coperniciæ ceriferæ* et *Trithri-  
naxis brasiliensis* in montuosis, Cerro Arro-ahí pr. Yaguaron  
Brasilæ et pr. Argentina. — Species pulchella, mox dignoscenda  
ostiolis tantum manifestis, amphigenis, densiuscule supra stromata  
exsertulis, subseriatis.

63. **Phyllachora nervisequia** Wint. in Hedw. 1885. — Stromatibus 4088  
elongato-lanceolatis, utrinque longe attenuatis, nervos sequentibus,  
nitide atris, loculis hemisphærice prominulis, papilla distincta, niti-  
da præditis, dense stipatis vel 3-seriatis, sæpe confluentibus, gra-



nulatis, macula indeterminata, fusca, demum obscuriore, epiphylla, 4-5 mm. longa, plerumque 1 mm. lata insidentibus; ascis elongato-oblongis, sursum perparum, deorsum magis attenuatis, 8-sporis, 87-110  $\approx$  16; sporidiis subdistichis, oblongo-subclavatis, unicellularibus, hyalinis, 19-21  $\approx$  7-7,5; paraphysibus copiosis, filiformibus.

*Hab.* ad folia viva aridaque *Cordylines cannifoliæ*, Rockhampton in Australia (MÜLLER).

64. **Phyllachora Fimbristylis** (B. et Br.) Sacc., *Dothidea* B. et Br. 4089

Brisb. III, p. 222, t. 29, f. 28-30. — Stromate nigro, epidermide tecto, ostiolis granulato, 1,5-2,5 mm. long.; ascis clavatis, crassiuscule stipitatis, apice rotundatis; sporidiis fusoideis, curvulis, oblique monostichis, rarius distichis, 17-18  $\approx$  2-3, pluriguttulatis, subhyalinis.

*Hab.* in *Fimbristylis* sp. quadam Northcote, Queensland Australiæ (C. BURTON).

65. **Phyllachora Luzulæ** (Rabh) Cooke in Grev. XIII, p. 64, *Sphæ-* 4090

*ria Luzulæ* Rabh. Fungi Eur. n. 533, Bot. Zeit. 1863, pag. 229. — Stromatibus substriæformibus, atris, carnosis, nucleo atro; ascis clavatis; sporidiis ellipticis, utrinque rotundatis, continuis, hyalinis, 10  $\approx$  5.

*Hab.* in foliis *Luzulæ* in Germania.

66. **Phyllachora anceps** Sacc. in Hedw. 1890, p. 156. — Stromati- 4091

bus oblongis v. elongatis, immersis, matricem parum infantibus et superficiem infusantibus; peritheciis seu loculis parallele seriatis, globulosis, supra attenuatis et in ostiolum punctiforme apertis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. lat., contextu tenui, fusco-olivaceo; ascis prælongis, cylindræis, apice rotundatis, subsessilibus, 195  $\approx$  8; sporidiis octonis monostichis, naviculari-oblongis, subinæquilateralibus, 20-22  $\approx$  6, hyalinis; paraphysibus filiformibus, guttulatis.

*Hab.* in calamis subviviis *Scirpi nodosi*, Tamma Australiæ. — *Ph. Cyperi* affinis.

67. **Phyllachora? gracillima** Speg. F. Puigg. n. 317. — Maculis nul-

lis v. vix pallescentibus, indeterminatis; stromatibus minutissimis, innatis, planis, atris, opacis, 200-300  $\mu$ . diam., contextu indistincto, loculis minutis, constipatis, immersis, sæpius e mutua pressione difformibus, 90-100  $\mu$ . diam., albo-farctis; ascis subfusoideo-clavulatis, basi brevissimeque attenuato-pedicellatis, 8-sporis, 50-60  $\approx$  10; paraphysibus parcis, filiformibus, asco longioribus; sporidiis oblanceolatis, inferne acutis, superne rotundatis, continuis vel sæpius 2-4-blastis (an demum 1-septatis?), 15-16  $\approx$  5, hyalinis.

*In Holepode capillari!*

68. **Phyllachora Caricis** (Fr.) Sacc. Syll. II, p. 625. — Asci clavati; sporidia elliptica, continua, hyalina (Confr. Cooke Grevillea XIII, pag. 63).
69. **Phyllachora setariæcola** Speg. Fungi Guar. Pug. I, n. 279. — 4092  
Maculis nullis vel vix manifestis, pallescentibus vel rubescentibus, indeterminatis; stromatibus amphigenis, ellipticis, longitudinalibus, dense sparsis, vix pulvinatis, atris, glabris, non nitentibus, subcarbonaceis, intus albis, 0,5-2 mm. long., 0,2-0,3 mm. lat., loculis dense constipatis, globulosis, 120-150  $\mu$ . diam., nigro-tunicatis, nucleo albo farctis; ascis cylindraneo-clavatis, antice truncatis, tunica incrassatula, postice attenuato-pedicellatis, 90-95  $\approx$  10-12; paraphysibus paucis obvallatis, 8-sporis; sporidiis ellipticis, utrinque acutatis, rectis v. vix inæquilateralibus, 13-15  $\approx$  6-6,5, distichis v. rarius submonostichis, hyalinis, granuloso-farctis v. 1-guttulatis.  
*Hab.* ad folia viva v. languida *Setariæ* speciei cujusdam in pascuis Pastoreo de Caà-guazù Brasiliæ. — Species ambigua ob loculos fusco-tunicatos, sed tunica pulpa e stromatis arcte adnata ac concreta! An melius *Gibellia* species? An *Ph. Setariæ* hujus spermogonium?
70. **Phyllachora Graminis** (Pers.) Fuck. — Sacc. Syll. II, p. 602. — Var. 4093  
**Tupi** Speg. Fungi Guar. Pug. I, p. 241. — Maculis nullis; stromatibus amphigenis, minutis, irregulariter ellipticis, 0,5-1 mm. long. 0,2-0,4 mm. lat., longitudinaliter densiuscule sparsis, non raro confluentibus, matrice innatis, vix prominulis, glabris, atris, opacis, subcarbonaceis, contextu indistincto; loculis immersis, amphigenis, minutis, 100-120  $\mu$ . diam., confertiuscule constipatis, ostiolo vix manifesto donatis; ascis cylindraceutis v. cylindraceuto-subclavatis antice subtruncatis crasseque tunicatis, postice breviter attenuatis crasseque stipitatis, 60-75  $\approx$  8-12, 8-sporis, paraphysibus filiformibus, simplicibus, plus minusve densis obvallatis; sporidiis quandoque distichis quandoque oblique v. transverse monostichis, ellipticis vel ovatis, utrinque acutiuscule rotundatis, 10-12  $\approx$  5-6, primo granuloso-farctis, hyalinis.  
*Hab.* ad folia viva *Oplismeni*, *Paspali*, *Andropogonis* specierum quarumdam pr. Paraguari, Guarapi et S. Thomas. — In forma *Paspali* sporidia videntur strato mucoso tenui obvoluta.
71. **Phyllachora Brachypodii** Roum. in Rev. Myc. 1885, p. 170. — 4094  
Stromatibus vero in lineas dispositis, rarioribus; ascis minoribus, 24  $\approx$  6-7; paraphysibus sursum ramosis obvallatis; sporidiis ovoideis, 12  $\approx$  7-8.

*Hab.* in foliis vivis *Brachypodii pinnati*, Seine Infer. Gallia. — Affinis *Phyll. Bromi*.

72. **Phyllachora Andropogonis** (Schw.?) Karst. et Har. Rev. Myc. 4095

1890 Oct. — Stromatibus discretis, rarius confluentibus, parenchymate folii innatis, utraque pagina prominulis, epidermide nigrefacta, opaca, concreta tectis, ovalibus, oblongatis vel suborbicularibus, inæqualibus, longitudinaliter rugulosis, usque ad 1 mm.; peritheciis loculis indistinctis, ostiis latentibus; ascis elongato-cylindraceis, sessilibus, circ. 100  $\approx$  20; sporidiis octonis, distichis, oblongato-ellipsoideis, hyalinis, 16-20  $\approx$  6-8.

*Hab.* ad folia *Andropogonis*, Timor Oceaniæ (HOMBRON). — A *Phyllachora Graminis* affini, ascis sporidiisque distichis differt; an eadem sit ac *Sphæria Andropogonis* (Schw.) dubium est.

73. **Phyllachora sphærosperma** Wint. in Hedw. 1884, pag. 170. — 4096

Stromatibus sparsis, rotundatis seu ellipsoideis, interdum confluentibus,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., atris, parum nitidis, ob ostiola prominula subtuberculatis, loculos globoso-angulatos, dense stipatos includentibus; ascis cylindraceis, breviter stipitatis, 8-sporis, 84-96  $\approx$  10-10,5; sporidiis monostichis, subglobosis, hyalinis, demum autem fuscis, levibus, plerumque 9  $\mu$ . diam.; paraphysibus filiformibus.

*Hab.* in foliis vivis *Cenchri echinati* prope S. Francisco Calif. — «An potius *Auerswaldiæ* species?».

74. **Phyllachora infuscans** Winter in Grev. XV, p. 89. — Stroma- 4097

tibus plerumque in macula longitudinaliter effusa, fuscidula, usque 1 cm. long., amphigena, subgregariis, sæpe seriatis et confluentibus, lineari-lanceolatis, utrinque obtusiusculis, convexulis, atris, subnitidis, longitudinaliter striato-rimosis, 1-2 mm. long., e parenchymate denso, fusco-atro contextis; peritheciis seu loculis in quoque stromate paucis, dense stipatis, totis immersis, haud exstantibus, subglobosis v. oblongis, mutua pressione angulatis et irregularibus, ostiolo haud visibili, a stromatis substantia non diversis; ascis elongato-oblongis vel oblongo-cylindraceis, sursum parum, deorsum magis attenuatis breviterque stipitatis, vertice rotundatis, 8-sporis, 124-142  $\approx$  18-26; sporidiis subdistichis, ellipsoideis v. oblongis, sæpe utrinque acutiusculis, parum inæquilateralibus, hyalinis, 23-27, rarius usque 30  $\mu$ . long., 9 plerumque 10,5  $\mu$ . cr.; paraphysibus copiosis, filiformibus.

*Hab.* ad folia viva *Paspali* in Brasilia (ULE).

75. **Phyllachora gracilis** Speg. F. Guar. II, n. 102. — Maculis nul- 4098

lis; stromatibus sæpius hypophyllis, rarissime etiam epiphyllis, li-

nearibus, 0,5-1,5 mm. long., 0,25-0,40 mm. lat., sparsis v. subgregariis, utrinque obtusiusculis, innatis, vix prominulis, atris, glabris, opacis, per ætatem sæpe subrimose dehiscentibus, subcarbonaceis, contextu indistincto; loculis 3-7 in quoque stromate globosis v. e mutua pressione angulosis v. subconfluentibus, albo-farctis; ascis subclavulatis, apice obtuse v. subtruncato-rotundatis, deorsum breviter attenuato-pedicellatis, 80-90  $\approx$  14-18, parce paraphysatis, 8-sporis; sporidiis elliptico-elongatis, non v. vix subrhomboideis, oblique mono- v. subdistichis, utrinque obtusiusculis, 18-20  $\approx$  7-8, nubiloso- v. granuloso-farctis, hyalinis.

*Hab.* ad folia viva Bambusaceæ cujusdam in montanis pr. Peribebuy Brasilæ. — *Phyl. bonariensi* Speg. (quæ in Panico bambusoidi Speg. nec in Bambusa viget) peraffinis, sed satis distincta.

76. **Phyllachora bambusina** Speg. Fungi Guar. Pug. I, n. 266. — 4099

Maculis nullis; stromatibus epiphyllis, linearibus, 1-2 mm. long., 0,5 lat., pulvinatulis, primo tectis, dein rimose dehiscentibus, matrix longitudinalibus, facillime scutato-dimidiatis (microthyriaceis), atris, glabris, rugulosis, loculis minutis, 150-200  $\mu$ . d. nucleo albo farctis, ostiolo parum perspicuo, vix pertuso donatis; ascis cylindraceis, antice truncato-rotundatis crassiusculeque tunicatis, postice attenuatis, brevissime crasseque stipitatis, 55-60  $\approx$  7-8, octosporis, paraphysibus densissimis, filiformibus obvallatis; sporidiis oblique monostichis ellipticis v. elliptico-clavulatis, utrinque rotundato-acutatis, 12-13  $\approx$  5-5,5, 2-guttulatis medio subconstrictulis et facile postremo 1-septatis, hyalinis.

*Hab.* ad folia viva Bambusaceæ speciei cujusdam in silva Naranajo Brasilæ.

77. **Phyllachora? Tricuspidis** Speg. F. Guar. II, n. 112. — 4100

Maculis nullis v. pallescentibus, indeterminatis; stromatibus majusculis, ellipticis v. confluendo-linearibus, utrinque acutis, 5-15 mm. long., 1-2 mm. lat., sparsis v. seriatim parallelis, ad epiphyllum tumidulis, atris, opacis v. vix subnitentibus, ad hypophyllum maculiformiter tantum perspicuis, applanatis, fusco-atris, coriacellis, contextu indistincto, intus albis, multilocularibus; loculis densissime constipatis, difformibus, 100-150  $\mu$ . diam., sæpe confluentibus, albo-farctis; ascis cylindraceis, antice obtuse rotundatis, non v. vix incrassato-tunicatis, deorsum modo attenuato-pedicellatis, 90-120  $\approx$  10-14, octosporis, dense paraphysatis; sporidiis oblique mono- v. subdistichis, ellipticis vel subovatis, utrinque acutis, 18-20  $\approx$  6-9,

non v. grosse 1-guttulatis, non v. parce inæquilateralibus, hyalinis, ad maturitatem utrinque apiculo conico, minutissimo, subdeciduo auctis.

*Hab.* ad folia viva *Tricuspidis latifoliæ* in herbosis silvaticis pr. Guarapí Brasilæ. — Species pulchella a *Phyllachoris* in aliis Graminaceis vigentibus sporidiis appendiculatis mox distincta; sporidia sæpe medio subcoarctatula, an serius 1-septata et tunc status immaturus *Dothidellæ*?

78. **Phyllachora Cyperi** Rehm — Syll. II, p. 606. — Var. **Donacis** 4101  
Berl. et F. Sacc. Contr. Myc. Lus. p. 6. — Stromatibus sparsis, plus minus elongatis, erumpentibus, nitidis, rimose apertis, convexis; loculis subsphæroideis v. mutua pressione angularibus, 200  $\mu$ . diam.; ascis clavatis, 75-80  $\approx$  12-15; sporidiis octonis, subdistichis, ellipsoideis, utrinque acutiusculis sed basi magis attenuatis, 22-24  $\approx$  5-6, hyalinis, subinde guttulatis.

*Hab.* in culmis *Arundinis Donacis* in Lusitania.

79. **Phyllachora stenostoma** Ell. et Tracy Journ. Myc. 1890, p. 76. 4102  
— Stromatibus innatis, subprominulis, nigris, subindefinite limitatis, subelongatis, 1-2 mm. long., ostiolis subprominulis, hystericiformibus punctatis; loculis parvis, subglobosis, numerosis; ascis subfasciculatis, sessilibus, oblongo-cylindræis, 40-45  $\approx$  7-8; sporidiis distichis, oblongis, 1-septatis, ad septum constrictis, flavo-brunneis, 12-15  $\approx$  3-3,5.

*Hab.* in foliis *Panici brizanthemi* in Africa (Prof. S. M. TRACY). — Habitus *Ph. Graminis*.

80. **Phyllachora sphærospora** Pat. Bull. Soc. Myc. 1887, pag. 126, 4103  
t. XI, f. 3. — Stromatibus epiphyllis, massas nigras, planas, secundum foliorum nervos elongatas efformantibus, primitus subepidermicis, dein superficialibus; ostiolis vix perspicuis; ascis cylindræis, elongatis, 80-100  $\approx$  15; paraphysibus copiosissimis, gracilibus ramosis; sporidiis monostichis, globosis, hyalinis, 10  $\mu$ . diam.

*Hab.* in foliis vivis Graminaceæ, Congo Africæ et Caricis in Venezuela Amer. centr. — «Cfr. *Ph. sphærosperma*, n. 73».

#### IV. *Acotyledonicolæ*.

81. **Phyllachora leptostromoidea** Cooke in Rav. N. A. Fungi et in 4104  
*Grevillea* XIII p. 64. — Stromate irregulari, minuto, applanato, atro, subinde confluyente, ostiolis vix conspicuis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 8  $\approx$  3.

*Hab.* in frondibus *Pteridis* in Carolina inf. — Habitus *Leptostromatis*.

82. **Phyllachora rhopographoides** Winter in Grev. XV, pag. 89. — 4105  
Stromatibus sparsis, epiphyllis, tuberculiformibus, plus minusve irregularibus, mox angulato-rotundatis, mox secus nervulos laterales elongatis, ab epidermide pustulatim inflata tectis, convexis vel subapplanatis, griseis, usque 2 mm. long., totis e parenchymate fusco-atro, e cellulis in series verticales, constipatis formato, constantibus; peritheciis s. loculis in quoque stromate parcis, dense stipatis, totis immersis, haud exstantibus, angulato-ellipticis v. irregularibus, ostiolo plerumque laterali, papilliformi vix prominentibus, usque 300  $\mu$ . lat.; ascis fere cylindraceutis, utrinque attenuatis, substipitatis, 8-sporis, 106-124  $\approx$  12,5; paraphysibus copiosis, filiformibus, submucosis; sporidiis oblique mono- v. pro parte subdistichis, oblongis, inæquilateralibus, utrinque rotundatis sæpeque attenuatis, hyalinis, sæpe medio spurie uniseptatis, 19-25  $\approx$  7.

*Hab.* ad folia subviva *Pteridis* aquilinæ in Brasilia (ULE).

**EURYACHORA** Fuck. — Sacc. Syll. II, p. 628.

1. **Euryachora Lathyri** (Lév.) Cooke in Grevillea XIII, p. 65, Herb. 4106  
Berk. n. 9198, *Dothidea Lathyri* Lév. Demid. Voy. II, 106, t. 5, f. 8. — Hypo- v. epiphylla; peritheciis sparsis, hemisphæricis, prominulis, astomis, albo-farctis. stromate maculæformi, irregulari, aterrimo immersis; ascis elongatis, cylindricis; sporidiis ovatis, nucleolos duos includentibus, 12  $\approx$  8.

*Hab.* in foliis *Lathyri*, Son-dagh.

**SCIRRHELLA** Speg. Fungi Guar. Pug. I, n. 258 (Etym. a *Scirrhia* cui hoc genus affine). — Stroma epidermide tectum, lineare, rimose erumpens, extus atrum, intus subceraceum, fuscum; loculi (an perithecia?) tunica in juventute cum stromatis substantia continua, dein superne carbonacea, atra, continua, inferne membranacea, tenui discreta ac distincta; asci cylindraceuto-clavati, octospori, paraphysati; sporidia elliptico-clavata inferne subattenuato-curvata, simplicia, hyalina. — Genus singulare inter *Dothideaceas* et *Nectriaceas* nutans; sporidiis generi *Apiosporæ* etiam peraffine, ab omnibus tamen satis recedens.

1. **Scirrhella curvispora** Speg. Fungi Guar. Pug. I, n. 258. — 4107  
Stromatibus linearibus, 1-6 mm. long. 0,5-0,7 crass. tectis, subseriatis, rimose erumpentibus, non exsertis, extus atris, glabris, rugulosis,

intus ceraceo-fuscis, per ætatem sæpe cavis; loculis (peritheciis?) dense constipatis, tunica primo tota cum stromatis substantia continua, dein superne continua, atra, carbonacea, inferne discreta membranacea, tenui, majuscule parenchymatica, olivaceo globoso-depressis, 200-300  $\mu$ . d., 150-200  $\mu$ . alt., e mutua pressione angulosis, ostiolo minuto, parum perspicuo, stroma perforante, sed non exserto donatis; ascis cylindraceo-clavatis v. toruloso-cylindraceis, antice rotundatis, postice breve crasseque stipitatis, 100-105  $\approx$  25-28, crasse tunicatis, octosporis, mucro granuloso ac paraphysibus crassis, septulatis, densis, subfluxilibus obvallatis; sporidiis distichis, elliptico-elongatis, sursum rotundatis ac non v. vix acutatis, deorsum leniter attenuatis, rotundato-acutatis, abruptiusculis, e latere incurvatis, 40-42  $\approx$  10-11, percrasse 1-guttulatis, hyalinis.

*Hab.* ad culmos dejectos putrescentes Bambusaceæ cujusdam in silvis prope Carapeguá Brasilæ.

### Sect. 2. Phæosporæ.

#### AUERSWALDIA Sacc. Syll. II, p. 626.

1. **Auerswaldia Chamæropis** (Cooke) Sacc. Syll. II, p. 626, Sacc. et 4108  
Berl. Miscell. Myc. II, p. 28, n. 125, tab. VIII, fig. 8. — Tandem ascos in hac specie reperire contigit: sunt obovati, sessiles, apice obtuse rotundati, 60-70  $\approx$  40-45, aparaphysati, octospori; sporidia ellipsoidea, 24-26  $\approx$  14-16, polysticha, ochraceo-fusca; stromata clypeata, oblonga, atro-nitida, 1,5  $\approx$  1 mm.; loculi globosi, pauci, ostiulis vix manifestis. — An species hæc cum Cookeana congruat verisimile est, sed sporidia non prorsus amygdaloidea, ut Cooke describit et asci insuper ab hoc auctore non descripti. Num *Sphæroopsis? dothideoides* Sacc. et Roum. Mich. II, p. 348, eadem res sit v. tantum status pycnidicus, ob specimina obsoleta, dubium.

*Hab.* in utraque pag. foliorum emort. Chamæropis humilis, S. Giovanni pr. Oristano Sardinia (MAGNUS).

2. **Auerswaldia palmicola** Speg. Fungi Guar. I, n. 281. — Stromata 4109  
tibus amphigenis, innato-superficialibus, irregulariter elongato-pulvinatis, inferne sæpius subcoarctatulis, 1-3 mm. long., 1 mm. lat. 0,5-0,8 mm. crass., longitudinalibus, superne scrupuloso-undulatis, atris, subcarbonaceis, fragilibus, glabris, sparsis v. laxe gregariis; loculis stromate immersis, vix prominulis, globulosis, 100-130  $\mu$ . diam., nucleo albo faretis; ascis clavatis, antice rotundatis, postice longe attenuato-pedicellatis, 120-130  $\approx$  14-16, aparaphysatis, octo-

sporis; sporidiis distichis, elliptico-inæquilateralibus v. cymbæformibus, utrinque obtusatis,  $15 \approx 6-7$ , primo hyalinis, dein opace fuliginis, non v. 2-4-guttulatis, strato mucoso, hyalino, persistente, plus minusve crasso, obvolutis.

*Hab.* ad folia viva Cocos Yatay pr. Pirayù in paludosis Brasilie. — Species prædistincta, an huc *Hyp. palmicola* (B. et C.)?.

3. **Auerswaldia rimosa** Speg. F. Guar. II, n. 115. — Maculis nullis; 4110  
stromatibus sæpius hypophyllis (rarius epiphyllis subabortivis) linearibus,  $5-20 \approx 1-2$  mm., utrinque attenuato-acutis, matrici innatis per epidermidem irregulariter longitudinaliterque fissam nigricatam adnato-erumpentibus tuberculis, atris subcarbonaceis, glabris opacis, dense loculiferis, contextu indistincto; loculis minutis  $200-250 \mu$ . diam., globosis sæpe ostiolato-papillulatis, albo-farctis; ascis cylindræis apice obtuse rotundatis ac crassiuscule tunicatis, deorsum cuneatis, breviter crasseque pedicellatis  $100-110 \approx 18-20$ , octosporis aparaphysatis; sporidiis oblique mono- vel distichis, elliptico-lanceolatis vel ellipticis, utrinque acutiuscule rotundatis in juventute hyalinis, 4-guttulatis,  $20 \approx 8$ , strato mucoso concolore crasso involutis, dein pulchre fuliginis,  $25-30 \approx 12$ , nudis.

*Hab.* ad folia viva Cocos speciei cujusdam in silvis montanis prope Peribeby Brasilie.

4. **Auerswaldia clypeata** Winter Grev. XV, pag. 91. — Stromatibus 4111  
sparsis epiphyllis, interdum 2-3 confertis et confluentibus, orbicularibus vel parum angulatis sinuatisque, scutiformibus, centro convexo, late et depresso conicis, atris, nitidis, demum applanatis, opacis et rugosis,  $\frac{1}{2}-1$  mm. lat.; loculis in quoque stromate paucis, sæpe solitariis, lenticularibus vel depresso subconoideis, totis immersis, ostiolo tantum vix papillæformi prominulis, usque 0,8 mm. latis; ascis cylindricis, deorsum stipitiformi-attenuatis, 8-sporis,  $140-150 \approx 16-20$ ; sporidiis oblique monostichis vel pro parte distichis, ellipsoideo-oblongis, utrinque parum attenuatis rotundatisque, utroque fine luteo-fuliginis, medio subhyalinis, continuis,  $25-27 \approx 8-9$ ; paraphysibus copiosis, tenuissime filiformibus.

*Hab.* ad folia subemortua Smilacis in Brasilia (ULB).

5. **Auerswaldia? bambusicola** Speg. Fungi Guar. Pug. I, n. 280. — 4112  
Stromatibus superficialibus, pulvinato-effusis, matrice arcte adnatis (non innatis nec erumpentibus), elliptico-elongatis, 1-2 mm. long. 0,7-1 mm. lat., sparsis v. 3-4-confluentibus, longitudinalibus, fusco-atris, glabris, levibus, coriaceo-subcarbonaceis, contextu subindistincto, minute celluloso-parenchymatico, fusco v. atro; loculis nu-



merosissimis, minutis, 150  $\mu$ . diam., e mutua pressione angulosis, nucleo opalescenti-albo farctis; ascis cylindraceis, apice obtuse rotundatis, tunica incrassata, postice breviter noduloseque attenuato-stipitatis, 65-70  $\approx$  7-10, aparaphysatis, 8-sporis; sporidiis cymbæformibus, utrinque acute obtusatis, 12-13  $\approx$  5, non v. minute 2-guttulatis, fuligineis.

*Hab.* ad culmos dejectos putrescentes Bambusaceæ sarmentosæ cujusdam in silva subvirginea Caá-guazú prope Arroyo-guazú Brasilæ — Species a genere nonnihil deflectens et facile generi *Hypoxyla* adscribenda; characteres tamen loculorum fere sine dubio dothideacei: au huc *Hyp. culmorum* v. *Hyp. perforatum*?

6. **Auerswaldia disciformis** Winter in Hedw. 1884, p. 100. — Stro- 4113  
matibus amphigenis, rotundatis seu irregularibus, sæpe angulatis, disciformibus, erumpentibus, epidermide fissa laciniis latis, recurvatis, atratis cinctis, atris, opacis sæpe rugulosis, multilocularibus, usque 5 mm. lat. sæpe confluentibus; loculis omnino immersis, haud prominulis, dense stipatis, globosis; ascis numerosissimis, cylindraceis, deorsum parum attenuatis, 8-sporis, 100-136  $\approx$  14-16; sporidiis oblique monostichis seu subdistichis, ellipsoideis, continuis, olivaceis, 17-19  $\approx$  8-9; paraphysibus non distinctis.

*Hab.* in foliis vivis Myricæ cujusdam prope Capetown in Promontorio Bonæ Spei.

7. **Auerswaldia puccinioides** Speg. Fungi Guar. Pug. I, n. 282. — 4114  
Maculis nullis v. parvulis, vix manifestis, pallescentibus; stromatibus superficialibus, hypophyllis v. rarius amphigenis, globosis v. hemisphærico-sublenticularibus 0,5-1,5 mm. diam., glabris, levibus (sub lente minute rugulosis), intus extusque fusco-ferrugineo-atris, sparsis v. laxè gregariis, non confluentibus, basi rotundato-coarctatis, puncto centrali tantum matrici adnatis, coriaceo-carnosis, contextu indistincto; loculis periphericis, globulosis, minutis, 140  $\mu$ . diam., pulpa fusca repletis; ascis clavato-cylindraceis, tunica crassissima, antice rotundatis, postice longe attenuato-pedicellatis, p. sp. 70-80  $\approx$  18, ped. 50-60  $\approx$  5, 8-sporis, paraphysibus paucis obvallatis; sporidiis recte distichis, ellipticis v. elliptico-ovoideis, rectis v. leniter inæquilateralibus, utrinque obtusiusculis, 12-15  $\approx$  6, olivaceis, eguttulatis.

*Hab.* ad folia viva coriacea plantæ cujusdam in silva Abbocaiatè prope Villa Rica Brasilæ. — Species pulcherrima, prædistincta, primo obtutu facillime pro *Pucciniæ* specie quadam sumenda, generibus *Hypoxyla* v. *Hypocrellæ* pluribus characteribus accedens.

*Sect. 3. Hyalodidymæ.*

**MUNKIELLA** Speg. Fungi Guar. Pug. I, pag. 248 (Etym. a viro sapientissimo D. EBERHART MUNK VON ROSENSCHELD Sueciæ filio, naturæ guaraniticæ sedulissimo perscrutatore). — Stromata, loculi et asci ut in *Dothidella*; sporidia elliptica v. ovoidea, recta v. inæquilateralia, bilocularia, loculo altero maximo, altero minuto, fere appendiculari, hyalina.

1. **Munkiella Caá-guazú** Speg. Fungi Guar. Pug. I, n. 283. — Maculis nullis; stromatibus sæpius epiphyllis, dense sparsis, pulvinulatis, plus minusve orbicularibus, 0,5-1,5 mm. diam., matrici arcte adnatis (an scutatis?), extus atris, ruguloso-gibbulosis, ostiolis parum perspicuis, cortice coriaceo, contextu indistincto, intus albocarnosulis; loculis numerosis, sublenticularibus, 150-200  $\mu$ . diam., nucleo gelatinoso, subhyalino, farctis, ostiolo minuto, non vel vix papillulato donatis; ascis cylindraceutis v. cylindraceuto-subclavulatis, antice obtusissimis v. subtruncato rotundatis crassissimeque tunicatis, postice brevissime pedicellatis, paraphysibus simplicibus, flexuosis, parcis obvallatis, 8-sporis; sporidiis recte vel oblique distichis, naviculari-elongatis v. naviculari-subclavulatis, utrinque obtusiusculis, 12-13  $\approx$  4-5, loculo infero minore, tertium vel quartum superioris vix æquante, hyalinis.

*Hab.* ad folia viva Apocynearum in silva subvirginea Caá-guazú, nec non prope Guarapi Brasilie.

2. **Munkiella guaranítica** Speg. Fungi Guar. Pug. I, n. 284. — Stromatibus maculiformibus, innato effusis, sæpe totum folium ambientibus, epiphyllis, rarius ad hypophyllum nonnihil manifestis, non pulvinatis, fusco vel rubiginoso-atris, non vel vix granulosis, non nitentibus, cortice coriacello, pulpa alba; loculis sparsis, lenticularibus, 150-200  $\mu$ . d., non v. vix prominulis, nucleo albo farctis, ostiolo parum perspicuo donatis; ascis cylindraceutis, antice truncato-rotundatis crasseque tunicatis, deorsum breviter crasseque attenuato-pedicellatis, 55-65  $\approx$  6-8, a paraphysatis, 8-sporis; sporidiis oblique monostichis v. rarius distichis, ovoideo-inæquilateralibus, 10  $\approx$  5, loculo supero octies quam infero longiore, hyalinis.

*Hab.* ad folia viva Teconie speciei cujusdam pr. Peribeby Brasilie. — Var. **major** Speg. loc. cit. n. 285: stromatibus, ut in typo, sed ad hypophyllum magis perspicuis; ascis obclavatis v. subfusoides, 70-80  $\approx$  10-14, pedicello nonnihil longiore ac graciliore

donatis; sporidiis elliptico-ovoideis, paullo majoribus, 12-13  $\approx$  6, loculo supero quintuplo vel sextuplo quam infero longiore crassioreque. Ad folia viva *Tabebuia Avellaneda* in Cerro pelado prope Paraguari Brasiliæ.

3. **Munkiella topographica** Speg. Fungi Guar. Pug. I, n. 286. — Ma- 4117  
culis nullis; stromatibus amphigenis, sed præcipue hypophyllis, irregulariter orbiculari-ellipticis, 0,4-2 mm. diam., sæpius confluentibus et secus nervos hinc inde gregariis, vix pulvinatis, fusco-atris, levibus, glabris, contextu indistincto, coriaceo-membranaceis; loculis confertis, immersis, pro ratione majusculis, 200-250  $\mu$ . d., nucleo gelatinoso, albo-farctis; ascis cylindræis, antice obtuse rotundatis crasseque tunicatis, postice modice attenuato-pedicellatis, 65-70  $\approx$  9-12, 8-sporis, paraphysibus filiformibus, densissimis, subcoalescentibus obvallatis; sporidiis monostichis v. subdistichis, ovoideo-elongatis v. subfusoido-clavulatis, apice obtusiusculis, postice acutis, 15-16  $\approx$  5-6, loculo supero quintuplo vel sextuplo quam infero longiore, granuloso-farctis, hyalinis.

*Hab.* ad folia viva *Fici* speciei cujusdam in silvis subvirginis prope Guarapí Brasiliæ.

4. **Munkiella impressa** Speg. F. Guar. II, n. 116. — Maculis nullis; 4118  
stromatibus orbicularibus, 2-3 mm. diam., sparsis v. hinc inde 2-3-gregariis, rarius confluentibus, matrice innatis, tenuiusculis, ad epiphyllum vix bullose concaviusculum imperspicuis, ad hypophyllum convexo-pulvinulatis, atris, nitentibus, glabris, levibus, sub lente minute granulosis, subcarbonaceis; contextu indistincto, dense loculifero; ascis cylindræis, apice late obtusissimeque rotundatis, tunica crassissima donatis, basi in pedicellum brevem crassumque cuneato-attenuatis, 80-90  $\approx$  10, parcissime paraphysatis, 8-sporis; sporidiis distichis, elliptico-navicularibus, superne obtusiusculis, inferne acutiusculis, 14  $\approx$  5-6, loculo infero (an septo spurio diviso?) minuto, subconoideo, hyalinis.

*Hab.* ad folia viva *Apocynæ* cujusdam in dumetis pr. Paraguari Brasiliæ. — Species pulcherrima, foveola epiphylla abrupte truncato-marginata, stromate discoideo-convexulo, hypophyllo mox dignoscenda.

5. **Munkiella pulchella** Speg. in Roum. F. Gall. n. 3246 et Rehm 4119  
Ascom. n. 925. — Stromatibus epiphyllis superficialibus crassiuscule pulvinatis, 1-1,5 mm. diam., solitariis v. confertis, fuscis dein nigris, nitentibus, ostiolis punctulatis, loculis in quoque stromate 6-9; ascis clavatis, tenuibus, 50-60  $\approx$  9, octosporis; sporidiis ob-

longis vel subclavatis, rectis, distichis brunneolis, 1-septatis, grosse 2-guttatis, 8-9  $\approx$  4,5; paraphysibus ramulosis, tenuibus, septatis, 2-3  $\mu$ . cr.

*Hab.* in foliis *Dalbergiæ variabilis* subviviis São Francisco Brasiliæ (ULE). — «An potius *Roussoellæ* species?»

**ROSENSCHELDIA** Speg. Fungi Guar. Pug. I, p. 250 (Etym. ab eximio EBERHARD MUNK VON ROSENSCHELD de re naturali meritissimo). — Stromata erumpentia, elongata. Loculi stromate totaliter exserti, globosi, dense congesti sed non confluentes. Asci cylindranei, 8-spori, aparaphysati. Sporidia fusoido- vel clavulato-acicularia, utrinque acuta, medio 1-septata, hyalina. — A genere *Montagnella* sporidiis hyalinis, 1-septatis distinctum, a *Dothidella* loculis exsertis, a *Munkiella* sporidiis medio septatis.

1. **Rosenscheldia paraguayana** Speg. Fungi Guar. Pug. I, n. 288. — 4120  
Stromatibus hypodermicis, inter corticem et lignum late serpenticibus, innatis, primo epidermide non deformata tectis, dein rimose longitudinaliter erumpentibus, pulvinulis sæpius confluentibus, ramos ramulosque totos ambientibus; loculis primo stromate immer- sis dein totaliter exsertis, globosis, 250-350  $\mu$ . diam., densissime constipatis, numquam confluentibus, glabris, levibus, vix sub lente validissima minute papillulosis, tunica coriaceo-spongiosa, contextu crasse celluloso-parenchymatico (cellulis, 15  $\mu$ . diam.), subopaco, atro-fuligineo; ascis cylindraneis, antice truncato-rotundatis crassiusculeque tunicatis, postice brevissime attenuato-pedicellatis, 120-130  $\approx$  5, aparaphysatis, 8-sporis; sporidiis fusoidis v. clavulato-acicularibus, utrinque acutissimis, 24-30  $\approx$  2-2,5 non v. vix inæquilateralibus, medio 1-septatis, non constrictis, loculis minutissime biguttulatis, hyalinis.

*Hab.* ad ramos ramulosque vivos *Hyptidis* speciei cujusdam in dumetis silvæ subvirginæ Caà-guazù Brasiliæ. — Species pulcherrima, habitu externo *Dimerosporium Collinsii* v. *Parodielle* speciem quamdam fere æmulans.

**DOTHIDELLA** Speg. — Sacc. Syll. II, p. 627.

1. **Dothidella Berkeleyana** (Cooke) Berl. et Vogl. Add. Syll. p. 239, 4121  
*Phyllachora Berkeleyana* Cooke in Grevillea XIII, p. 65, *Dothidea Baccharidis* B. et C. in Herb. Berk. n. 9161. — Amphigena, gregaria; stromate elevato, hemisphærico, 4-7 mm. diam. papilla-

to-rugoso, opaco; loculis minutis, plurimis immersis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalinis, 25  $\mu$ . longis.

*Hab.* in foliis Baccharidis, Cuba.

2. **Dothidella endocrypta** (Mont.) Berl. et Vogl. Add. Syll. p. 239, 4122

*Phyllachora endocrypta* Cooke in Grevillea XIII, pag. 65, *Dothidea endocrypta* Mont. in Herb. n. 9115. — Epiphylla; stromate discoideo, atro, opaco, 5-8 mm. diam., loculis minutis, immersis; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, ellipticis uniseptatis, utrinque rotundatis, hyalinis, flavescens, 20  $\approx$  5.

*Hab.* in foliis, Guiana (LEPRIEUR).

3. **Dothidella Salvadoræ** (Cooke) Berl. et Vogl. Add. Syll. pag. 239, 4123

*Phyllachora Salvadoræ* Cooke in Grevillea XIII, p. 65. — Amphigena, irregularis, prominula, atra, rugosa, hinc in circulos disposita, loculis tenuibus albis; ascis clavatis, 60  $\approx$  14, octosporis; sporidiis ellipticis, uniseptatis, utrinque rotundatis, hyalinis, 12-14  $\approx$  6.

*Hab.* in foliis Salvadoræ persicæ, Socotra Afr. orient.

4. **Dothidella apiculata** Sacc. et Berl. F. Austral. p. 4, t. LII, f. 8. — 4124

Stromatibus epiphyllis, in maculis ochraceo-brunneis, variis laxe gregariis, epidermide tenuissima, saltem initio, velatis, pulvinato-depressis, ambitu irregulariter rotundatis, atro-nitidis, 1-1,3 mm. d., intus pauci-locellatis, ostiolis brevissimis obtusis; ascis subteretibus, apice rotundatis, breve abrupte stipitatis, 75-80  $\approx$  18-20 paraphysatis, 4-sporis; sporidiis subdistichis, ovato-oblongis, utrinque rotundatis et breve obtuseque apiculatis, 1-septatis et leniter constrictis, 26-28  $\approx$  11-13, hyalinis.

*Hab.* in foliis languidis Litseæ, dealbatæ, Samford Australiæ. — Affinis *Dothidellæ australi*, a qua sporidiorum fabrica statim dignoscitur.

5. **Dothidella Philadelphi** Karst. Fragm. Myc. XXIII, p. 1. — Stro- 4125

matibus innato-erumpentibus, elongatis vel ovalibus, subinde confluentibus, applanatis, tenuibus, levibus, atris, intus albidis obsoleteque grumosis, 1-6 mm. long.; ascis elongato-clavatis, sessilibus, obtusis, 50-70  $\approx$  12-14; sporidiis distichis, ovoideo-oblongatis, utrinque attenuatis, 1-septatis, loculo superiore crassiore solitoque longiore, ad septum constrictis, eguttulatis, hyalinis, rectis, 24-26  $\approx$  6-8; paraphysibus nullis.

*Hab.* ad caules emortuos Philadelphi coronarii in horto Mustialensi Fenniæ. — Huic immixtum obvium: *Camarosporium macrosporum*.

6. **Dothidella Oxyridis** (Cooke) Berl. et Vogl. Add. Syll. p. 240, *Phyllachora Oxyridis* Cooke in Grevillea XIII, pag. 64. — Epiphylla, orbiculata, applanata, atra, punctato-rugosa, regulariter disciformis, 2-3 mm. diam., loculis numerosis, minimis; ascis clavatis, octosporis; sporidiis biserialibus, ovatis, uniseptatis, uno loculo multo minori, hyalinis, 12  $\approx$  6. 4126
- Hab.* in foliis vivis *Oxyridis compressæ*, Cape of Good Hope Africae australis.
7. **Dothidella Eugeniæ** (Thüm.) Berl. et Vogl. Add. Syll. p. 240, *Phyllachora Eugeniæ* (Thüm.) Cooke in Grevillea XIII, p. 65, *Asterina Eugeniæ* in Herb. Thüm. (non Mont.). — Amphigena; stromate orbiculari, atro, ruguloso, subdepresso, ambitu nudo, loculis minutis; ascis clavatis, octosporis; sporidiis ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 18  $\approx$  8. 4127
- Hab.* in foliis *Eugeniæ planipedis*, Chili, Valdivia.
8. **Dothidella Noumeana** Savès in Roum. Fung. Gall. n. 4153. — Stromatibus.....; sporidiis ovoideis, bilocularibus, roseis, 10-12  $\approx$  6. 4128
- Hab.* in foliis viventibus *Fici* in silvis subvirgineis pr. *Noumea Novæ Caledoniæ* (TH. SAVÈS).
9. **Dothidella Alni** Peck 40 Rep. p. 71. — Stromate orbiculari, 2-6 mm. lat., tenui, supra convexo et nigro, subtus concavo, brunneo vel griseolo-nigro, papilloso-rugoso; ascis cylindraceutis; sporidiis ovoideo-ellipsoideis, prope unum apicem obscure 1-septatis, hyalinis, 15-20  $\approx$  7,5-9. 4129
- Hab.* in foliis *Alni viridis emortuis* Mt. Marcy Amer. bor.
10. **Dothidella Vaccinii** Rost. Fungi Groenl. p. 566. — Stromatibus biogenis, hypophyllis, angulato-diformibus, sparsis, e loculis tuberculosis, atris, circ. 1 diam.; ascis elongato-clavatis, pedicellatis, 80-130  $\approx$  6-8; sporidiis octonis, monostichis v. apice distichis, oblongo-ellipsoideis, 1-septatis, hyalino-flavescentibus, utrinque appendiculis brevibus auctis, 16-20  $\approx$  5-6. 4130
- Hab.* in foliis viventibus *Vaccinii uliginosi* in Groenlandia.
11. **Dothidella confluens** (W. et C.) Sacc. *Phyllachora confluens* Welw. et Cur. F. Angol. p. 285, tab. 17, fig. 16-18. — Peritheciis spuriis e substantia folii formatis, globosis vel oblongis, in tubercula nigra rugosa minuta confluentibus; tuberculis approximatis acervulos 12-24 mm. latos formantibus; nucleis bififormibus, altero e tela floccosa sporulas nudas gerente constante, altero ascigero; sporidiis oblongis utrinque acutiusculis, biserialibus, 1-septatis, non constrictis, subhyalinis, 17-18  $\approx$  5-6. 4131

*Hab.* ad foliola fruticis scandentis Leguminosæ floribus paniculatis albis præditæ, Golungo alto Angolæ.

12. **Dothidella frigida** Rostrup Svampe fra Fiermarken pag. 233. — 4132

Stromatibus epidermide innatis, effusis forma variis, atris, nitidis, rugulosis; ascis ovoideo-oblongis, crasse tunicatis, sessilibus, 20-25  $\mu$ . longis, circit. 9  $\mu$ . crassis; sporidiis octonis, conglobatis, ovoideo-oblongis, prope basim 1-septatis, loculo superiore biguttulato, 9  $\approx$  3.

*Hab.* in caulibus aridis Phacæ frigidæ, Sakkabani Island.

13. **Dothidella appendiculata** (De Lacr.) Har. et Br. Journ. de Bot. 4133

1891, p. 170. — Stromate rotundato, atro, epidermide tecto, sæpius confluyente, plano v. prominulo, 1 mm. diam.; ostiolis granuliformibus, superficie rugulosis; ascis cylindraceo-clavatis, breviter stipitatis, 50-70  $\approx$  8-10 p. sp.; paraphysibus filiformibus; sporidiis octonis, distichis, ovato-oblongis, utrinque attenuatis, 1-septatis, ad septum constrictulis, loculis 2-guttulatis vel eguttulatis, dilute olivaceis, subhyalinis, 12-14  $\approx$  4-5, utrinque appendicula brevi, hyalina præditis.

*Hab.* ad caules Chondrillæ junceæ, Saint-Romain-sur-Vienne Galliæ (DE LACROIX).

14. **Dothdiella? caaguazuensis** Speg. Fungi Guar. Pug. I, n. 287. — 4134

Maculis nullis v. pallescenti-subarescentibus, indeterminatis; stromatibus epiphyllis, rarissime hypophyllis, hinc inde dense gregariis, bullas majusculas, sæpe totum folium ambientes efficientibus, hemisphærico-pulvinatulis, parvulis 0,5-1,5 mm. diam., sæpe confluentibus, granulosis, atris v. atro-velutinis cellulis elongatis, dense papilloso-prominentibus, 10  $\approx$  4, contextu coriaceo-subcarbonaceo, indistincto, atro; loculis parce prominulis, globulosis, 130-140  $\mu$ . diam., dense constipatis, nucleo albo fartis, ostiolo non v. vix manifesto donatis; ascis cylindraceo-subfusoides, mox fluxilibus, 8-sporis; sporidiis distichis, elongato-clavulatis, utrinque obtusatis, 18-20  $\approx$  5, primo hyalinis dein dilute ex hyalino fuscis vel chlorinis.

*Hab.* ad folia viva Compositæ cujusdam in dumetis Pastoreo de Caà-guazù Brasiliæ.

15. **Dothidella Tracyi** (Ell. et Ev.) Sacc., *Phyllachora* Ell. et Ev. 4135

Journ. Myc. 1888, pag. 63. — Stromatibus tenuibus, in cæspites  $\frac{1}{4}$ - $\frac{1}{2}$  cm. long., foliis interdum in series interruptas, folium omnino percurrentes dispositis; loculis minutis, 350  $\mu$ . diam., subastomis, subglobosis, minute parenchymaticis; ascis subglobosis, 15-20  $\mu$ .

diam.; sporidiis confertis, octonis, subellipsoideis v. ovato-oblongis, obtusis, hyalinis, 1-septatis, 8-12  $\approx$  5-6.

*Hab.* in foliis emortuis *Distichlidis maritimæ*, Oregon Amer. bor. (Prof. S. M. TRACY).

16. **Dothidella pteridophila** Speg. F. Puigg. n. 327. — Stromatibus amphigenis, innato-prominulis, minutis, 0,5-1 mm. diam., atris, loculis pusillis, dense constipatis, albo-farctis, 90-120  $\mu$ . diam.; ascis obclavulatis, 50-60  $\approx$  12-14, aparaphysatis; sporidiis elliptico-elongatis, medio 1-septatis, hyalinis, 16-18  $\approx$  4-5. 4136

*Hab.* ad folia viva v. languida *Pteridis* speciei cujusdam in uliginosis prope Apiahy Brasilæ. — *D. nervisequicæ* affinis.

**SCIRRHIA** Nits. — Sacc. Syll. II, p. 635.

1. **Scirrhia Groveana** Sacc. Misc. Myc. II, pag. 23, t. IX, fig. 18. — Stromatibus linearibus, plurimis, in utraque foliorum pagina paralele gregariis, epidermide initio velatis, 1-1,5 mm. longis, atris; loculis confertis, subglobosis; ostiolo breve papillato-prominulis, pertusis; ascis fasciculatis, fusoides, sessilibus, utrinque obtusiusculis, 60  $\approx$  12, aparaphysatis; sporidiis distichis, oblongis vel subclavulatis, 14-16  $\approx$  3,5-4, 1-septatis, non constrictis, nubiosis, hyalinis. 4137

*Hab.* in foliis languidis *Typhæ latifoliæ*, sociâ *Leptosphæriâ Michotii*, Langle Pool pr. Birmingham Britannicæ (W. B. GROVE).

2. **Scirrhia infuscata** Winter in Hedwigia 1886, p. 102. — Stromatibus amphigenis, seriatis, lineas breves, valde prominentes, usque 2 mm. longas, atras formantibus; loculis parcis, monostiche denseque stipatis, subglobosis, ostiolo papilliformi, vix prominulo prædatis, 100-180  $\mu$ . latis; ascis cylindræis, deorsum parum attenuatis, fere sessilibus, 8-sporis, 50-55  $\approx$  9-10; sporidiis subdistichis, oblongo-fusoides, utrinque attenuatis, sed rotundatis, inæquilateralibus, medio uniseptatis, non constrictis, hyalinis, 16-18  $\approx$  3,5-4; paraphysibus tenuissimis, filiformibus. 4138

*Hab.* in foliis Gramineæ cujusdam, St. Thomé Afr. occid.

3. **Scirrhia? microspora** (Niessl) Sacc., *Monographus microsporus* Niessl in Krieger F. sax. n. 240, Rehm Ascom. n. 931. — Stromatibus linearibus, 2 mm. long., atris, erumpentibus; ascis teretibus, apice rotundatis, 36-45  $\approx$  5, octosporis, obturaculo jodo immutato; sporidiis clavatis, raro ellipsoideis, rectis, hyalinis, bicellularibus, 8-10  $\approx$  2,5-3, subdistichis; paraphysibus filiformibus, parcis. 4139

*Hab.* in petiolis siccis *Aspidii Filicis-feminæ*, Königstein



ad Elbe Saxonie (W. KRIEGER). — In *Monographo Aspidiorum* sporidia, teste Rehm l. c., sunt 3-septata, 18-27  $\approx$  3-4 et obturaculum jodo cœrulescit.

4. **Scirrhia leptosperma** Speg. F. Puigg. n. 328. — Stromatibus amphigenis, linearibus, erumpentibus, fuscescentibus, vix perspicuis, 1-3 cm. long., 150-200  $\mu$ . lat.; loculis monostichis, globulosis, 100-120  $\mu$ . diam.; ascis obclavulatis, deorsum breve crasseque pedicellatis, 50  $\approx$  16, octosporis, aparaphysatis; sporidiis lineari-clavulatis, hyalinis, 1-septatis, substrictis, 20  $\approx$  4.

*Hab.* ad folia Graminaceæ majoris cujusdam in campis pr. Apiahy Brasilie. — Species pusilla, *S. infuscatæ* Wint., ut videtur, affinis.

5. **Scirrhia confluens** Starb. Ascom. Oeland p. 18, f. 8. — Stromatibus anguste ellipsoideis v. lanceolatis, utrinque apiculatis et transversim longitudinaliterque confluentibus, sub epidermide colore atrocinereo cinctis, elevatis, longitudinaliter rimosis, nidulantibus, maculas cinereas formantibus; loculis sphaeroideis, paralleliter dispositis, 200-250  $\mu$ . diam.; ascis cylindraceutis, sursum rotundato-obtusis, sessilibus, 50-60  $\approx$  6; sporidiis continuis, rhombiformibus vel dein septo medio constrictis et partibus 2 divisis superiore altera latiore, ambabus autem irregulariter rhomboideis, plerumque in pulcherrime et minute guttulatis, 9-10  $\approx$  4; paraphysibus nullis.

*Hab.* in stipitibus Asplenii sp. in Oelandie Suecie.

**PLOWRIGHTIA** Sacc. Syll. II, p. 635.

1. **Plowrightia Calystegie** (Cooke et Hark.) Berl. et Vogl. Add. Syll. p. 241, *Dothidea Calystegie* Cooke et Harkness in Grevillea XIII, p. 8. — Subgregaria; stromatibus ellipticis, erumpentibus, atris, opacis, 1-2  $\approx$  1/2 mm., cellulis immersis, epidermide rupta cinctis; ascis clavatis, octosporis vel tetrasporis; sporidiis elongato-ellipticis, inordinatis, uniseptatis, nec constrictis, hyalinis, 22  $\approx$  7; conidiis ovalibus, continuis, 5  $\approx$  3, pallidis, consociatis.

*Hab.* in caulibus Calystegie sepium in California (HARKNESS).

2. **Plowrightia Balanseana** Sacc. Roum. et Berl. in Rev. Myc. 1885, p. 157, t. LIV, f. 8. — Stromatibus pulvinato-orbicularibus, extus cinereo-rufis, 1/2-2 mm. diam., loculis minutis, 100-200  $\mu$ . diam., nucleo albido et ostiolo prominulo instructis, atris; ascis cylindraceutis vel cylindraceuto-clavatis, breviter et crasse pedicellatis; paraphysibus filiformibus obvallatis, tunica crassa præditis, 70  $\approx$  15, octospo-

ris; sporidiis inordinate distichis vel oblique monostichis, ellipsoideis, prope imam basim (spuriæ?) uniseptatis, 15  $\approx$  10, hyalinis.

*Hab.* in pagina inf. foliorum Bignoniæ . . . . Santos in Brasilia. — In pagina superiore foliorum fungillus maculas nigrescentigriseas efficit.

3. **Plowrightia phyllogena** Harkness Fungi Pac. Coast. p. 166. — Hy. 4144  
pophylla, mycelio dense insidens; peritheciis discretis, minutis, nigris, rugosis, depressis; paraphysibus delicatis; ascis cylindraceutis, 120  $\approx$  16, 8-sporis; sporidiis ovato-oblongis, hyalinis, prope basim septatis, 16  $\approx$  8.

*Hab.* in foliorum pag. inf., quam obducit, Amelanchieris alnifoliæ, Sierra Nevada Californiæ.

4. **Plowrightia staphylina** Ell. et Ev. Proc. Phil. 1890, pag. 248. — 4145  
Peritheciis in cæspitulos circ. 1 mm. diam., plerumque per cm. plura seriato-confluentes gregariis, e corticis rimis erumpentibus, subprominulis, nigris, ovoideis vel obovatis, 150-200  $\mu$ . lat., deorsum substipitato-angustatis, ostiolo conico, papilliformi, mox late et subinde irregulariter perforato; ascis clavato-cylindraceutis, subsessilibus, 60-65  $\approx$  8, paraphysatis; sporidiis plerumque 2-stichis, oblongis v. clavato-oblongis, hyalinis, 1-septatis, leniter constrictis, 12-15  $\approx$  4-5, utrinque obtusis.

*Hab.* in cortice Staphyleæ trifoliæ, London, Canada Amer. bor. (DEARNESS).

5. **Plowrightia virgultorum** (Fr.) Sacc. Syll. II, pag. 636. — Var. 4146  
**nana** Karst. Hedw. 1890, p. 178. — Stromatibus innato-erumpentibus, oblongatis v. elongatis, ostiolis sphæriiformibus, sphæroideis v. sphæroideo-depressis pertusis, atris, nitidis, majusculis donatis; ascis cylindraceuto-clavatis, apice obtuse rotundatis, basi breviter attenuato-stipitatis, 45-50  $\approx$  14-15; sporidiis octonis, distichis, ovoideis, prope imam basim 1-septatis, ad septum constrictis, hyalinis, 12-14  $\approx$  7; paraphysibus nullis.

*Hab.* in ramis adhuc vivis Betulæ nanæ prope Mustiala Fenniæ.

6. **Plowrightia Symphoricarpi** Ell. et Ev. Proc. Phil. 1890, p. 249. 4147  
— Stromatibus convexis, ligno penetrantibus, linea nigra non circumscriptis, brunneolo-nigris, intus albidis, 1,5-2 mm. diam., raro nullis; peritheciis 10-15 in quoque stromate,  $\frac{1}{3}$  mm. diam., supra prominulis et liberis; ostiolis obtuse conicis, sublevibus v. indistincte radiato-sulcatis; ascis clavato-cylindraceutis, subsessilibus, 75-80  $\approx$  12, paraphysatis; sporidiis monostichis v. supra distichis, ova-

to-ellipsoideis, 1-septatis, constrictis, primo hyalinis et granulosis, dein flavo-brunneis, 15-18  $\approx$  8-10.

*Hab.* in ramis emortuis *Symphoricarpi occidentalis*, Sand Coulee, Montana Amer. bor. (ANDERSON).

7. **Plowrightia? paradoxa** (Duby) Sacc., *Dothidea paradoxa* Duby 4148  
Not. Doth. pag. 198, f. 4. — Subcutanea, minuta, sparsa, demum erumpens, ovata, epidermide cincta, primum aurantiaca demum nigricans, loculis 1-3 globosis, composita; ascis cylindraceutis v. elongato-clavatis; sporidiis mono- raro distichis, ovoideis, medio constrictis, 2-3-guttatis, hyalinis.

*Hab.* ad ramos emortuos *Lycii europæi* in Helvetia. — «Species omnino dubia, an hypocreacea?».

8. **Plowrightia? quercina** Karst. Symb. XVII, p. 162. — Stromati- 4149  
bus cortice innatis, dein suberumpentibus, ut plurimum orbicularibus, convexo-planis, levibus, atris, circ. 2 mm. lat., loculis stipatis, mediocribus, albis; ascis sessilibus, elongato-clavatis, 45-51  $\approx$  8-9; paraphysibus haud bene discretis; sporidiis non visis.

*Hab.* in ramis emortuis *Quercus* in insula Runsala pr. Aboam Fenniae. — Adsunt sporulæ in iisdem peritheciis cylindraceutæ, curvulæ, 7-8  $\approx$  1.

#### Sect. 4. Phæodidymæ.

**DOTHIDEA** Fr. — Sacc. Syll. II, p. 639.

1. **Dothidea Loniceræ** Cooke in Grevillea XIII, p. 66. — Erumpens, 4150  
suborbicularis, sæpe confluens, pulvinata, planiuscula, atra, 1 mm. diam., loculis sparsis, periphericis; ascis clavatis, octosporis; sporidiis sublanceolatis, medio constrictis, uniseptatis, fuscis, 22-24  $\approx$  9.

*Hab.* in sarmentis *Loniceræ sempervirentis* in Pennsylvania Amer. bor. (MICHENER).

2. **Dothidea Artemisiæ** (Schw.) Cooke in Grevillea XII, p. 5, *Sphaeria Artemisiæ* Schw. Amer. bor. n. 1227, *Nummularia Artemisiæ* (Schw.) Sacc. Syll. I, p. 401.

3. **Dothidea Bigeloviæ** Ell. et Ev. Proc. Phil. 1890, p. 248. — Stro- 4151  
matibus depresso-tubercularibus, suborbicularibus, circ. 1 mm., levibus, nigris, cortice partim immersis; loculis periphericis, minutis, numerosis; ascis oblongis, mox evanescentibus, 40-50  $\approx$  12; sporidiis subdistichis, 1-septatis, ad septum constrictis, 15-20  $\approx$  7-10.

*Hab.* in caulibus emortuis *Bigeloviæ*, Helena, Montana, Amer. bor. (Rev. F. D. KELSEY).

4. **Dothidea rudis** Karst. et Har. Journ. Bot. 1889, p. 206. — Stro- 4152  
matibus per corticem fissum erumpentibus, sparsis, subinde con-  
fluentibus, pulvinatis, planiusculis, tuberculosi, atris, intus fuscis  
v. fusco-cinereis, orbicularibus v. oblongatis, 1-2 mm. lat.; locu-  
lis minimis, dispersis, albis; sporidiis ellipsoideis, utrinque obtu-  
sissimis, 1-septatis, ad septum leviter, interdum parum, constrictis,  
fuligineis, 17-25  $\approx$  11-13.

*Hab.* in ramis emortuis *Quercus* in Gallia.

5. **Dothidea? antarctica** Speg. F. Fueg. n. 278. — Maculis epiphyll- 4153  
lis, parvulis, indeterminatis, fuscescentibus, stromatibus hypophyl-  
lis, sparsis, innatis, suborbicularibus, 2-3 mm. diam., vix pulvinu-  
latis, applanatis, atris, glabris, non vel vix nitentibus, loculis den-  
sissime constipatis, globulosis, 100-120  $\mu$ . diam., e mutua pressio-  
ne sæpe angulosis; ascis et sporidiis non visis.

*Hab.* vulgata ad folia viva vel languida *Mayteni magella-  
nicæ* in silvis pr. Shammacus et Picton island Fuegiæ.

6. **Dothidea viridispora** (Cooke) Berl. et Vogl. Add. Syll. pag. 243, 4154  
*Phyllachora viridispora* Cooke in *Grevillea* XIII, pag. 65. —  
Epiphylla, sparsa, orbicularis, hemisphærica, 1-2 mm. diam., atra,  
rugosa, intus alba; ascis clavatis, octosporis; sporidiis biserialibus,  
ellipticis, diu continuis, binucleatis, hyalino-virescentibus, 16-18  $\approx$   
7,5-8, demum uniseptatis.

*Hab.* in foliis vivis, Jamaica (D. MORRIS).

**ROUSSOELLA** Sacc. Myc. Malac. pag. 24 (1888) (Etym. a domina M.  
ROUSSEAU mycologa belgica solertissima). — Stromata verrucoso-  
clypeata vel erumpentia, atra, subcarbonacea, intus plurilocularia;  
asci octospori; sporidia oblonga, uniseptata, fuliginea. — A gen.  
*Phyllachora* differt sporidiis didymis, coloratis.

1. **Roussoella nitidula** Sacc. et Paol. loc. cit. p. 24, tab. II, f. 8. — 4155  
Stromatibus hinc inde gregariis vel subconfluentibus, inæqualiter  
oblongis, depresso-clypeatis, 2-2½ mm. longis, 1½ mm. latis et  
vix ½ crassis, epidermide atra et in stroma mutata tectis, linea  
stromatica nigra in matricem descendente et stromata nonnulla am-  
plectente circumdatis; loculis globosis, parvis, unistratosi; ascis  
cylindraceutis, 100-115  $\approx$  8-9, octosporis; sporidiis monostichis, ob-  
longo-fusoideis, utrinque obtusiusculis, 20-24  $\approx$  6,5-7,5, uniseptatis,  
diu non constrictis, maturis vero leniter constrictis, et longitudi-  
naliter striolatis, fuligineis, sæpe 4-guttulatis.

*Hab.* in culmis crassioribus verisimiliter *Bambusæ* in pænin-

sula Malaca (SCORTECHINI). — Exemplaria vetusta hinc dubium an asci perfecti sint paraphysati et stipitati.

2. **Roussoella Munkii** Speg. F. Puigg. n. 329, *Dothidea Munkii* 4156  
Speg. Fung. Guar. Pug. I, n. 298. — Maculis nullis vel hypophyllis, parvulis, fusciscentibus, indeterminatis; stromatibus epiphyllis, sparsis, innatis, tecto-erumpentibus, irregulariter elongatulis, 0,5-2,5 mm. long., 0,5-1 mm. lat., pulvinato-prominulis, glabris, subcarbonaceis, extus atris, intus fuscis; loculis densis, stipatis, supra stroma leniter prominulis, irregulariter globosis, 180-300  $\mu$ . diam., ostiolo papillulato, vix perspicuo, nucleo fusco farctis; ascis cylindræo-subclavatulis, antice obtuse rotundatis, crassiuscule tunicatis, postice breviter attenuatis, 65  $\approx$  8-9, paraphysibus parvis obvallatis; sporidiis distichis v. oblique monostichis, ovoideis, utrinque rotundatis, superne sæpe subtruncatis, 8-9  $\approx$  3,5-4, 1-septatis, septo nonnihil excentrico, loculis crasse 1-guttulatis, supero fere altero duplo majore, fuligineis.

*Hab.* ad folia viva *Quebrachiæ* spec. cujusdam in silvis subvirgineis prope Guarapí Brasilæ.

3. **Roussoella subcoccodes** Speg. F. Puigg. n. 329. — Stromatibus 4157  
hypophyllis, sparsis vel subcircinantibus, hemisphærico-subglobosis, minutis, 0,5-1 mm. diam., innato-superficialibus, fusco-atris; loculis 2 v. 5, constipatis, globulosis, 120-150  $\mu$ . diam., ostiolo non v. vix prominulis; ascis cylindræis vel clavulatis, p. sp. 50-60  $\approx$  7-8, 8-sporis, mucoso-diffluentibus; sporidiis cylindræo-obovatis, excentrice 1-septatis, utrinque subtruncatis, non vel vix constrictis, 10-12  $\approx$  4-5, loculo majore 2-, minore 1-guttato, fuligineis.

*Hab.* ad folia (subcoriacea elliptica glabra) viva Leguminosæ scandentis cujusdam in dumetis prope Apiahy Brasilæ. — Species cum *Phyllachora coccode* (Lév.) Speg., Sacc. Syll. I, p. 446 (sub *Physalospora*) a cl. Spegazzinio comparata, habitu simillima, fructificationis tamen notis secundum auctoris diagnosis (specimen Spegazzinianum nicaraguense sterile) longe recedens; an ejusdem status adultus?

### Sect. 5. Phragmosporæ.

**MONTAGNELLA** Speg. — Sacc. Syll. II, p. 646.

1. **Montagnella Castagnei** Speg. Fungi Guar. Pug. I, n. 290. — Ma- 4158  
culis nullis v. vix manifestis, pallescentibus; stromatibus amphigenis, sæpius tamen hypophyllis, subneurophilis, innato-erumpen-

tibus, parvulis, 0,5-1  $\mu$ . diam., irregulariter orbicularibus, sparsis, rarius aggregatis v. confluentibus, subpuccinioideis, pulvinatulis, primo tomento albo tectis (an status conidici residuis?), dein nudis, fusco-rubiginosis, postremo fusco-atris, granulosis (e loculis prominulis), coriaceis, contextu indistincto, opaco; loculis dense constipatis, ad tertium vel medium usque prominulis, ovato-subconicis, 150-200  $\mu$ . diam., nucleo albo farctis; ascis sursum rotundatis crasseque tunicatis, deorsum breviter attenuato-pedicellatis, paraphysibus filiformibus, simplicibus, densis obvallatis, 8-sporis; sporidiis distichis, elliptico-elongatis vel subfusoides, utrinque acutiuscule rotundatis, 18-20  $\simeq$  4-5, rectis v. leniter inæquilateralibus, primo medio 1-septato-constrictis, loculis majuscule 2-guttulatis, utrinque appendice globuliformi, parvula ornatis, hyalinis, dein exappendiculatis, 3-septatis, ad septa non constrictis, dilute fumosis.

*Hab.* ad folia viva Eupatorii tinctorii in uliginosis prope Peribebuy Brasiliæ.

2. **Montagnella tumefaciens** (E. et Harkn.) Berl. et Vogl. Add. Syll. 4159 p. 244, *Sphæria tumefaciens* Ell. et Harkn. in Journ. of Myc. 1886, p. 41. — Peritheciis crustaceis, hemisphæricis,  $\frac{1}{3}$ - $\frac{1}{5}$  mm. diam., nigris, rugosis, stipatis, crusta stromatica per rimas longitudinales corticis erumpente seriesque dense compactas, continuas v. interruptas efficiente, 3-5 cm. longa unitis; ascis 100-120  $\simeq$  10-12, subcylindræis, copiose paraphysatis; sporidiis sæpe distichis, cylindræo-fusoides, leniter curvis, 6-septatis, lutescentibus, 25-30  $\simeq$  6-7.

*Hab.* in ramulis emortuis Artemisiæ californicæ in Monte Diabolo et Cala Amer. bor. — Habitu *Plowrightiæ morbosæ* similis, a qua peritheciis seriatim dispositis, nec non sporidiorum fabrica differt. «An *Rhopographus*?».

3. **Montagnella Platani** Karst. et Har. Rev. Myc. 1890 Oct. — Stro- 4160 matibus per corticem erumpentibus, suborbicularibus, vulgo solitariis, carbonaceis, fuscis, minutis; loculis paucis, prominulis, irregulariter sphæroideis, demum poro pertusis, atris, albo-farctis; ascis cylindræo-clavatis, 85-90  $\simeq$  12-13; sporidiis octonis, distichis, fusoides-oblongatis, rectis v. inæquilateralibus, 4-6-guttulatis, dein 3-septatis, leniter constrictis, hyalinis, 21-22  $\simeq$  7-8; paraphysibus numerosis, ramosis, gracillimis.

*Hab.* in ramis Platani, Meudon Gallicæ (Herb. TULASNE). — Ad *Calosporam* vergit.

4. **Montagnella Lantanæ** Karst. et Har. Rev. Myc. 1890 Oct. — Stro- 4161

matibus sparsis, ligno adnatis, cortice pertuso tectis, conoideo-truncatis v. orbiculariter expansis, sæpe ambitu vage determinatis, parte superiore loculiferis, subcorneis, atris inferiore sterili carbonaceis, fuscis, loculis emergentibus, subastomis, colliculosis, in senectute subobliteratis ac frustulatim secedentibus, 1-2 mm. lat.; ascis cylindraceo-clavatis, 75-90  $\approx$  15-16; sporidiis octonis, distichis, fusoideo-oblongatis, rectis v. curvulis, demum triseptatis, ad septa leviter v. vix constrictis, chlorino- vel luteolo-hyalinis, 18-26  $\approx$  7-9; paraphysibus numerosis, ramulosis, gracillimis.

*Hab.* in Viburno Lantana, Bellevue Galliæ (Herb. TULASNE).

5. **Montagnella? Opuntiarum** Speg. F. Guar. II, n. 117. — Maculis nul- 4162  
lis v. indeterminatis, pallescentibus; stromatibus epidermide innatis, erumpenti-prominulis, linearibus, 2-4 mm. lat., circulos, 2, rarius 3, concentricos sed discretos (centro quoque libero) efficientibus (interno 1 cm. diam., externo 2-3 cm. diam.), marginibus subdeterminatis, vix illis circuli exterioris sæpe effuso-repandulis donatis fusco-atris, opacis, glabris, ob loculos subesxertulos dense granuloso-verruculosis, subcarbonaceis, contextu grosse celluloso-parenchymatico, parum distincto atro; loculis dense constipatis, minutis, 120-200  $\mu$ . globoso-prominulis, in vivo levibus, in sicco subrugulosis sed non collapsis, albo-farctis; ascis cylindraceis v. subfusoideo-cylindraceis, apice obtuse et late rotundatis crasseque tunicatis, deorsum brevissime crasseque pedicellatis, 90-100  $\approx$  20, parce pseudoparaphysatis, 8-sporis; sporidiis oblique distichis, cylindraceo-fusoideis, utrinque acutiuscule rotundatis, primo 3-5-blastis, hyalinis 38-40  $\approx$  8, dein 5-septato-constrictulis, 45  $\approx$  10, chlorinulis, inæquilateralibus v. subcurvulis.

*Hab.* ad corticem ramorum dejectum putrescentem Cerei arbori cujusdam in silvis pr. Calle-poi et Yaguaron Bras. — Species pulchella distinctissima, sed natura ejusdem dothideacea nonnihil dubia! — Var **minor** Speg. F. Guar. II, n. 118: stromatibus orbicularibus 1-3 cm. diam., planissimis, continuis, non v. vix subpulvinatis, margine rugula pallescente determinatis, fusco-atris, densissime minutissimeque granulosis, granulis (sub lente) concentrice dispositis, coriaceo-membranaceis, innatis, contextu atro, opaco, indistincto; loculis parce hemisphærico-prominulis, 150-180  $\mu$ . diam., densissime constipatis, in sicco sæpius cupulato-collapsis, ostiolo majusculo, 20  $\mu$ . diam., perforatis, albo-farctis; ascis subellipticis, antice subtruncatis crassissimeque tunicatis, postice brevissime crasseque stipitatis, 85-90  $\approx$  30, aparaphysatis, 8-sporis; sporidiis oblique 2-3-sti-

chis, cylindræo-fusoideis, utrinque acutiusculis, 30-36  $\approx$  9-10, 3-septatis, (an semper?), non v. vix constrictis, subinæquilateralibus, primo hyalinis, dein chlorinulis. Ad corticem ramorum languentem *Opuntia* argentinæ in silvis montanis, Cerro de Acahy Bras.

6. **Montagnella botryosa** Sacc. et Paol. Myc. Malac. pag. 25, t. III, 4163  
f. 2. — Epiphylla, dense gregaria, nigra, stromatibus subsuperficialibus, vix 1 mm. lat. subcarbonaceis, basi ex hyphis brunneis, cylindricis, compactis efformatis; peritheciis seu loculis botryosoprominulis, inæqualibus, in quoque stromate 4-6, obtusis, vix per-tusis; ascis tereti-clavatis, breve crasseque stipitatis, 100-120  $\approx$  18, parce paraphysatis, octosporis; sporidiis distichis, fusoideis, utrinque acutiusculis, leniter curvis, initio granulosis, 1-septatis, dein 3-septatis, non constrictis, hyalinis, 40-42  $\approx$  7.

*Hab.* in foliis coriaceis languidis in pæninsula Malacensi (SCORTECHINI). — A *Mont. tordilensi* differt ascis sporidiisque multo majoribus.

7. **Montagnella? Puiggari** Speg. F. Puigg. n. 530. — Stromatibus am- 4164  
phigenis, ellipticis, minutissimis, atris, levibus, opacis, 0,7-1,3 mm. diam.; loculis pusillis, dense constipatis, 90-120  $\mu$ . diam.; ascis cylindræis, vel clavulatis, 60-70  $\approx$  8-10, brevissime crasseque stipitatis, aparaphysatis; sporidiis fusoideis, utrinque obtusiusculis, 3-septatis, hyalinis, loculo supero crassiore.

*Hab.* ad folia viva *Oplismeni* speciei cujusdam in silvaticis pr. *Apiahy* Brasiliæ. — *Phyllachora graminis* (Pers.) Fuck. var. *Tupi* Speg. f. *Oplismeni* (in Fung. guar. p. I, n. 268) facillime huc ducenda, ut status hujusce immaturus, teste ipso Spegazzinio.

8. **Montagnella Eucalypti** Cooke et Mass. in Grev. XVI, pag. 5. — 4165  
Epiphylla, orbicularis, convexa, nitida, 2-3 mm. diam., levis, loculis paucis; ascis piriformibus, quadrisporis; sporidiis subfusiformibus, utrinque rotundatis, uni- dein triseptatis, nec constrictis, diu hyalinis, demum pallide fuscis, 35-40  $\approx$  10.

*Hab.* in foliis emortuis *Eucalypti*, Bunyip Australiæ (F. CAMPBELL).

**DARWINIELLA** Speg. F. Fueg. n. 279 (Etym. a celeberr. DARWIN). — Stromata *Dothideæ*, loculis immersis, non prominulis. Ascii cylindræi v. clavati octospori, paraphysati. Sporidia elongata, 3-septata, hyalina.

1. **Darwiniella antarctica** Speg. F. Fueg. n. 279. — Stromatibus cor- 4166  
ticalibus, primo tectis dein erumpentibus ac peridermii laciniis cin-



ctis, parvulis, 1-1,5 mm. diam., atris, opacis, levibus, parum pulvinatis, sparsis vel gregariis et subseriato-subconfluentibus, carbonaceis, contextu indistincto; loculis globulosis, dense constipatis, 200-250, immersis non prominulis; ascis cylindraceis v. cylindraceo-fusoideis, apice truncatis, postice attenuato-pedicellatis, 80-100  $\approx$  8-9, octosporis, paraphysibus filiformibus, paucis obvallatis; sporidiis oblique mono- vel distichis, subcylindraceis, utrinque obtusiuscule rotundatis, 15-25  $\approx$  4-5, leniter inæquilateralibus vel subcurvulis, triseptatis, ad septa non constrictis hyalinis.

*Hab.* ad ramos dejectos emortuos *Chilotrichi* amelloidis prope Port Cook in Staten island Fuegiæ.

2. **Darwiniella globulosa** (Cooke et Mass.) Sacc. *Dothidea globulosa* 4167  
Cooke et Mass. Grev. XVII, pag. 42. — Hypo-epiphylla, globosa, rugulosa, atra, opaca 1-1½ mm. diam., loculis periphericis, globosis, minimis; ostiolis obsolete; ascis clavatis, octosporis, sporidiis inordinatis, oblongis, triseptatis, hyalinis, 25  $\approx$  7.

*Hab.* in foliis *Tasmaniae aromaticæ*, Tasmania.

### HOMOSTEGIA Fuck. — Sacc. Syll. II, p. 649.

1. **Homostegia Pelvetii** (Hepp) Linds. Trans. Roy. Soc. Ed. XXIV, 4168  
p. 450, Cooke in *Grevillea* XIII, p. 66, *Celidium Pelvetii* Hepp  
Eur. n. 589. — Ascis clavato-saccatis, 45-12, octosporis; sporidiis  
ellipticis, uniseptatis, hyalinis v. subluteolis, 11  $\approx$  6.

*Hab.* parasitice in *Sticta aurata* in Germania et Britannia.

2. **Homostegia Albizziæ** (Cooke) Berl. et Vogl. Add. Syll. p. 244, *Phyl-* 4169  
*lachora Albizziæ* Cooke in *Grevillea* XIII, p. 65, *Dothidea viven-*  
*tis* var. *Albizziæ* Cooke. — Epiphylla, minuta, convexa, nitida,  
vix 1 mm. diam.; loculis paucis, 1-4; ascis clavatis, breviter stipi-  
tatis; sporidiis lanceolatis, medio constrictis, uniseptatis, binucleatis,  
demum triseptatis, hyalinis, 25-27  $\approx$  7.

*Hab.* in foliis vivis *Albizziæ*, Natal (J. M. Wood).

3. **Homostegia glomerata** (Pat.) Sacc. *Plowrightia glomerata* Pat. 4170  
Bull. Soc. Myc. 1888, p. 117. — Stromate maculas nigras, irre-  
gulares, minutissimas, 0,5-3 mm. diam., nitentes, sparsas vel con-  
fluentes efformantibus; peritheciis hemisphæricis, nigris, interdum  
solitariis et tum stromate nigro-marginato cinctis, sæpius in quaque  
macula stromatica 2-3-gregariis, apice ostiolatis; ascis cylindra-  
ceis, supra rotundatis, apice brevissime abrupte stipitatis; para-  
physibus copiosissimis, hyalinis, filiformibus, simplicibus v. ramo-

sis; sporidiis ovoideis, initio 4-guttatis, angulosis, dein 4-septatis, medio leniter constrictis, 20-22  $\approx$  7-10, diu hyalinis, demum pallide brunneolis.

*Hab.* in cortice plantarum variarum Puerto-Zamuro, Atures etc. Venezuelæ.

4. **Homostegia dendritica** (Cooke) Berl. et Vogl. Add. Syll. p. 245, *Phyl-* 4171  
*lachora dendritica* Cooke in Grevillea XIII, p. 65. — Epiphylla, subrotunda, elliptica vel confluens, convexa, atra, nitida, in maculas dendroideas collecta, præcipue supra nervulos foliorum disposita, intus alba; cellulis paucis; ascis clavatis; sporidiis sublanceolatis, medio leniter constrictis, uniseptatis, binucleatis, demum tri-septatis, hyalinis, 20-22  $\approx$  5.

*Hab.* in foliis coriaceis in Brasilia.

5. **Homostegia Kelseyi** Ell. et Ev. Proc. Phil. 1890, p. 248. — Peri- 4172  
theciis gregariis vel cæspitosis vel 3-6 in stroma imperfectum gregatis, e corticis rimis sæpe transverse seriatis, ovoideis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam.; ostiolo conico, interdum imperfecte radiato-sulcato; ascis cylindræis, 150-190  $\approx$  8-9, paraphysatis; sporidiis monostichis, hyalinis, oblongo-cylindræis, 3-septatis, rectis, obtusis, 15-20  $\approx$  7-9.

*Hab.* in ramis emortuis Ribis rotundifolii, Helena Montana Amer. bor. (Rev. F. D. KELSEY).

6. **Homostegia parasitica** (H. Fabre) Rehm. Ascom. n. 894, *Bertia* 4173  
Fabr., Sacc. Syll. I, pag. 584. — Loculi haud carbonacei, vertice poro pertusi; asci fusoides, apice crasse tunicati, 8-sporei, 45-50  $\approx$  12-14; sporidia ellipsoidea v. oblongo-ellipsoidea, rectiuscula, pluri-guttulata, dein 5-septata, dilute brunneola, 15-17  $\approx$  6; paraphyses filiformes. — Quum sporidia in typo *Homostegia* sint colorata, sectio *Roumegueria* Sacc. forte genus distinctum constituere meretur.

**EURYTHECA** De Seynes. — Sacc. Syll. II, pag. 651. — Genus potius inter *Phymatosphæriaceas* locandum. Cfr. Syll. VIII, p. 846.

1. **Eurytheca? abyssinica** Passerini in Martelli Flor. Bog. pag. 145, 4174  
— Stromatibus superficialibus, oblongis vel globulosis, sæpius depressis, rugulosis, atris, intus albidis, loculis stipatis, immersis, monoascis, ascis obpiriformibus, membrana apice incrassata, octosporis, 20-22  $\approx$  13-16; sporidiis subtristichis vel conglobatis, oblongo-cuneatis, hyalinis, primo medio septatis, dein bi-triseptatis.

*Hab.* in ramis corticatis, Keren Africae (BECCARI).

*Sect. 6. Dictyosporæ.***CURREYA** Sacc. Syll. II, p. 651.

1. **Curreya** *Shepherdia* Ell. et Ev. Proc. Phil. 1890, p. 249. — Pe- 4175  
 ritheciis 4-6, stromate imperfecto, laxo brunneo exceptis, ovatis,  
 intus albis; ostiolo brevi obtuso, epidermidem findente et leniter  
 emergente; ascis clavato-cylindræis, 100-110  $\approx$  15, obtuse para-  
 physatis; sporidiis monostichis, obovatis, 3-5-septato-muriformibus,  
 medio leviter constrictis, flavidis, 18-22  $\approx$  10-12.

*Hab.* in ramis emortuis *Shepherdia* argenteæ, ubi pustulas  
 minutas nigras inæquales format, Valley of the Teton Northern  
 Montana Amer bor. (ANDERSON).

2. **Curreya?** *bambusicola* Speg. F. Guar. II, n. 120. — Stromatibus 4176  
 ramulos abortivos dense congesto-subcapituliformes vestientibus,  
 effuso-crustaceis, superficialibus, matrice arctiuscule adnatis sed  
 frustulatin ab ea secedentibus subtenuibus ac subcarbonaceis, atris,  
 glabris subrugulosis, contextu grosse celluloso-parenchymatico, atro,  
 parum distincto; loculis (an peritheciis?) in stromate prominulis,  
 udis subglobosis, siccis ruguloso-subcollapsis, minutis, 100-120  $\mu$ .  
 diam., ostiolo pusillo pertusis; ascis cylindræis vel subclavulatis,  
 sursum obtusissime rotundatis ac crassissime tunicatis, deorsum bre-  
 viter crasseque pedicellatis, 40  $\approx$  10; aparaphysatis, octosporis; spo-  
 ridiis oblique distichis, ellipticis vel obovatis, horizontaliter 3-septa-  
 tis, constrictulis, loculo 1 interno septulo altero, rarius deficiente,  
 verticali diviso sæpe quoque loculo extimo supero oblique 1-septu-  
 lato, utrinque obtusis, 12-13  $\approx$  6-7, pallide fumoso-olivaceis.

*Hab.* ad culmos vivos *Bambusaceæ* cujusdam in silvis mon-  
 tanis prope Peribebuy Brasiliæ. — Species perpulchra stromate cru-  
 staceo superficiali nonnihil a dothideaceis deflectens.

*Sect. 7. Scolecosporæ.***OPHIODOTHIS** Sacc. Syll. II, p. 653.

1. **Ophiodothis** *tarda* Harkn. New Calif, Fungi pag. 26. — Hypophyl- 4177  
 la, in maculis irregularibus, angularibus, 3-4 mm. latis, sæpius  
 confluentibus; stromatibus papillatis, nitentibus, nigris; ascis 8-  
 sporis, cylindræis, basi abrupte truncatis bulbosisque, curvis,  
 57  $\approx$  9; sporidiis linearibus, pluriguttulatis, 42  $\approx$  2.

*Hab.* in foliis *Rhois diversilobæ*, San Francisco Californiæ.

2. **Ophiodothis paraguariensis** Speg. Fungi Guar. Pug. I, n. 292. — 4178

Maculis minutis 1-15 mm. diam., epiphyllis, rarius amphigenis, indeterminatis, arescenti-fuscis vel cinereo-atris, dense gregariis, rarius confluentibus, substromaticis; stromatibus minutis, epiphyllis, rarius hypophyllis, subepidermicis, cum macularum substantia confluentibus, globulosis, minutis, parce prominulis, 100-120  $\mu$ . diam., atris, glabris, subnitentibus, 1-locularibus; loculis minutis, e globoso lenticularibus, 80-100  $\mu$ , diam., solitariis, nucleo albo farctis, ostiolo minuto non vel vix papillulato-perforato donatis; ascis fusoides v. fusoides-subclavatis, sursum truncatis crassissimeque tunicatis, late perforatis, deorsum attenuatis, pedicello parvulo, noduloso instructis, 50-52  $\approx$  7-9, aparaphysatis vel pseudoparaphysatis, 8-sporis; sporidiis fusoides-acicularibus, utrinque acutato-rotundatis, rectis v. leniter curvulis, 40-45  $\approx$  2-2,5, primo multiguttulatis, dein obscure polyblastis, (an pluriseptatis?), hyalinis.

*Hab.* ad folia viva Anonaceæ cujusdam in silvis prope Paraguari Brasiliæ.

3. **Ophiodothis Balansæ** Speg. Fungi Guar. Pug. I, n. 291. — Ma- 4179

Maculis stromaticis, amphigenis, suborbicularibus, 5-15 mm. diam., atris, indeterminatis; stromatibus innatis (in maculis vel circum circa) densiuscule gregariis, suborbicularibus, rarius confluentibus, vix prominulis, sæpius 1-locularibus, coriacellis, contextu indistincto, atro, opaco; loculis e globuloso lenticularibus, 200-300  $\mu$ . d., ostiolo parum manifesto, nucleo albo farctis; ascis obclavatis, apice attenuato-truncatis, leniter incrassato-tunicatis, basi subabrupte coarctatis, minute noduloseque pedicellatis, 65  $\approx$  10, aparaphysatis, 8-sporis; sporidiis fasciculato-polystichis, acicularibus, utrinque attenuato-acutatis, 35-40  $\approx$  2,5, lenissime curvulis, medio 1-septatis, non constrictis, loculis granuloso-farctis, hyalinis.

*Hab.* ad folia viva Bignoniceæ cujusdam in silvis secus flumen Pirayù Bras. — Species ob sporidia bilocularia inter genera *Ophiodothis* et *Dothidella* nutans.

4. **Ophiodothis? leptospora** Speg. F. Puigg. n. 331. — Stromatibus 4180

hypophyllis, innatis, vix prominulis, minutis, 5 mm. diam., glaucescentibus, areola pallescenti-alba, stricta cinctis; loculis in quoque stromate 2-5, constipatis, e globuloso angulosis, 120-150  $\mu$ . d., immersis, nec prominulis; ascis ellipsoideis vel obovatis membrana tenuiter longeque foveolato-perforata, deorsum brevissime stipitatis, 50-60  $\approx$  10-22, aparaphysatis; sporidiis cylindræis, utrinque attenuato-rotundatis, continuis, eguttulatis, rectis v. curvulis, 40  $\approx$  4-5.

*Hab.* ad folia coriacea viva plantæ ignotæ in silvis pr. Apiahy  
Brasilæ.

5. **Ophiodothis vorax** (B. et Curt.) Sacc. Syll. II, pag. 652. — Asci cylindranei apice rotundati et incrassati 180  $\approx$  5-6, 8-spori; sporidia filiformia, fragilia, hyalina, 90  $\approx$  1; paraphyses ramulosæ.

## Fam. 6. **Microthyriaceæ** SACC.

### Sect. 1. **Hyalosporæ.**

**MYIOCOPRON** Speg. — Sacc. Syll. II, p. 659.

1. **Myiocopron Palmarum** Wint. in Hedw. 1885, p. 25. — Peritheciis 4181 superficialibus, dense sparsis seu gregariis, scutiformibus orbicularibus vel ellipticis, ostiolatis, atris, opacis, contextu membranaceo, fusco, parenchymatico, cellulis marginalibus plerumque bifidis, 120-260  $\mu$ . diam.; ascis ovatis, obovatis vel e basi ventricosa sursum parum attenuatis, sessilibus, 8-sporis, 40-50  $\approx$  23-26; sporidiis conglobatis, subovatis, unicellularibus, hyalinis, intus granulosis, 16-17  $\approx$  8-9; paraphysibus parcissimis, filiformibus.

*Hab.* in partibus exsiccatis foliorum **Palmarum**, pr. S. Francisco Brasilæ (E. ULE).

2. **Myiocopron? crustaceum** Speg. Fungi Guar. Pug. I, n. 293. — 4182 Maculis nullis; peritheciis amphigenis, sæpius hypophyllis densissime aggregatis, subconfluentibus, late folia crusta fusco-atra, continua obtegentibus ac nigrificantibus, discoideis, dimidiato-scutatis, parvulis, 150-180  $\mu$ . diam., coriacellis, contextu radiante, subindistincto, ostiole parum conspicuo, subrotundo v. stellatim dehiscente donatis; ascis subsaccatis, ovatis v. obovatis, apice obtusatis, basi abrupte coarctatis minuteque stipitatis, 40-50  $\approx$  15-20; paraphysibus simplicibus, parcissimis immixtis, 8-sporis; sporidiis oblique distichis, ovoideis v. clavulatis, leniter inæquilateralibus, utrinque obtusiusculis, non v. medio subcoarctatulis (an demum 1-septatis?) granuloso-farctis, hyalinis, 15-20  $\approx$  7-8.

*Hab.* ad folia viva **Palmarum** in silvis uliginosis prope Peribeby **Brasilicæ**. —

3. **Myiocopron? Gironnieræ** Har. et Karst. Rev. Myc. 1890, n. 47. — 4183 Peritheciis hypophyllis, gregariis, nonnumquam confluentibus vel connatis, rugosiusculis, subcarbonaceis, ambitu cellulis seriatis hiphisque brunneis (sub lente) contextis, scutiformibus superficiali-

bus, tenuibus planis, fuscis, ostiolo atro, papillato-impresso, 1-2 mm. lat.

*Hab.* in foliis Gironnieræ in insulis Andaman.

**PIPTOSTOMA** Berk. et Br. Fungi of Ceylon n. 1135 (Etym. *pipto* cado et *stoma* ostiolum). — Perithecia minuta, plana; sporidia oblonga, curvula. — Genus hoc a vero *Piptostomo* Lév. Ann. Sc. Nat. 1846, p. 65, est distinguendum quia ascigerum (Cfr. Sacc. Syll. III, p. 183).

1. **Piptostoma spilotum** Berk. et Br. Fung. of Ceylon. n. 1135. — 4184  
Minutum, planum, cito circumscissum; ascis lanceolatis; sporidiis oblongis, curvulis, 6  $\mu$ . long.

*Hab.* in insula Ceylon.

**PEMPHIDIUM** Mont. — Sacc. Syll. II, p. 670.

1. **Pemphidium Pini** Karst. in Hedw. 1884, n. 4, p. 6, Rev. atque Synop. 4185  
Ascom. fenn. p. 88. — Peritheciis hic illic aggregatis, innato-superficialibus, applanatis, scutiformibus, papillatis, atris, opacis, exiguis; ascis fusoideo-clavatis, circ. 35  $\approx$  7; sporidiis octonis, distichis, elongato-fusoideis, guttulatis, hyalinis, circ. 9  $\approx$  2 (maturis haud visis); paraphysibus sat numerosis, filiformibus, bene discretis, gracillimis.

*Hab.* in cortice Pini silvestris ad Mustiala Fenniæ.

2. **Pemphidium punctoideum** Karst. Rev. Myc. 1888. — Peritheciis 4186  
sparsis v. subgregariis, planis, scutiformibus, atratis, opacis, orbicularibus, papillatis, perexiguis; ascis elongatis, leniter curvulis, 45-60  $\approx$  10-11; sporidiis octonis, di- vel tristichis, anguste fusiformibus, inferne cuspidato-attenuatis, curvulis, guttulis 5 majusculis ut plurimum præditis, chlorino-hyalinis, 22-35  $\approx$  3-4; paraphysibus haud discretis visis.

*Hab.* in cortice Rubi odorati in horto Mustialensi Fenniæ.

### Sect. 2. Phæosporæ.

**VIZELLA** Sacc. Syl. II, p. 662.

*Paravizella* (n. sp.)

1. **Vizella Hieronymi** Wint. in Hedw. 1885, p. 261. — Peritheciis epi- 4187  
phyllis, plerumque 2-3-constipatis, greges minutos rotundos vel irregulares formantibus, depresso hemisphærico-conoideis, atris, nitidis, 210-240  $\mu$ . latis; ascis oblongo-cylindræis, in stipitem brevem attenuatis, 8-sporis, 65-75  $\approx$  12; sporidiis subdistichis v. con-

globatis, elongato-ellipticis vel suboblongis, deorsum parum angustatis, utrinque rotundatis, fuscis, supra medium linea alba (septo?) notatis, ad basim appendicula brevi, verruciformi, fere hyalina v. fusca præditis, 12-14  $\approx$  5-6.

*Hab.* ad Trichiliæ Hieronimi folia viva, Argentina, Tabacal cerca Oran (КЕЕК).

2. **Vizella guaranítica** Speg. F. Guar. II, n. 121. — Peritheciis superficialibus, plus minus confertis, ex hemisphærico conoideis, 300-400  $\mu$ . diam., dimidiato-scutatis, adnatis, apice obtusis, astomis, atris, glabris, subnitentibus, sæpe basi areola strictissima, tenuicrustacea, opaca cinctis, carbonaceis, crassiusculis, duris, contextu indistincto, atro; ascis cylindræis, 8-sporis, mox diffluentibus; sporidiis navicularibus, utrinque acutiusculis, 16-18  $\approx$  10, oblique monostichis, opace fuligineis.

*Hab.* ad culmos dejectos putrescentes Bambusaceæ cujusdam in silvis inter Calle-poi et Yaguaron Brasiliæ.

### Sect. 3. Hyalodidymæ.

**MICROTHYRIUM** Desm. — Sacc. Syll. II, p. 662.

1. **Microthyrium paraguayense** Speg. Fungi Guar. Pug. I, n. 294. — 4189  
Maculis nullis; peritheciis epiphyllis, sparsis v. hinc inde laxe gregariis, parvulis, 150-160  $\mu$ . diam., orbicularibus, dimidiato-scutatis, atris, membranaceis, contextu eximie subparenchymatico-radiante, ostiolo minuto, rotundo donatis; ascis cylindræo-obclavatulis, apice truncato-rotundatis crasseque tunicatis, basi coarctatis minute nodoseque stipitatis, 30-32  $\approx$  8-10; paraphysibus simplicibus, parvis obvallatis, 8-sporis; sporidiis distichis, clavulatis, medio 1-septatis, constrictis, loculo supero crassiore subglobosoque, infero conico, 7-8  $\approx$  2, hyalinis.

*Hab.* ad folia viva Sapindaceæ cujusdam in silvis pr. Guarapí Brasiliæ.

2. **Microthyrium caaguazuense** Speg. Fungi Guar. Pug. I, n. 296. 4190  
— Subiculo tenuissimo, laxe arachnoideo, fusco, amphigeno, utrinque folium sæpe totum ambiente; peritheciis hinc inde in subiculo sparsis, dimidiato-scutatis, 150-200  $\mu$ . diam., membranaceo-coriacellis, fusco-atris, ostiolo vix perspicuo perforatis, ambitu fimbriatulis, contextu breviter prosenchymatico, peripherice pellucido, centrali opaco, olivaceo-fuligineo; ascis ovatis vel ellipticis, tunica modice incrassatula, utrinque acutato-rotundatis, crasse brevissime-

que pedicellatis,  $65 \approx 26$ , aparaphysatis, 8-sporis; sporidiis inordinatis, clavulatis,  $25 \approx 12$ , medio 1-septato-constrictis, loculo supero subgloboso, infero conoideo, utrinque obtusiusculis, hyalinis.

*Hab.* ad folia viva Myrtaceæ cujusdam in silva subvirginea, Caà-guazù vocata, Brasiliæ.

3. **Microthyrium longisporum** Pat. Bull. Soc. Myc. 1888, pag. 118, <sup>4191</sup>  
t. XX, f. 2. — Peritheciis epiphyllis, nigris, minutis, 600-800  $\mu$ . diam., sparsis, orbicularibus, dimidiatis, tenuibus, astomis, centro demum irregulariter laceratis, areola alba, tenui cinctis, contextu fragili, subradiante, brunneo, minute parenchymatico; ascis numerosis, sessilibus, ovoideis, membrana crassa, 6-8-sporis,  $90 \approx 52$ , aparaphysatis; sporidiis cylindræis, utrinque rotundatis, rectis v. subcurvis, 1-septatis, ad septum leniter constrictis,  $56-60 \approx 13-14$ , hyalinis.

*Hab.* in foliis coriaceis vivis, San Fernando de Atabapo Venezuelæ.

4. **Microthyrium antarcticum** Speg. F. Fueg. n. 280. — Peritheciis <sup>4192</sup>  
atris, hypophyllis, sparsis, superficialibus, orbiculari-scutatis, 100-110  $\mu$ . diam., membranaceis, subcoriacellis, contextu dense prosenchymatico-radiante, circa ostiolum (15  $\mu$ . diam.) subcarbonaceis, margine fimbriatulis; ascis cylindræis v. cylindræo-obclavatis, antice obtusis, rotundatis, crassiuscule tunicatis, minute 1-foveolatis, postice rotundato-cuneatis, in pedicellum brevissimum ac minutum productis,  $22-27 \approx 3,5-4,5$ , octosporis, aparaphysatis; sporidiis recte distichis, obovato-elongatis, utrinque obtusiuscule rotundatis,  $6,5-7 \approx 1,5-2$ , rectis v. vix subinæquilateralibus, 1-septatis, leniter constrictis, loculis minute 2-guttulatis, supero crassiore brevioreque, hyalinis.

*Hab.* ad folia dejecta Berberidis ilicifoliæ et Callixenis marginatæ in Staten island Fuegiæ Amer. austr.

5. **Microthyrium Melastomacearum** Speg. F. Puigg. n. 335. — Peri- <sup>4193</sup>  
theeciis hypophyllis, dense constipatis, plagulas orbiculares, 3-10 mm. diam., atras, granulosas, efficientibus, scutato-dimidiatis, 150-250  $\mu$ . diam., ostiolatis, membranaceis; ascis cylindræo-clavulatis, 60-80  $\approx 10$ , aparaphysatis; sporidiis clavulatis, didymis, hyalinis, 15-16  $\approx 4-5$ .

*Hab.* ad folia viva Melastomaceæ cujusdam in dumetis pr. Apiahy Brasiliæ. — Subiculum v. hypothallum plane deficientis.

6. **Microthyrium virescens** Speg. F. Puigg. n. 336. — Maculis are- <sup>4194</sup>  
scenti-pallescentibus, orbicularibus, mediocribus, 5-10 mm. diam.;



peritheciis hypophyllis, laxe gregariis, minutis, 80-100  $\mu$ . diam., ostiolatis, membranaceis; ascis ovatis, 35-40  $\times$  20-25, aparaphysatis; sporidiis obovatis, distichis, hyalinis, 14-15  $\times$  5-6.

*Hab.* ad folia viva *Eugeniæ* sp. cujusdam in silvis pr. Apiahy  
Brasiliæ.

7. **Microthyrium microspermum** Speg. F. Guar. II, n. 122. — Peri- 4195  
theeciis per hypophyllum densiuscule sparsis, hemisphærico-acuta-  
tis, 50-90  $\mu$ . diam., dimidiatis, atris, glabris, membranaceo-coria-  
cellis, contextu punctulato, parum distincto donatis, astomis, per  
ætatem centro subostiolatim laceris; ascis obclavulatis, apice trun-  
cato-rotundatis, crasseque tunicatis, basi stipite brevissimo crasse-  
que suffultis, 30  $\times$  8-9, aparaphysatis, 8-sporis; sporidiis 2-vel 3-  
stichis, elliptico-obovatis, medio 1-septalo-constrictis, 8-9  $\times$  3-4,  
hyalinis.

*Hab.* ad folia viva *Fici* *Ibapoy* in silvis subvirgineis prope  
Carapeguá Brasiliæ.

8. **Microthyrium amygdalinum** Cooke et Mass. in Grev. XIX, p. 90. 4196  
Peritheciis gregariis v. sparsis, amphigenis, superficialibus, mox de-  
ciduis, lenticularibus, membranaceis, atro-brunneis, centro pertu-  
sis, contextu radiato-parenchymatico; ascis clavatis; sporidiis inor-  
dinate dispositis, ellipsoideis, utrinque attenuatis, 1-septatis, hyali-  
nis, 14  $\times$  7.

*Hab.* in foliis viventibus *Eucalypti amygdalinæ*, Spencer's  
Gulf Australiæ.

9. **Microthyrium anceps** Passer. Diagn. Fungi nuovi, IV, n. 33. — 4197  
Peritheciis superficialibus, scutiformibus, circa maculas pallide ru-  
biginosas circinantibus v. in matrice immulata sparsis, atris, niti-  
dulis, orbicularibus v. ellipticis, aut etiam linearibus, planis v. le-  
niter carinatis, aut varie rugulosis, haud pertusis, pressione longi-  
trorsum fissilibus, contextu obscure celluloso, fuligineo v. subanhi-  
sto, margine integro; ascis aparaphysatis, globosis, 25  $\mu$ . diam. v.  
ovalibus, 25  $\times$  25, brevissime constricto-pedicellatis, 8-sporis; spo-  
ridiis elliptico-fusiformibus, conglobatis, medio septatis, vix con-  
strictis, hyalinis, 12,5-15  $\times$  5-6.

*Hab.* in foliis dejectis *Pini*, in agro Bononiensi Ital. bor. (Prof.  
CUGINI).

10. **Microthyrium thyriascum** Schulz. et Sacc. in Rev. Myc. 1884, 4198  
Schulz. Ill. fung. slav. n. 5. — Peritheciis punctiformibus, atris  
dimidiatis, impertusis (semper?), 250-300  $\mu$ . diam., applanatis, su-  
perficialibus; ascis obovato-saccatis, circ. 60  $\times$  30, aparaphysatis,

subsessilibus, apice rotundatis, octosporis; sporidiis 3-stichis, obovatis, constricto-1-septatis, loculo sup. obtusiore,  $19 \approx 10$ , hyalinis,

*Hab.* in ramis corticatis junioribus quercinis, Eperjes Slavoniæ. — Ascis sporidiisque crassis mox dignoscenda species.

11. **Microthyrium arcticum** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. 1, f. 16. — Peritheciis in foliis aridis amphigenis, superficialibus, vulgo gregariis, imo dense confertis, dimidiatis, minutis, 60-100  $\mu$ . diam., aterrimis, plus minus nitentibus, rugosis, centro perforatis; ascis  $35 \approx 7$ ; sporidiis distichis, hyalinis, bacilliformibus, medio septatis. 4199

*Hab.* in foliis aridis Potentillæ fragiformis, Nowaja Semlja.

12. **Microthyrium Abietis** Mout. Not. Ascom. pag. 79. — Peritheciis depresso conicis, 200  $\mu$ . diam., minutissime papillatis, atris; contextu fibroso-radiato, firmo, fere carbonaceo; ascis ovato-oblongis,  $40 \approx 13$ ; sporidiis distichis, hyalinis, prope medium septatis et vix constrictis, 4-guttulatis,  $17 \approx 5$ . 4200

*Hab.* in ramulis siccis Abietis Piceæ, Ebly Luxemburg (MARCHAL).

13. **Microthyrium Lagunculariæ** Wint. in Hedw. 1890, pag. 159. — Mycelio inconspicuo; peritheciis amphigenis, plerumque numerosis, sparsis, scutiformibus, centro parum elevato umbonatoque, haud pertusis, atris, subnitidis, siccis rugosiusculis, 450-500  $\mu$ . lat., e cellulis rotundis, fuscis formatis, in centro obscurioribus; ascis late ovoideis vel piriformibus, sessilibus, 8-sporis,  $30-40 \approx 21-25$ ; sporidiis conglobatis, oblongo-clavatis, parum inæquilateralibus, utrinque rotundatis, hyalinis, medio 1-septatis, constrictis,  $18-19,5 \approx 5-6$ . 4201

*Hab.* in foliis Lagunculariæ racemosæ, Sao Francisco Brasiliæ (E. ULE).

14. **Microthyrium idæum** Sacc. et Roum. in Rev. Myc. 1883, tab. 40, f. 14. — Peritheciis epiphyllis, dimidiato-applanatis, 250  $\mu$ . diam. atris, centro pertusis, margine hyphis fuliginis, remote septatis fimbriatis, contextu perithecorum minute denseque parenchymatico subradiato; ascis fusoido-obclavatis brevissime stipitatis, spurie (?) paraphysatis,  $50-55 \approx 12-15$ , octosporis; sporidiis 2-3-stichis, clavulatis, infra medium 1-septatis, vix constrictis, loculo superiore multo majore,  $18-22 \approx 4$ , dilute olivaceis. 4202

*Hab.* in foliis Vaccinii Vitis-idææ in Gallia.

15. **Microthyrium mauritanicum** Mont. Syll. pag. 261, Sacc. Syll. II, p. 664, Bacc. et Avett. Cont. Stud. myc. rom. p. 20, t. XVI, f. 7. 4203

— *Perithecia* sparsa vel interdum gregaria, punctiformia, dimidiato-scutata, obscure radiatim contexta, ostiolo rimoso dehiscencia, 100  $\mu$ . lata; asci obovato-oblongi, oblique et brevissime stipitati, ad apicem versus incrassati, 19  $\approx$  13, 8-spori; sporidia tristicha, elongata, curvula vel recta, hyalina, ad medium septata, 12  $\approx$  3.

*Hab.* in culmis *Arundinis mauritanicæ* Alger. Africae et *A. Donacis* ad sepes prope Roma Ital. centr.

16. **Microthyrium? fuegianum** Speg. F. Fueg. n. 281. — Peritheciis 4204 sparsis, superficialibus, atris, scutato-orbicularibus, 120-130  $\mu$ . d., tenui-membranaceis, contextu dilute fuligineo, laxe prosenchymatico-reticulato, margine non vel vix denticulatis, ostiolo impresso, lato, 30  $\mu$ . diam., pertusis; ascis obclavatis, apice truncatis, crasseque tunicatis, postice rotundatis, in pedicellum brevissimum crassumque productis, 30-35  $\approx$  6-8, octosporis, aparaphysatis; sporidiis di-tri-stichis, ellipticis vel subovato-elongatis, utrinque subtruncatis, 10  $\approx$  3, medio 1-septatis, constrictulis, loculis subæqualibus, primo grosse 2-guttulatis, hyalinis, postremo triseptatis.

*Hab.* ad culmos dejectos emortuos *Rostkoviæ grandifloræ* in Staten island Fuegiæ Amer. austr. — Species pulcherrima ob sporidia triseptata novi generis typum sistens. « An potius *Micropeltis?* ».

17. **Microthyrium gramineum** Bomm. Rouss. Sacc. sp. nov. — Peritheciis 4205 superficialibus, sparsis, nigro-griseis, perexiguis, 70-90  $\mu$ . d., suborbicularibus, pertusis; contextu tenuissime celluloso a centro umbonato radiante; ascis obovatis vel clavato-oblongis, 27-30  $\approx$  7,5-10, sessilibus, octosporis; sporidiis elliptico-fusoideis, hyalinis, 9  $\approx$  3, obsolete 1-septatis, 3-guttatis, loculis subinde inæqualibus.

*Hab.* in foliis *Psammæ arenariæ*, Ostende Belgii.

18. **Microthyrium? madagascarense** Karst. et Her. Rev. Myc. 1890 4206 Oct. — Peritheciis hypophyllis, sparsis, superficialibus, dimidiatis, scutato-convexulis, submembranaceis, suborbiculatis, rugosiusculis, atris, opacis, margine membrana applanata, adpressa, tenuissima, cuticulari, albida v. hyalina aucta, centro poro impresso pertusis, circ. 0,4 mm. lat.

*Hab.* in foliis ignotis, Mayotte Madagascar (BOIVIN). — Genus ob defectum sporidiorum incertum.

19. **Microthyrium xylogenum** Bomm. Rouss. Sacc. sp. nov. — Peri- 4207 theciis gregariis superficialibus, subcircularibus, convexo-applanatis, centro pertusis, 100-120  $\mu$ . diam., atro-nitentibus, radiato-

contextis; ascis aparaphysatis, tereti-obclavatis,  $36 \approx 8-9$ , subsessilibus, apice rotundatis, sæpius curvis, octosporis; sporidiis distichis, tereti-oblongis, utrinque obtusulis, 1-septatis, haud constrictis, rectis, 2-4-guttatis,  $11-13 \approx 2-2,5$ , hyalinis.

*Hab.* in fragmentis ligneis Fagi silvaticæ socio *Pleococco harposporo*, Groenendaël Belgii. — A *M. microscopico* peritheciis minoribus margine vix fimbriatis, magis robustis; nitidis, convexioribus etc. dignoscitur.

20. **Microthyrium pulchellum** Speg. Fungi Guar. Pug. I, n. 295 — 4208

Maculis nullis; peritheciis hypophyllis, densissime congestis, maculas crustaceas, irregulariter orbiculares, 2-3 mm. diam., sparsas, non confluentes, atras vel sordide glaucescenti-atras, non vel vix subpulvinatulas, subpapillosulas efficientibus, parvulis, 130-180  $\mu$ . diam., dimidiato-scutatis, orbicularibus, sæpe confluentibus ac e mutua pressione angulosis, atris, minutissime rugulosis, poro parum perspicuo pertusis; contextu dense prosenchymatico-radiante, pulchre concentrice, zonato, fuligineo-atro, subopaco; ascis cylindraceo-clavatis, brevissime stipitatis,  $30 \approx 10$ , aparaphysatis?, 8-sporis; sporidiis primo fusoido-clavulatis, medio 1-septatis, non constrictis, apicibus appendice minutissima, globosa v. penicillata ornatis, dein clavulatis ad septum constrictis, utrinque exappendiculatis obtusiusculisque, hyalinis.

*Hab.* ad folia viva Blechni spec. cujusdam in silva Caaguazû Brasiliæ.

21. **Microthyrium epimyces** Sacc. Bomm. et Rouss. Fl. myc. Belg. II, 4209

p. 23, Rehm Ascom. n. 899. — Peritheciis superficialibus, dense confertis, fere totam superficiem *Eutypæ flavovirescentis* obtegentibus, circ. 130  $\mu$ . diam., nigris, lenticularibus, integris, centro umbonatis; contextu radiatim parenchymatico; ascis fasciculatis, sessilibus, oblongo-ventricosis,  $36-42 \approx 15$ , 8-sporis, paraphysibus ramosis, parum distinctis; sporidiis hyalinis, subfusiformibus, obtusis, subcurvatis, 1-septatis, ad septum constrictis, 4-guttulatis,  $18 \approx 6$ , 2-3-stichis.

*Hab.* ad ramos vetustos Pruni spinosæ, Yvoir Belgii (Dominæ BOMMER et ROUSSEAU).

22. **Microthyrium Visci** Rich. Cat. Champ. Marn. n. 1490 (absque 4210 diagnosi).

*Hab.* in ramulis siccis Visci albi, sociis *Camarosporio Visci* et *Anthostomella Visci*, Marne Galliæ.

23. **Microthyrium Platani** Rich. Cat. Champ. Marn. n. 1491 (absque 4211  
diagnosi).

*Hab.* in foliis Platani orientalis, Marne Galliæ.

**CHÆTOTHYRIUM** Speg. F. Guar. II, n. 123 (Etym. *chæte*, seta et  
*thyrium* fenestra). — Perithecia minuta, scutato-dimidiata, atra, se-  
tulosa, subiculo destituta. Asci 8-sporis, aparaphysati. Sporidia di-  
dyma, hyalina. — Genus pulchellum a *Microthyrio* peritheciis se-  
tulosus distinctum.

1. **Chætothyrium guaraniticum** Speg. F. Guar. II, n. 123. — Maculis 4212  
nullis; peritheciis epi- v. hypo-phyllis, sparsis, scutato-dimidiatis,  
minutis, 100-150  $\mu$ . diam., atris, astomis, tenui-membranaceis, pel-  
lucidis, contextu centro subparenchymatico, margine mucoso-eva-  
nescente pallideque olivaceo donatis, superne pilis paucis (8-12) ere-  
ctis, rectis, rigidulis, 50-120  $\approx$  5, basi subbulbosis, atris, opacis or-  
natis; ascis cylindraceutis, clavulatis v. subobclavatis, superne sub-  
truncato-rotundatis, crasseque tunicatis, inferne cuneatis, pedicello  
breviusculo crassoque suffultis, 40  $\approx$  10, aparaphysatis, 8-sporis;  
sporidiis recte v. oblique distichis, ellipticis v. subobovatis, utrin-  
que obtusiusculis, 10-14  $\approx$  4-5, medio 1-septatis (an postremo 3-  
septulatis?), non v. vix constrictis, hyalinis.

*Hab.* ad folia viva sp. indet. Solanaceæ? in dumetis pr. Gua-  
rapì Brasiliæ.

**CLYPEOLUM** Speg. — Syll. II, p. 667.

1. **Clypeolum zeylanicum** Cooke et Mass. in Grev. XVII, p. 43 et 4213  
XVIII, p. 35. — Peritheciis sparsis, superficialibus, dimidiato-scu-  
tatis, atris, nitidis,  $\frac{1}{4}$  mm. diam., macula nulla v. brunnea et in-  
determinata insidentibus; ascis clavatis; sporidiis ellipticis, unise-  
ptatis, hyalinis, 11  $\approx$  3.

*Hab.* in foliis coriaceis, Ceylon Asiæ austr. nec non in Brasilia.

2. **Clypeolum dothideoides** Speg. F. Puigg. n. 339. — Peritheciis epi- 4214  
phyllis, sparsis, scutato-adnatis, minutis, 250-300  $\mu$ . diam., atris,  
nitentibus, sæpius areola fusco-purpurascente cinctis; ascis cylan-  
draceutis, 75-80  $\approx$  8-10, aparaphysatis; sporidiis oblique monostichis,  
cylindraceuto-ellipticis, hyalinis, primo continuis, dein 2-blastis (po-  
stremo 1-septatis?), 15  $\approx$  5.

*Hab.* ad folia viva Myrtaceæ cujusdam in silvis pr. Apiahy  
Brasiliæ. — Species pulchella, habitu nec non omnium partium fa-  
brica *dothideacea*, sed sine ullo dubio peritheciis non innatis, a

matrice heterogeneis atque dimidiato-scutatis donata et tandem *microthyriacea*.

3. **Clypeolum Loranthei** Karst. et Har. Rev. Myc. 1890 Oct. — Peri-<sup>4215</sup>  
 theciis gregariis, sæpissime confluentibus, macula pallescente insi-  
 dentibus, sæpius hypophyllis, superficialibus, dimidiato-scutatis, car-  
 bonaceis, orbicularibus v. difformibus, plano-convexulis, rugulosis,  
 opacis, astomis, glabris, atris, circ. 0,5 mm. lat.; ascis cylindraco-  
 clavatis, circ. 80 = 15-17; sporidiis tristichis, fusoideo-elongatis,  
 rectis, 1-septatis, hyalinis, 20-22 = 4-5; paraphysibus haud bene  
 discretis.

*Hab.* ad folia Loranthei, Timor Oceaniæ (HOMBRON).

**TRICHOthyRIUM** Speg. F. Puigg. n. 342 (Etym. *thrix*, seta et *thyron*  
 fenestra). — Mycelium laxum, glabrum, atrum, ex hyphis parce  
 ramosis, utrinque latiuscule appendiculato-membranaceis atque ap-  
 planato-vittiformibus efformatum. Perithecia superficialia, subiculo  
 insidentia v. cincta, dimidiato-scutata, contextu prosenchymatico-  
 radiante, atro. Asci 8-spori. Sporidia didyma, hyalina. — «Cfr.  
*Asterina*., cui genus peraffine videtur».

1. **Trichothyrium sarciniferum** Speg. F. Puigg. n. 342. — Hyphis my-<sup>4216</sup>  
 celialibus hyphopodiis suboppositis, obovatis, 20 = 10, pedicellatis,  
 præditis, 10  $\mu$ . cr. hinc inde ad marginem membranæ appendicularis  
 conidia cruciatim tetramera, sarciniformia, 20 = 15, asperula geren-  
 tibus; peritheciis sparsis v. hinc inde laxè aggregatis, dimidiato-  
 scutatis, minutis, 120-200  $\mu$ . diam., ostiolatis, glabris; ascis ob-  
 clavatis, 45-56 = 12-18, aparaphysatis; sporidiis obclavatis, 1-se-  
 ptatis, loculo supero, minore, hyalinis, 20 = 5.

*Hab.* ad folia coriacea Myrtaceæ cujusdam in silvis prope  
 Apiahy Brasilæ. — An huc *Micropeltis asterophora* B. et Br.?

2. **Trichothyrium? serratum** Speg. F. Puigg. n. 343. — Hyphis my-<sup>4217</sup>  
 celialibus hyphopodiis ac conidiis destitutis, 10-15  $\mu$ . cr.; perithe-  
 ciis sparsis v. hinc inde laxè aggregatis, dimidiato-scutatis, 100-  
 120  $\mu$ . diam., ostiolatis, bitunicatis; ascis ovatis, 30-35 = 14-16, apa-  
 raphysatis; sporidiis elliptico-ovatis, loculis subæqualibus, hyali-  
 nis, 14 = 5.

*Hab.* ad folia viva Convolvulaceæ? cujusdam in dumetis  
 pr. Apiahy Brasilæ. — Hyphæ hujus speciei *Cactææ* e genere  
*Epiphylllo* simillimæ. An generis novi typus ob perithecia bitu-  
 nicata?

**BREFELDIELLA** Speg. F. Puigg. n. 344 (Etym. a Clar. O. BREFELD).  
 — Perithecia dimidiato-scutata, mytiliformia, postice loricato-confluentia, ostiolo rotundo v. subrimoso, contextu prosenchymatico-radiante atro donata. Asci 8-spori. Sporidia 1-septata, hyalina.  
 — Genus pulchellum inter *Hemhysteriaceas* et *Microthyriaceas* medium.

1. **Brefeldiella brasiliensis** Speg. F. Puigg. n. 344. — Peritheciis 4218  
 obovato-spathulatis, v. mytiliformibus, postice lenissime imbricato-confluentibus, minutis, 120-130  $\approx$  6-80, maculas crustaceas, parvulas, 0,5-1 mm. diam., atras, superficiales, difformes efficientibus; ascis ellipticis, 35  $\approx$  12-14, apapophysatis; sporidiis didymis, hyalinis (an semper?), 12  $\approx$  4.

*Hab.* ad folia viva Bambusaceæ cujusdam in uliginosis pr. Apiahy Brasilæ. — An sporidia demum 3-septata et fusca?

**POLYSTOMELLA** Speg. F. Guar. II, n. 137 (Etym. *polys* multus et *stoma* ostiolum). — Stroma membranaceo-coriacellum, tenue dimidiato-scutatum, majusculum, superne plus minus dense pluri-perforato-ostiolatum, inferne dense strictissimeque ruguloso-reticulatum, atrum, subiculo carens. Asci in ansulis (loculis?) hypostromaceis constipati, subcylindranei, paraphysati, 8-spori. Sporidia didyma, hyalina.

1. **Polystomella pulcherrima** Speg. F. Guar. II, n. 137. — Stromati- 4219  
 bus epiphyllis, dimidiato-scutatis, 0,5-2 mm. diam., atris, glabris, levibus, opacis, membranaceo-coriacellis, tenuiusculis, rigidulis, contextu indistincto, poris (luce interjecta) 20-30-perforatis, inferne subimperspicue ruguloso-reticulatis; loculis (vel ansule reticulis) subdifformibus, minutis, 80-100  $\mu$ . diam., rugula vix evoluta sæpeque oblitterata separatis, ostiolo rotundo donatis; ascis cylindraneo-obclavulatis, 50-70  $\approx$  12-15, superne obtuse rotundatis, crassiusculeque tunicatis, inferne brevissime crasseque pedicellatis, parce paraphysatis, 8-sporis; sporidiis subclavulatis, 1-septatis, non v. vix constrictulis, 13-16  $\approx$  5, loculo supero brevioris subcrassioreque, hyalinis.

*Hab.* ad folia viva Solani bœrhaviaefolii et Rubiaceæ cujusdam prope Guarapi et Apiahy Brasilæ.

2. **Polystomella Scutula** (B. et Br.) Speg. F. Puigg. n. 345, *Dothidea Scutula* B. et B. — Syll. II, f. 632 sub *Dothidella*.

## Sect. 4. Phæodidymæ.

**SEYNESIA** Sacc. Syll. II, p. 668.

- Seynesia*  
1. **Seynesia grandis** (Niessl) Winter in Hedwigia 1886, p. 107, *Microthyrium grande* Niessl in Rab. Fungi Europ. n. 2467. — Peritheciis gregariis, sæpissime confluentibus, superficialibus, sine mycelio distincto, e basi suborbiculatis, planis, parum convexis, disciformibus seu clypeiformibus, centro pertusis, ambitu definito, radiante, atris, opacis, rugulosis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ascis oblongis, rarius magis elongatis, fere sessilibus, 8-sporis, 80-90  $\approx$  20-25; sporidiis inordinatis vel subdistichis, oblongis vel oblongo-subclavatis, medio uniseptatis et valde constrictis, utrinque rotundatis, rarius acutiusculis, dilute fuscis, cellula superiori latiori, sæpe inæqualateralibus, 24-30  $\approx$  9-10.

*Hab.* ad scapos aridos Calami spec., Calcutta Ind. (KURZ).

- Melanconium*  
*navigans*  
2. **Seynesia asterinoides** (Pat.) Sacc., *Microthyrium* Pat. Journ. Bot. 1888, p. 150. — Maculis hypophyllis, tenuibus, e mycelio gracili, brunneo, ramoso formatis; peritheciis orbicularibus, ostiolatis, applanatis, 200-300  $\mu$ . diam., contextu radiato; ascis globosis, 30-35  $\mu$ . diam., membrana crassa, aparaphysatis, 8-sporis; sporidiis 1-septatis, loculis interdum subinæqualibus, ad septum constrictis, utrinque obtusis, brunneis.

*Hab.* in foliis Graminacearum, Chili, socia *Asterina Leveillei* sed in pagina inferiore.

- Opastrella*  
3. **Seynesia guaranítica** Speg. Fungi Guar. Pug. I, n. 299. — Subiculo epiphylo, rarissime parce hypophyllo, laxe arachnoideo, tenuissimo subcrustaceo, atro, ex hyphis repentibus, flexuosis, septatis, 4-5  $\mu$ , crass., ramosis composito, folium sæpe totum ambiente; peritheciis scutato-dimidiatis, hinc inde densiuscule aggregatis, parvulis, 150  $\mu$ . diam., atris, astomis, lacero-dehiscentibus, margine densissime ac tenuiter reticulato-fimbriatis, contextu eximie prosenchymatico-radiante, olivaceo, subopaco; ascis non visis; sporidiis ellipticis v. vix inæqualateralibus, medio 1-septatis, leniter constrictis, utrinque obtusiuscule rotundatis, 25  $\approx$  10, loculis subæqualibus, opace fuliginis, non v. 1-guttulatis.

*Hab.* ad folia viva Trichiliæ spec. cujusdam in silvis prope Piragù Brasiliæ.

- Microthyrium*  
4. **Seynesia piraguensis** Speg. Fungi Guar. Pug. I, n. 298. — Maculis nullis; peritheciis sparsis vel hinc inde laxe gregariis, sub-



culo deficientibus, atris, dimidiato-scutatis, 200  $\mu$ . diam., per ætatem medio stellatim dehiscentibus, contextu eximie radiante, fuligineo, subopaco; ascis globosis, 45  $\mu$ . diam., aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis v. elliptico-ovatis, utrinque obtusiusculis, 20-22  $\times$  9-10, medio 1-septato-constrictis, rectis vel inæquilateralibus, loculis vix inæqualibus, primo hyalinis, dein dilute fuscis.

*Hab.* ad folia viva Laurinææ cujusdam pr. Piragú Brasiliæ.

5. **Seynesia Balansæ** Speg. Fungi Guar. Pug. I, n. 297. --- Maculis 4224

nullis; subiculo tenuissimo, sæpius epiphylo, orbiculariter expanso, sparso v. sæpe totum folium ambiente, atro, velutino, hyphis simplicibus vel ramosis, flexuosis repentibus vel vix subrectis, densiuscule septulatis, gracilibus, 3-4  $\mu$ . crass., fuligineis composito; peritheciis in subiculo laxè sparsis, hemisphærico-dimidiatis, parvulis, 100-200  $\mu$ . diam., atris, levibus, glabris, tenui-membranaceis, contextu eximie prosenchymatico-radiante, margine in hyphas tenuiores, flexuosas, simplices vel furcatas, repentis, gracillimas producto, olivaceo, ostiolo fimbriato, stellatim dehiscente (præcipue sub pressione) donatis, 8-16 ascos gerentibus; ascis subrotundato-piriformibus, antice obtusissime latissimeque truncato-rotundatis crasseque tunicatis, postice cuneatis, brevissime nodoseque stipitatis, 30-40  $\times$  20-32, octosporis, aparaphysatis; sporidiis conglobatis, ovatis, medio 1-septatis, validule constrictis, utrinque obtusis, 15-17  $\times$  7-9; loculis non v. 1-guttulatis, supero crassiore, primo hyalinis dein fuligineis et subopacis.

*Hab.* ad folia viva arborum vulgatissima in silvis pr. Guarapi Brasiliæ. — forma **Myrtacearum**: subiculo sæpius epiphylo, denso; peritheciis membranaceis, 100-150  $\mu$ . diam.; ascis piriformibus, 30-35  $\times$  25-27; sporidiis elliptico-clavulatis, 15  $\times$  6. — f. **Macluræ**: subiculo sæpius epiphylo, denso; peritheciis membranaceis 80-100  $\mu$ . diam.; ascis piriformibus, 30  $\times$  25; sporidiis ovoideis, 15  $\times$  7. — f. **Acanthacearum**: subiculo amphigeno sparso; peritheciis membranaceis, 60-70  $\mu$ . diam.; ascis piriformibus, 25-30  $\times$  20-22; sporidiis elliptico-ovoideis, 15  $\times$  7-8. — f. **Solani** sp. cuj.: subiculo epiphylo, laxè aggregato; peritheciis coriacellis, 150-200  $\mu$ . diam.; ascis piriformibus, 35-40  $\times$  25-32; sporidiis ovoideis, 14-16  $\times$  7-8. — f. **Solani verbascifolii**: subiculo epiphylo, laxo; peritheciis membranaceis, 100-120  $\mu$ . diam.; ascis globoso-ovoideis (an muco immersis?) 30  $\times$  20-25; sporidiis elliptico-ovoideis, valide constrictis, 18  $\times$  10.

6. *Seynesia paraguayensis* Speg. Fungi Guar. Pug. I, n. 300. — 4225

*Clypeodella*  
Maculis hypophyllis, parvulis, 3-5 mm. indeterminatis, fuscis; subiculo maculiformi, 2-5 mm. diam., crustaceo-subvelutino, atro, orbiculari, hinc inde sparso, ex hyphis laxè intricatis, gracilibus, simplicibus vel parce ramosis, 3-5  $\mu$ . crassis, parce septulatis, ramulis densis, breviusculis, 9-11  $\approx$  4-5, distichis (fere ut in *Melio-la*), olivaceis ornatis composito; peritheciis scutato-dimidiatis, 100-150  $\mu$ . diam., atris, opacis, glabris, primo astomis dein stellatim dehiscentibus, contextu indistincto, ascis globosis, 30-40  $\mu$ . diam., 6-8 in quoque perithecio, aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis, rectis, medio 1-septatis, leniter constrictis, utrinque obtusiusculis, 20-25  $\approx$  10, loculis crasse 1-guttulatis, supero majore crassioreque, opace fuliginèis.

*Hab.* ad folia viva Bignoniacæ spec. cujusdam in silvis pr. Peribeby Brasilæ.

7. *Seynesia melanosticta* Cooke et Mass. in Grev. XVIII, p. 34. — 4226

*Microspella*  
Epiphylla; peritheciis sparsis, solitariis, dimidiatis, basi concretis, vix  $\frac{1}{2}$  mm. diam., atris, nitidis, ostiolo pertuso; ascis cylindræis, 8-sporis; sporidiis uniseriatis, ellipticis, uniseptatis, vix constrictis, pallide fuscis, 10  $\approx$  3-5.

*Hab.* in foliis viventibus *Alsodeiæ* sp. n. Mount Ophir, Malacca Asiæ austr.-orient. (R. W. HULLETT).

8. *Seynesia Caronæ* Passer. Diagn. Fungi nuovi, III, n. 44. — 4227

*Seynesia*  
Peritheciis sparsis, minutis, scutiformibus, atris, centro papillatis et pertusis, contextu radiato, fuliginèo, margine fimbriatis et hyphis tenuibus, hyalinis, radiaantibus, nonnullis quoque crassioribus, fuliginèis præditis; ascis cylindricis vel apice sensim attenuatis, aparaphysatis, rectis vel curvis, 40-50  $\approx$  7,5, 8-sporis; sporidiis subdistichis, ellipticis, medio septatis, non constrictis, fuscidulis, 10  $\approx$  4,5.

*Hab.* in cortice ramorum exsiccatorum *Spartii juncei* pr. Carona in agro Parmensi Ital. bor.

9. *Seynesia pulchella* Bomm. Rouss. Sacc. sp. nov. — Peritheciis 4228

*Seynesia*  
convexo-scutelliformibus, nigris, 45-110  $\mu$ . diam., centro late pertusis; ascis oblongis, 30-36  $\approx$  9-13, sessilibus, octosporis; sporidiis distichis, oblongis v. subfusoidèis, 1-septatis, olivaceo-brunneis, 2-4-guttulatis, 11-15  $\approx$  4-6; paraphysibus copiosis, tortuosis, ascos superantibus.

*Hab.* in ramis siccis *Sarothamni scoparii*, Ebly Belgii. — Ascis crassioribus, sporidiis longioribus a præcedente differre videtur, an satis?

10. **Seynesia variolosa** Speg. F. Puigg. n. 363. — Peritheciis epiphyllis, subcircinatis, plaglulas minutas, 0,5-2 mm. diam., orbiculares, dense varioloseque sparsas, subcrustaceas efficientibus, minutis, 120-150  $\mu$ . diam., coriacellis, atris; ascis e globoso cylindraceis, 28-30  $\approx$  18-20, aparaphysatis; sporidiis obovatis, 12  $\approx$  5-6, loculo infero minore, 4-5  $\approx$  4-5, altero 12  $\approx$  5-6, fuligineis. 4229
- Hab.* ad folia viva Myrtaceæ cujusdam in silvis pr. Apiahy Brasiliæ. — Subiculum omnino nullum.
11. **Seynesia australis** Speg. F. Fueg. n. 282. — Maculis orbicularibus, 2-3 mm. diam., epiphyllis, albescenti-cinereis v. fusciscentibus, determinatis, linea prominula, obscuriore limitatis; peritheciis in macularum centro laxe gregariis, innato-superficialibus, scutato-orbicularibus, 75-80  $\mu$ . diam., atris, glabris, subcoriacellis, contextu dense parenchymatico, fusco-atro, subimperspicuo, ostiolo minuto impresso, 5-6  $\mu$ . diam., pertusis; ascis obovatis v. piriformibus, ubique crassissime tunicatis, basi in pedicellum brevem crassumque desinentibus, 25-30  $\approx$  10-15, 4-6-8-sporis, mox diffluentibus, aparaphysatis; sporidiis opace fuligineis, 13-14  $\approx$  6-7, excentrice septatis, constrictis, loculo supero, obovato, majusculo, infero, subgloboso duplo minore. 4230
- Hab.* ad folia viva v. languida Drymidis Winteri in Staten island Fuegia. — Species pulchella ob sporidiorum formam facile novi generis typum sistens. Cfr. *Asterina compacta* Lév.
12. **Seynesia? megalothecia** Speg, F. Puigg. n. 360. — Peritheciis maximis, 1-1,5 mm. diam., superficialibus, membranaceis, atris; ascis globoso-ovatis, 50-60  $\approx$  45-50, aparaphysatis; sporidiis obovatis, didymis, dein fuligineis, 30  $\approx$  16, loculo supero 12  $\approx$  16, infero 16-18  $\approx$  12. 4231
- Hab.* ad folia viva Sebastianiæ sp. cujusdam in silvis prope Apiahy Brasiliæ. — Species pulchella mox dignoscenda, sæpius a *Dimerosporio Asterinarum* Speg. oblitterata.
13. **Seynesia olivascens** Speg. F. Puigg. n. 361. — Peritheciis pusillis, neurophilis, atris, 80-90  $\mu$ . diam., maculas fuscescentes dendritico-ramulosas reticulatas 2-16 mm. efficientibus; ascis clavulatis, 30  $\approx$  12, aparaphysatis; sporidiis obovatis, loculo infero minutissimo, supero 3-4-plo longiore, olivaceis, 10-11  $\approx$  4. 4232
- Hab.* ad folia viva Myrtaceæ et Xanthoxyleæ cujusdam in silvis pr. Apiahy Brasiliæ.
14. **Seynesia pachysperma** Speg. F. Puigg. n. 362. — Maculigena; peritheciis laxe gregariis, coriacellis, 150-200  $\mu$ . diam.; ascis glo-

*Anisothelium*  
Speg.  
(n. gen.)

bosis, 55-65  $\approx$  40-60, aparaphysatis; sporidiis majusculis, obovatis, subexcentrice 1-septatis, fuligineis, 32-42  $\approx$  18-20.

*Hab.* ad folia coriacea viva plantæ ignotæ in silvis pr. Apialy Brasiliæ. — Maculæ epiphyllæ irregulariter suborbiculares 3-6 mm. diam., olivascentes, submucedineo-furfuraceæ (an thallus vestustus?) subdeterminatæ.

### Sect. 5. Phragmosporæ.

**SCUTELLUM** Speg. — Sacc. Syll. II, p. 668.

1. **Scutellum guaraniticum** Speg. Fungi Guar. Pug. I, n. 301. — Maculis nullis; subiculo parcissimo plus minusve effuso, fusco, innato, fere lichenino, conidiis tamen carente; peritheciis paucis, epiphyllis, hinc inde 3-5 laxè aggregatis, discoideis, dimidiato-scutatis, parvulis, 130-160  $\mu$ . diam., atris, coriaceis, glaberrimis, nitentibus, ostiolo minuto, rotundo, 15  $\mu$ . diam., perforatis, contextu indistincto, atro, opaco; ascis cylindræis, antice truncato-rotundatis, crassissime tunicatis, postice attenuatis, breviter crasseque pedicellatis, 50  $\approx$  15-18, aparaphysatis, 8-sporis; sporidiis distichis, ovoideis, sursum rotundato-subtruncatis, postice acutiuscule obtusatis, oculis duobus superis fuligineis, supremo centrali duplo longiore, infimo hyalino, fere appendiculari, 12-14  $\approx$  5-6. 4234

*Hab.* ad folia viva Pilocarpi pinnatifoliæ in silvis subvirgineis prope Paraguarî Brasiliæ.

**TRICHOPELTIS** Speg. F. Puigg. n. 364 (Etym. *thrix*, *trichos* seta et *pelle* scutum). — Mycelium e fibris pro ratione majusculis, membranaceo-applanatis, vittiformibus, non costatis, dendritico-ramulosis, prosenchymatico-contextis eformatum. Perithecia superficialia v. fibris tecta, dimidiato-scutata, parvula, ostiolata. Asci 8-spori. Sporidia 2-septata, hyalina.

1. **Trichopeltis reptans** (B. et Br.) Speg. F. Puigg. n. 364, *Asterina* B. et C. — Syll. I, p. 46. — Hæc species sistit typum generis nobilissimi.
2. **Trichopeltis pulchella** Speg. F. Puigg. n. 364. — Vittis mycelii 4235 membranaceo-pellucidis, prosenchymaticis, olivaceis, laxè ramoso-intricatis, longiusculis atque latiusculis, 2-12 mm. long., 80-100  $\mu$ . diam.; peritheciis pusillis, 70-90  $\mu$ . diam., ostiolo rotundo perforatis; ascis obovatis, 25  $\approx$  14, aparaphysatis; sporidiis, elliptico-obovatis, minutis, 2-septatis, hyalinis, 10-12  $\approx$  3.

*Hab.* ad folia Myrtacearum in dumetis pr. Apiaby Brasiliæ. — Species *Asterinæ Labeculæ* affinis sed specimina ad comparandum desunt et descriptio nimis manca.

**MICROPELTIS** Mont. — Sacc. Syll. II, p. 669.

1. **Micropeltis applanata** Mont. — Sacc. Syll. II, p. 669, \***M. depauperata** Sacc. et Berl. Misc. Myc. II, p. 6. — Peritheciis amphigenis,  $\frac{1}{3}$  mm. diam., convexulo-applanatis, atris, dein centro hiantibus; contextu subradiante; ascis oblongo-clavatis, breve, sæpe oblique stipitatis, apice rotundatis crasseque tunicatis, 45-50  $\approx$  18-21, 4-6-sporis; sporidiis fusoides, curvulis, initio leniter mucosis, 18-20  $\approx$  4,5-5,5, spurie 1-3-septatis, hyalinis.

*Hab.* in foliis languidis Eucalypti tereticornis, Logan Australiæ.

2. **Micropeltis æruginosa** Winter in Hedwigia 1886, p. 100. — Peritheciis epiphyllis, sparsis, orbiculari-scutatis, depressis, ambitu mycelio densissime intertexto, ex hyphis ramosissimis, tenuissimis, æruginosis formato anguste cinctis, vertice irregulariter dehiscens, intense æruginosis, 360-470  $\mu$ . diam.; ascis elongatis, utrinque attenuatis, apice rotundatis, basi stipitiformi, 8-sporis, 140-175  $\approx$  21-24; sporidiis inordinatis, elongato-fusoides, curvulis, deorsum magis longeque attenuatis, 10-12-septatis, ad septa constrictis, hyalinis, cellula 5.<sup>a</sup> vel 6.<sup>a</sup> latissima, 60-74  $\approx$  9-10,5.

*Hab.* in foliis vivis, St. Thomè Afr. occ.

3. **Micropeltis Pinastri** (Fuck.) Karst. Hedw. 1888, p. 103, *Microthyrium* Fuck. — Syll. II, p. 664. — Perithecia sparsa, superficialia, orbicularia, scutata, papillata, atra, exigua; asci ovoidei v. clavati, curvuli, 30  $\approx$  9, octospori; sporidia conglobata fusoidelongata, subrecta, 4-guttata, vel spurie 3-septata, 8-9  $\approx$  2. — Nascitur quoque in acubus Pini silvestris in regione Aboënsi Fenniæ.

4. **Micropeltis albo-marginata** Speg. F. Puigg. n. 365. — Peritheciis dimidiato-scutatis, sparsis, majusculis, coriaceis, 300-400  $\mu$ . diam., atris; ascis fusoides-cylindratis, 65-70  $\approx$  15, aparaphysatis; sporidiis fusoides-clavulatis, 3-4-septatis, hyalinis, 18-20  $\approx$  4.

*Hab.* ad folia viva Eugeniæ sp. cujusdam in nemorosis pr. Apiaby Brasiliæ. — *M. applanatæ* peraffinis, peritheciis majoribus tamen sporidiisque minoribus recedens. Subiculum nullum.

5. **Micropeltis? membranacea** Speg. F. Puigg. n. 366. — Peritheciis dimidiato-scutatis, minutis, 80-90  $\mu$ . diam., margine longe fimbria-

*Microthyrium*

*Microthyrium*

*Micropeltis*

- 1070 Pyrenomycetæ, Microthyriaceæ, Phragmosporæ, Micropeltis.  
tis, aggregato-confluentibus, crustam tenuissime membranaceam, atram efficientibus; ascis ovatis, 35-40  $\times$  20-22, aparthysatis; sporidiis clavulatis, 4-pseudoseptatis, hyalinis, 16  $\times$  5.  
*Hab.* ad folia subcoriacea plantæ cujusdam ignotæ in silvis pr. Apiahy Brasiliæ.
6. **Micropeltis maculata** Cooke et Mass. in Grev. XVIII, p. 35. — 4240  
Epiphylla maculiformis; peritheciis dimidiatis, orbiculari-convexulis, minutis, atris, nitidis, macula fuliginea, irregulari congregatis, ostiolo pertuso; ascis clavatis, 8-sporis; sporidiis fusiformibus, tri-septatis, hyalinis, 14-15  $\times$  3-4.  
*Hab.* in foliis coriaceis in Brasilia (GLAZIOU).
7. **Micropeltis depressa** Cooke et Mass. in Grev. XVII, pag. 43. — 4241  
Epiphylla; peritheciis dimidiatis, depressis, orbicularibus, atris, opacis, centro poro pertusis, ambitu plano, circ.  $\frac{1}{2}$  mm. diam.; ascis clavatis, substipitatis; sporidiis lanceolatis, triseptatis, hyalinis, 35-38  $\times$  8-9.  
*Hab.* in foliis Colæ acuminatæ in insula Fernando Po Africæ occid.
8. **Micropeltis æquivoca** Passer. Diagn. Fungi nuovi, I, n. 69. — Pe- 4242  
ritheciis minimis, sparsis v. laxe gregariis, epidermide innatis, scutatis, astomis, atris, tandem deciduis, membranaceis, contextu fumoso, obscure celluloso, margine subfibroso, hyphis repentibus, torulosis, fumosis accedentibus; ascis aparthysatis, subglobosis vel ovatis, 25-30  $\times$  20-25 v. interdum (an madore?) oblongo-clavatis, 60  $\times$  15; sporidiis octonis, conglobato-tristichis, in ascis oblongatis bi- subtristichis, oblongo-ellipticis v. subspathulatis, quadrisep-tatis, hyalinis, 12-17,5  $\times$  5.  
*Hab.* in ramulis siccis Pruni Cerasi, Vigheffio pr. Parma Ital. bor.
9. **Micropeltis Oleandri** Br. et Har. Rev. Myc. 1891, p. 16. — Peri- 4243  
theeciis punctiformibus, gregariis, confertis, superficialibus, nigris, poro pertusis, 0,5 mm. diam.; ascis ovoideo-oblongis v. cylindra-ceo-clavatis, sessilibus v. breviter stipitatis, 8-sporis, 36-48  $\times$  12-16; sporidiis distichis v. inordinatis, ellipsoideis, regularibus, 3-septatis, non v. parum constrictis, hyalinis, 10-16  $\times$  5-6.  
*Hab.* in ramulis emortuis Nerii Oleandri, Ville-sur-Terre, Aube Galliæ, socia *Fumagine vagante* (P. HARIOT).
10. **Micropeltis viridatra** Winter in Hedwigia 1886, pag. 99. — Pe- 4244  
ritheciis epiphyllis, sparsis, scutiformibus, perparum convexis, spurie ostiolatis, sordide viridi-atris, ex hyphis valde ramosis inter-

textis formatis, ambitu mycelio hyalino, ex hyphis repentibus, ramosissimis contextu anguste cinctis, 300-340  $\mu$ . diam.; ascis oblongis, utrinque attenuatis, breviter stipitatis, 8-sporis, 50-60  $\approx$  17-18; sporidiis inordinatis, elongato-clavatis, curvatis, utrinque rotundatis, 8-septatis, hyalinis, 17-24  $\approx$  4,5; paraphysibus parcis, tenuissimis, filiformibus.

*Hab.* ad folia viva Phaseoli, St. Thomé Afr. occ.

11. **Micropeltis subapplanata** Speg. F. Puigg. n. 367. — Peritheciis 4245  
sparsis, dimidiato-scutatis, minutis, 120-160  $\mu$ . diam., coriacellis; *Micropeltis*  
ascis ovatis, 50  $\approx$  30, 5-8-sporis, aparaphysatis; sporidiis fusoideo-  
cylindræcis, 3-7-septulatis, hyalinis, 20-32  $\approx$  4-5.

*Hab.* ad folia viva Solanaceæ cujusdam pr. Nicaragua Amer. centr. (WRIGHT). — *M. applanatæ* peraffinis, sed sporidiis 5-7-septatis ascisque ovoideis tamen satis recedens.

12. **Micropeltis Hymenophylli** Pat. Bull. Soc. Myc. 1887, pag. 126, 4246  
t. XI, f. 4. — Peritheciis dimidiatis, orbicularibus, conico-conve- *Micropeltis*  
xis, immarginatis, rufis, dein nigris, punctiformibus, 250-300  $\mu$ .  
diam., contextu parenchymatico, radiante, brunneo; ascis sessilibus,  
fusoideis, deorsum ventricosis, 4-6-sporis, 50-60  $\approx$  10; paraphysibus  
filiformibus ramosis; sporidiis fusoideis, elongatis, hyalino-viridulis,  
3-septatis, non constrictis.

*Hab.* in frondibus Hymenophylli cujusdam, Tahiti Oceanicæ.

### Sect. 6. Dictyosporæ.

**SACCARDINULA** Speg. Fungi Guar. Pug. I, p. 257 (Etym. ab auctore Sylloges). — Perithecia simplicia, microthyriacea. Asci pauci, globosi v. ovati, 8-spori, aparaphysati. Sporidia muralia, hyalina.

1. **Saccardinula guaranítica** Speg. Fungi Guar. Pug. I, p. 302. — 4247  
Hypophylla, glomerulatim dense sparsa; peritheciis maculis stromaticis, minutissimis, 200-250  $\mu$ . diam., atris insidentibus, 1-3-aggregatis, hemisphæricis, dimidiato-scutatis, parvulis, 80-100  $\mu$ . d., membranaceo-coriacellis, glabris, ostiolo minutissimo, sæpius per ætatem stellatim lacero donatis, contextu circa ostiolum indistincto, coriaceo-opaco, atro, ambitu parenchymatico-globuloso, seriatim radiante, olivaceo-fuligineo præditis; ascis globosis v. ovoideis, apice crasse tunicatis, pedicello nudo vel vix umboniformi, 15-20  $\approx$  15-19, aparaphysatis, 8-sporis; sporidiis ellipticis vel elliptico-ovatis, rectis v. leniter curvulis, medio 1-septatis, non v. vix

constrictis, loculis horizontaliter et verticaliter 1-septatis, supero nonnihil crassiore brevioraque, utrinque obtusis, 10-11  $\times$  5, hyalinis.

*Hab.* ad folia *Ilicis theezantis* in silva Borja prope Villa Rica Brasiliæ.

2. **Saccardinula coriacea** Speg. F. Puigg. n. 370. — Peritheciis epiphyllis, sparsis v. 3-5-aggregatis, astomis coriacellis, minutis, atris, subiculo destitutis, macula purpurascenti-fusca indeterminata, 1-3 mm. diam., insidentibus; ascis ellipticis v. ovoideis, 45  $\times$  22, apice oblongis crasse tunicatis; sporidiis obovatis, horizontaliter 3-septatis, septo altero verticali divisis, hyalinis, 18-24  $\times$  9-12.

*Hab.* ad folia viva coriacea plantæ cujusdam ignotæ in silvis prope Apiahy Brasiliæ.

### Sect. 7. Scolecosporæ.

**SCOLECOPELTIS** Speg. F. Puigg. n. 369 (Etym. *scolex* vermis et *pelle* scutum). — Perithecia dimidiato-scutata, superficialia, subiculo destituta, atra. Asci 8-spori. Sporidia filiformia, ascorum longitudine, in articulos secedentia, hyalina.

1. **Scolecopeltis tropicalis** Speg. l. c. n. 369. — Peritheciis majusculis, 0,5-1 mm. diam., atris, coriaceis, glabris, subiculo destitutis, ostiolatis, superficialibus; ascis cylindræis vel subfusoides, 130-180  $\times$  16-20, octosporis, aparaphysatis; sporidiis cylindræo-filiformibus, ascum æquantibus, in articulos secedentibus, hyalinis, 5-15  $\times$  4-5.

*Hab.* ad epicarpium nec non folia viva *Citri Aurantii* in hortis prope Apiahy Brasiliæ.

2. **Scolecopeltis ophiospora** (Pat.) Sacc., *Micropeltis ophiospora* Pat. Bull. Soc. Myc. 1888, p. 119, t. XX, f. 3. — Peritheciis epiphyllis sparsis, nigris, orbicularibus, dimidiatis, tenuibus, 0,5 mm. diam., centro depressis, areola alba, tenui cinctis, ostiolo pertuso, contextu inordinate minuteque parenchymatico, brunneo, in areola radiatim hyalino-celluloso; ascis clavatis, evanescentibus, 8-sporis, 110  $\times$  40, aparaphysatis; sporidiis vermicularibus, medio crassioribus, utrinque attenuatis, circ. 40-septatis, 125  $\times$  8.

*Hab.* in foliis *Brownæ grandifloræ*, Maipures Venezuelæ. — Peritheciis a folio facillime secedens.



**Fam. 7. Coryneliaceæ** SACC.

in Berl. et Vogl. Add. Syll. pag. 193.

*Perithecia* coriacea, atra, lageniformia, ostiolo elongato, apice perforato, dein late infundibuliformiter expanso.

**Clavis analytica Generum.**

*Corynelia*. Sporida sphaerica, continua, fusca (*Phæosporæ*).

*Tripospora*. Sporidia stellata, 4-5-locularia, loculis radiantibus, atra (*Dictyosporæ*).

**CORYNELIA** Achar. in Fries Obs. myc. II, p. 343 et S. M. II, p. 535, Winter Ueb. Gatt. Coryn. p. 123 (Etym. a *coryne* clava). — *Perithecia* lageniformia, coriacea, atra in collum, apice infundibuliformiter expansum, desinentia, in acervulos rotundatos, plerumque sparsos disposita, stromate pulvinate, erumpente insidentia; asci ovati, longe pedicellati, 8-spori; sporidia globosa, fusco-atra, levia, continua.

1. **Corynelia clavata** (L.) Sacc. in Pirotta Oss. fungh. in N. G. B. I. 4251 1889, p. 313, *Cor. uberata* Fries Obs. myc. II, pag. 343 et Syst. myc. II, p. 535, Winter Ueb. Gatt. Coryn. p. 123, fig. 4-8, *Mucor clavatus* Lin. Spec. plant. Suppl. p. 453, *Sphaeria turbinata* Pers. Syn. p. 95. — *Peritheciis* lageniformibus, coriaceis, atris, collo elongato, cylindrico, poro pertuso demum apice dilatato præditis, acervulos rotundatos, plerumque sparsos, rarius subgregarios, 1-3 mm. latos formantibus, basi stromate pulvinate, erumpente insidentibus; ascis ovatis, longissime pedicellatis, 8-sporis, 36-44  $\approx$  20-26, (parte spor.); sporidiis conglobatis, globosis perparum angulatis, fusco-atris, levibus, continuis, 10-11  $\mu$ . diam.; spermatiis oblongo-fusi-formibus, continuis, hyalinis, 6-7  $\approx$  2.

*Hab.* ad folia ramulos fructusque *Podocarpi Thunbergii*, *P. elongatæ*, *P. Totaræ*, ad Caput Bonæ Spei (THUNBERG, SWARTZ, MAC-OWAN), Caffraria (MANSEL-WEALE), Scioa (RAGAZZI), Kashia Ind. or. (HOOKER), Little River Novæ Zelandiæ (sec. COOKE), Venezuela (sec. STREINZ). — Quoad mycelii indolem cfr. Pirotta l. c.

**TRIPOSPORA** Sacc. in Berl. et Vogl. Add. Syll. pag. 194 (Etym. a *tripous* tripes et *spora*). — *Perithecia* lageniformia, coriacea, atra, in collum apice infundibuliformiter expansum desinentia, plerumque

in series disposita. Asci ampli, longe pedicellati, octospori. Sporidia stellata, 4-5-locularia, oculis radiantibus, atra.

1. **Tripospora Cookei** Sacc. Add. Syll. p. 194, *Corynelia tripos* Cooke <sup>4252</sup>  
in Grevillea VIII, pag. 34, Winter Ueber die Gatt. Corynelia  
pag. 122, fig. 1-3. — Peritheciis lageniformibus, coriaceis, atris,  
nitidis, in collum elongatum, cylindricum, poro pertusum, demum  
apice dilatatum desinentibus, rarius in acervulos rotundatos, ple-  
rumque imo series elongatas, usque 20 mm. longas, lineares, for-  
mantibus; ascis amplis, ovatis, sursum obtusis longe pedicellatis,  
50-70 = 26-35 (p. sp.) octosporis; sporidiis 4- rarissime 5-radiatis,  
ex processibus conicis, basi coalitis constantibus, 21-23  $\mu$ . diam.,  
fuscis; spermatiis, 4,5 = 1,5-2.

*Hab.* ad folia viva Podocarpi elongatæ et P. Thunbergii in Capite Bonæ Spei (Herb. KEW.)

### Fam. 8. **Lophiostomaceæ** SACC. \*).

#### Sect. 1. Phæodidymæ.

**SCHIZOSTOMA** Ces. et De Not. — Sacc. Syll. II, p. 673.

1. **Schizostoma microsporum** Pass. in Martelli Flor. bog. pag. 146, <sup>4253</sup>  
Berl. Ic. t. I, f. 1. — Peritheciis subgregariis, superficialibus, sub-  
globosis, ostiolo lineari, compresso; ascis elongato-clavatis, basi  
longe attenuatis, 75 = 10, paraphysibus tenuissimis, numerosis sub-  
æquantibus obvallatis, octosporis, sporidiis ellipsoideo-subfusiformi-  
bus, oblique monostichis, medio septatis, non vel vix constrictis,  
fuscis, 15 = 5.

*Hab.* in cortice arborum, Keren Africæ (BECCARI).

2. **Schizostoma ammophilum** Bomm. Rouss. Sacc. sp. n. — Perithe- <sup>4254</sup>  
ciis subepidermicis, prominulis, sparsis, nigris, glabris, subglobo-  
sis, 240  $\mu$ . diam., zona atra nulla cinctis, ostiolo arcuato, compres-  
so, erumpente; ascis tereti-clavatis, 50-145 = 13-21, noduloso-sti-  
pitatis; paraphysibus coalescentibus, sæpe ramosis, subarticulatis,  
4,5  $\mu$ . cr.; sporidiis 1-2-stichis, ovoideis, 1-septatis, constrictis,  
brunneis, 15-23 = 6,5-11, subinde guttulatis, rectis.

*Hab.* in culmis et foliis *Ammophilæ arenariæ*, Knocke Belgii.

\*) Cfr. BERLESE Ic. fung. ad usum Syll. Saccard. adcomm. I, p. 1-19, t. I-XI,  
ubi species plures reformantur. Nonnullæ species ab eodem auctore ut meræ  
formæ aliarum specierum recte habitæ, hic, secundum præsentis operis in-  
dolem et morem, potiusque commoditatis causa, seorsim servantur.

## Sect. 2. Hyalodidymæ.

**LOPHIOSPHÆRA** Trev. — Sacc. Syll. II, p. 675.

1. **Lophiosphæra intricata** (Nits.) Berl. et Vogl. Add. Syll. pag. 424, 4255  
*Lophiostoma intricatum* Nits. in Lehmann Syst. Bearb. Pyren. Loph. pag. 84, fig. 54. — Ascis subcylindræcis, 80-90  $\approx$  11-13; sporidiis bicellularibus, loculis plerumque piriformibus, 19-26  $\approx$  6-7, anisomeris.

*Hab.* in cortice ramorum Salicis prope Münster (NITSCHKE). — Affinis, ut videtur, *L. schizostomati*.

2. **Lophiosphæra Beckhausii** (Nits.) Berl. et Vogl. Add. Syll. p. 424, 4256  
 Ic. fung. I, pag. 3, t. III, f. 3, *Lophiostoma Beckhausii* Nits. in Lehmann Syst. Bearb. Pyr. Loph. p. 64, fig. 42. — Peritheciis sparsis  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ascis 100-130  $\approx$  16-18; sporidiis acute fusiformibus, uniseptatis, hyalinis, 35  $\approx$  8 guttulatis, subinde pseudo 3-5-septatis.

*Hab.* in ligno fagineo, Münster (NITSCHKE).

3. **Lophiosphæra lignicola** Sacc. in Add. Syll. p. 258, Berl. Ic. fung. I, 4257  
 p. 3, t. III, f. 1, *Lophiostoma meridionale* Ellis in Journ. Myc. 1888, p. 64. — Peritheciis sparsis, minutis, 250-300  $\mu$ . diam., compressis, ligno immersis; ostiolo applanato, nigro, prominulo; ascis clavato-cylindræcis, 75  $\approx$  8-9, copiose paraphysatis; sporidiis distichis, fusoideis, subcurvis, 1-septatis, leniter constrictis, 30-35  $\approx$  5, hyalinis.

*Hab.* in lignis putridis in Italia et St. Martinsville Louisiana Amer. bor. (LANGLOIS). — In forma ital. ascii 90-100  $\approx$  12; sporida 30-35  $\approx$  6-7.

4. **Lophiosphæra heterostoma** (Ell. et Ev.) Berl. et Vogl. Add. Syll. 4258  
 p. 425, Ic. fung. I, p. 4, t. III, f. 2, *Lophiostoma heterostomum* Ell. et Ev. in Journ. of Myc. 1886, p. 99. — Peritheciis erumpentibus, sparsis vel subgregariis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., depressis, sphæroideis, basi ligno insculptis, superne emergentibus; ostiolo lato, compresso, peritheci latitudinem fere æquante, demum deciduo et perithecium poro rotundo pertusum relinquente; ascis clavato-cylindræcis, sursum rotundatis, basi in pedicellum gracilem attenuatis, 70-80  $\approx$  6-7, copiose paraphysatis, octosporis; sporidiis fusoideis, uniseptatis, hyalinis, vix curvulis, appendiculis 8-10  $\mu$ . longis ornatis, 18-20  $\approx$  4,5-5, primo 3-4-nucleatis, demum muticis et

tum medio constrictis, utrinque rotundatis, fusoideo-oblongis, sæpeque luteo-brunneis.

*Hab.* in discis dolii vinarii quercini, Louisiana in Amer. boreali (LANGLOIS). — Matrix fungillo invasa rubescit. — Differt ab affini *L. pulveracea* peritheciis latioribus ostioloque deciduo.

5. **Lophiosphæra forojuiliensis** Berl. Ic. fung. I, p. 2, t. II, f. 5, *L.* 4259  
*intricata* Berl. Exc. Frioul p. 18, nec Lehm. — Peritheciis sparsis vel subgregariis,  $\frac{1}{4}$  mm. diam., plus minusve immersis, rugosis, atris, ostiolo lineari exerto; ascis cylindraceutis, breve stipitatis, 90-100  $\approx$  10-12, 8-sporis, filiformi-paraphysatis; sporidiis oblique monostichis, oblongis, utrinque late rotundatis, medio constricto-septatis, 2-4-guttulatis, 20  $\approx$  7-8, hyalinis vel dilutissime brunneolis, muticis.

*Hab.* in ligno et cortice ramulorum Salicis cinereæ, Osoppo, Friuli Ital. bor.

6. **Lophiosphæra Fuckelii** Sacc. Syll. II, p. 678. — Huc, teste Berlese, spectat *L. rubicolum* Nits., Add. Syll. p. 426.

### Sect. 3. Hyalophragmiæ.

#### LOPHIOTREMA Sacc. Syll. II, p. 679.

1. **Lophiotrema recedens** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 4260  
Ill. fung. Slav. n. 596. — Peritheciis gregariis, ligno penitus vel semi infossis globoso-depressis vel subangulosis, carbonaceis, intus pallidis, 0,4-0,5 mm. diam., ostiolo emergente, compressiusculo, plus minusve lato, rimoso; ascis cylindraceutis, paraphysatis, octosporis; sporidiis oblique tristichis, 7-septatis, 8-guttulatis, hyalinis.

*Hab.* in ramis decorticatis salicinis prope Vinkovce Slavoniæ. — A *Loph. aucto* et *L. appendiculato* certe diversum.

2. **Lophiotrema myriocarpum** (Fuck.) Sacc. Syll. II, p. 679, Winter in Hedw. 1886, p. 103. — Perithecia in ostiolum subangustatum, truncatum vel parum emarginatum ad latera subtumidum attenuata; asci 80-100  $\approx$  7-9; sporidia fusiformia, 3-septata, ad septa vix constricta, 24-30  $\approx$  3-4; paraphyses numerosæ, filiformes. — Sec. cl. Wint. sporidia sunt primum hyalina demum fusca et tum 5-septata, an ergo *Lophiostoma*?

3. **Lophiotrema Fontanesiæ** Pass. Diagn. Fung. nuovi, I, n. 70. — 4261  
Peritheciis sparsis v. gregariis, ligno immersis, ostiolo lato, compresso, integro, emergente, atris; ascis elongato-clavatis, paraphysibus tenuibus stipitatis, 8-sporis, 80-125  $\approx$  8-10; sporidiis oblique

uniseriatis v. subseriatis fusiformibus, rectis v. curvis, utrinque acuminatis, 4-6-nucleatis, medio-septatis et vix constrictis, dein 3-5-septatis, perfectis hyalinis, 25-35  $\approx$  5.

*Hab.* in ramis putridis Fontanesiæ phillyreoidis in Horto Botanico parmensi Ital. bor. — A *L. crenato* differt ostiolo integro sporidiis hyalinis etc. Sec. Berl. Ic. pag. 6 non satis differt a *L. præmorso*.

4. **Lophiotrema Mollerianum** (Winter) Berl. et Vogl. Add. Syll. p. 256, 4262

*Lophiostoma Mollerianum* Winter Contr. Fl. Myc. Lus. V, p. 17. — Peritheciis in macula exarida, grisea, anguste fusco-cincta irregulari, hypophylla, sparsis, immersis, subglobosis, ostiolo compresso, integro, prominulo instructis, membranaceis, fusco-atris, 200-260  $\mu$ . diam.; ascis cylindratis, deorsum attenuatis, 78-88  $\approx$  9, octosporis, paraphysibus filiformibus, æquilongis obvallatis; sporidiis distichis, fusoideo-biconicis, uniseptatis, ad septum profunde constrictis, hyalinis, 4-guttulatis, utrinque appendiculis brevissimis, rotundatis, 1  $\mu$ . longis præditis, 14-16  $\approx$  5.

*Hab.* ad folia viva *Quercus cocciferæ* prope Coimbra in Lusitania (MOLLER). — Macula aliena videtur. Ostiolum sub microscopio brevissime fimbriatum.

5. **Lophiotrema emergens** Karst. in Hedw. 1883, n. 3, p. 42, Rev. 4263

atque Synop. Ascom. fenn. p. 85. — Peritheciis gregariis, emergentibus, sphaeroideis, vel ovoideis, atris, 5 mm. circ. latis; sporidiis distichis, fusoideo-elongatis, utrinque acutatis, curvulis v. subrectis, 2-5- plerumque 4-guttulatis vel spurie tenuiter 3-septatis, ad medium non constrictis, chlorinis, 26-33  $\approx$  5-7; paraphysibus gracilibus.

*Hab.* in cortice *Populi* putrescente, Helsingfors Fennicæ (W. NYLANDER). — Quoad partes internas cum *L. crenato* et *L. vagabundo* nonnihil convenit.

6. **Lophiotrema hysteroideis** (Ell. et Langl.) Berl. Ic. fung. I, p. 4, 4264

t. III, f. 4, *Lophiostoma hysteroideis* Ell. et Langlois Journ. Myc. 1888, p. 64. — Peritheciis gregariis, subglobosis, basi ligno subimmersis, sæpius 300  $\mu$ . diam., ostiolo anguste cristato omnino percursis; ascis cylindratis, 60-70  $\approx$  5-6, copiose paraphysatis; sporidiis distichis, fusoideis, subrectis, 3-septatis, fumoso-hyalinis, loculo superiore subultimo incrassato, 14-16  $\approx$  3-4.

*Hab.* in truncis putridis *Quercus*, St. Martinsville, Louisiana Amer. bor. (LANGLOIS). — Sec. Berlese vix species *Lophiostomacea*.

7. **Lophiotrema radicans** (Ell. et Ev.) Sacc., *Lophiostoma radicans* 4265

Ell. et Ev. Journ. Myc. 1887, p. 44. — Peritheciis sparsis,  $\frac{1}{6}$  mm. diam., ligno immersis, ostiolo angusto, compresso, erumpente; ascis subcylindræis, 90-116  $\approx$  10-12, p. sp. 75-80  $\mu$ . long.; paraphysibus copiosis, filiformibus superatis; sporidiis distichis, fusoides, 3-septatis, hyalinis, subcurvis, ad septum medium plerumque 15-20  $\approx$  4-5.

*Hab.* in ramulis decorticatis et putridis Rhois radicans, Newfield, New Jersey Amer. bor. — Cl. Berlese Ic. I, t. III, f. 5, habet ut var. *Loph. vagabundi*.

8. **Lophiotrema Curreyi** Sacc., *Lophiotrema hysterooides* Currey in 4266  
Grev. XVIII, pag. 74, nec Ell. et Langl. — Peritheciis gregariis, semiimmersis, atris, subglobosis, lateraliter compressis, ostiolo lineari; ascis clavatis, 8-sporis; sporidiis fusiformibus, primum 1-septatis, nucleatis, demum 3-5-septatis, hyalinis, vix constrictis, 30  $\approx$  5.

*Hab.* in ligno putri, Chiselhurst Britannia.

9. **Lophiotrema vestitum** Peck 40 Rep. p. 71. — Peritheciis conferte 4267  
gregariis, parvis, 350-500  $\mu$ . diam., ligno immersis, erumpentibus, conicis, tomento tenui, fulvo-ferrugineo, pulverulento vestitis, ostiolo nudo, nigro, subtereti vel compresso; ascis clavatis, 150-175  $\approx$  15-17,5; sporidiis confertis, subfusoides, initio biconis et 1-septatis, dein 3-septatis v. 4-guttatis, medio constrictis, hyalinis, 30-40  $\approx$  7,5-10.

*Hab.* in ligno Populi tremuloidis decorticato, Gansevoort Amer. bor.

10. **Lophiotrema æquivocum** (E. et E.) Berl. Ic. I, p. 8, *Lophiostoma* 4268  
E. et E. Journ. Myc. 1887, p. 118. — Peritheciis gregariis, erumpenti-superficialibus, nigris, sublevibus, depresso-conicis v. subglobosis, circ.  $\frac{1}{3}$  mm. diam., ostiolo nunc compresso, nunc conico et interdum imperfecte radiato-trifido; ascis subcylindræis, circ. 80  $\approx$  5, basi in stipitem brevem angustatis, filiformi-paraphysatis; sporidiis monostichis, oblongo-fusoides, subobtusis, flavido-hyalinis, 3-septatis, ad septum medium (v. etiam ad cetera) constrictis, 12-14  $\approx$  3-3,5.

*Hab.* in ligno emortuo decorticato, British Calumbia Amer. bor. (Prof. JOHN MACOUN).

11. **Lophiotrema Socotræ** Cooke Trans. Roy. Soc. Edin. 1887, p. 391. 4269  
— Laxe gregarium; peritheciis ligno immersis, dein plus minus emergentibus, subsphæroideis, compressis, atris, ostiolis umbilicatis; ascis saccato-clavatis, octosporis; sporidiis lanceolatis, inordinatis, 7-septatis, hyalinis, 35  $\approx$  8.

*Hab.* in ligno, Socotra.

12. **Lophiotrema magellanicum** Speg. F. Fueg. n. 290. — Peritheciis 4270  
dense sparsis, ligno immersis v. semiimmersis, globulosis, 300-350  
 $\mu.$  diam., atris, carbonaceis, ostiolo compresso, acuto, integro; ascis  
cylindraceutis v. subclavatis, antice rotundatis, crassiusculeque tuni-  
catis, late minuteque foveolatis, postice attenuato-pedicellatis, 110-  
120  $\approx$  10-12, dense paraphysatis, 8-sporis; sporidiis oblique v. re-  
cte distichis, subfusoides, utrinque obtusiusculis, 25-28  $\approx$  6,5-7, cur-  
vulis, 5-7-septato-constrictis, loculis grosse 1-guttulatis, hyalinis,  
strato mucoso utrinque in caudam conicam, 5-7  $\mu.$  long., producto,  
donatis.

*Hab.* in ramulis emortuis Philesiæ buxifoliæ, Fuchsiæ  
magellanicæ et Chiliotrichi amelloidis non rara in Sta-  
ten island et hinc inde in Fuegia Amer. austr.

13. **Lophiotrema australe** Speg. F. Fueg. n. 289. — Peritheciis ligno 4271  
denudato infuscatoque insidentibus, sparsis vel hinc inde 2-5-gre-  
gariis, semiimmersis, globuloso-compressis, 500-600  $\mu.$  diam., atris,  
glabris, carbonaceis, ostiolo brevi, papillulato, rimoso, acie acuto,  
integro; ascis subclavatis, antice obtusiuscule rotundatis, crassiuscu-  
leque tunicatis, deorsum in pedicellum breviusculum atque crassiu-  
sculum desinentibus, 120-130  $\approx$  20, 8-sporis, dense paraphysatis;  
sporidiis oblique v. recte distichis, fusoides-subclavulatis, utrinque  
acutiuscule rotundatis, 30-40  $\approx$  10, leniter curvulis, 7-8-septatis,  
ad septa constrictulis, loculo quarto supero sæpius nonnihil cras-  
sio, hyalinis, strato mucoso tenui, utrinque in rostellum subco-  
nicum, 7-8  $\mu.$  long., producto, donatis.

*Hab.* in ramulis emortuis Chiliotrichi amelloidis in sta-  
ten island Fuegiæ.

14. **Lophiotrema antarcticum** Speg. F. Fueg. n. 286. — Peritheciis 4272  
ligno denudato immersis, e globoso-compressis, majusculis, 1 mm.  
long., 500-800  $\mu.$  lat., carbonaceis, atris, ostiolo longiusculo, ex-  
serto, compresso acie acuto, integro; ascis cylindraceuto-subclavatis,  
sursum truncato-rotundatis, crassiusculeque tunicatis, 1-foveolatis,  
deorsum brevissime crasseque attenuato-stipitatis, 150-200  $\approx$  16-20,  
octosporis, parce paraphysatis; sporidiis recte distichis, fusoides,  
utrinque acutissimis, 45-52  $\approx$  7-8, rectis vel subinæquilateralibus,  
9-11-septatis, in juventute torulosis, non constrictis, hyalinis.

*Hab.* in ramis dejectis putrescentibus Chiliotrichi amelloi-  
dis in Staten island Fuegiæ. — Var. **pingue** Speg. F. Fueg. n. 287:  
peritheciis ut in typo; ascis clavatis, sursum rotundatis, deorsum

1080 Pyrenomycetæ, Lophiostomaceæ, Hyalophragmiæ, Lophiotrema,  
plus minus longe attenuatis, 136-150  $\approx$  20, 2-8-sporis, dense para-  
physatis; sporidiis fusoidis, rectis, 9-septatis, 40-60  $\approx$  10-12, non  
constrictis, hyalinis. In ramis *Pernettiæ mucronatæ* emortuis  
in Port Tom, Skiring island Fuegiæ.

15. **Lophiotrema vigheffulense** (Pass.) Berl. Ic. fung. I, p. 4, t. I, f. 5, 4273  
*Lophiosphæra vigheffulensis* Passer. in Erb. Critt. Ital. Ser. II,  
n. 1373. — Peritheciis plus minus crebre sparsis, superficialibus,  
subglobosis, atris, ostiolo compresso v. sæpe papillulato; ascis 70  
 $\approx$  6-8, clavatis, paraphysatis, 8-sporis; sporidiis biserialibus, fusi-  
formibus, medio septatis et constrictis, 4-guttulatis, hyalinis, 23-  
25  $\approx$  3-5, dein 3-septatis.

*Hab.* in cortice exsiccata *Deutziaæ scabræ*, Vigheffio prope  
Parma Ital. bor. (PASSERINI).

16. **Lophiotrema massarioides** Sacc. Syll. II, p. 686. — Huc, teste  
Berlese, spectat *Loph. simile* Nits., Add. Syll. p. 425.

17. **Lophiotrema fuegianum** Speg. F. Fueg. n. 285. — Peritheciis 4274  
primo cortice tectis, dein nudis, late densissimeque superficialibus,  
vix basi insculptis, globulosis, 200-300  $\mu$ . diam., carbonaceis, atris,  
glabris, ostiolo parvulo, conoideo, apice compresso donatis; ascis  
cylindræis, apice obtuse rotundatis, crassiusculeque tunicatis, basi  
breviter attenuato-pedicellatis, 120  $\approx$  8-10, octosporis, parce para-  
physatis; sporidiis oblique monostichis, cylindræo-fusoidis, utrin-  
que attenuato-rotundatis, 26-32  $\approx$  6, rectis v. subcurvulis 7-septa-  
tis, ad septum medium tantum constrictis, hyalinis.

*Hab.* ad ramulos emortuos dejectos *Pernettiæ mucronatæ*  
in Slogget bay Fuegiæ.

18. **Lophiotrema phyllophilum** Bomm. Rouss. Sacc. sp. nov. — Peri- 4275  
theciis sparsis, juxta fibras matricis parallele seriatis, sub epider-  
mide atrata nidulantibus, 250-270  $\mu$ . diam., ostiolo compresso, brevi,  
erumpente; ascis noduloso-stipitatis, clavatis, 60-66  $\approx$  9-10, octo-  
sporibus; paraphysibus copiosis, filiformibus, subinde ramulosis, gut-  
tulatis; sporidiis distichis, fusoidis-obtusis, curvis, chlorino-hyali-  
nis, 3-4-septatis, 4-guttulatis, ad septum medium leviter constri-  
ctis, loculo uno prope septum inflatulo, strato mucoso obductis et  
ex eo simulate mucronatis.

*Hab.* in foliis emortuis *Phœnicis cultæ*, Groenendael Belgii.

19. **Lophiotrema pallidum** (Ell.) Berl. et Vogl. Add. Syll. pag. 255, 4276  
*Lophiostoma pallidum* Ellis in Torr. bot. Club. 1883, p. 52. —  
Peritheciis subhemisphæricis, 250  $\mu$ . diam., sursum collapsis, ostio-  
lo leniter prominulo, non nimis compresso; ascis sessilibus subcy-



Pyrenomycetæ, Lophiostomaceæ, Hyalophragmiæ, Lophiotrema. 1081  
lindræis, 90-100  $\approx$  12-15, paraphysibus filiformibus; sporidiis non  
vel subdistichis, oblongo-cylindræis, subhyalinis, circiter 7-septa-  
tis, utrinque obtusis, leniter curvulis, una extremitate latiori, 18-  
24  $\approx$  5-6 $\frac{1}{2}$ .

*Hab.* in ligno intemperiiis exposito Amelanchieris cana-  
densis, Attah Amer. bor. (HARKNESS).

20. **Lophiotrema rubidum** Sacc. Rouss. et Bomm. in Misc. Myc. p. 18. 4277

— Peritheciis ligno (cortice secedente) superficie leniter cruenta-  
to semiimmersis vel basi infossis, subglobosis, compressi usculis, car-  
bonaceis, nigris,  $\frac{1}{3}$  mm. cr., ostiolo minuto, compresso, subinde  
subpapillato; ascis teretibus, filiformi-paraphysatis, 130  $\approx$  10, octo-  
sporis; sporidiis oblique 1-stichis vel distichis, fusiformibus, re-  
ctis curvulisve, utrinque acutis, 25-30  $\approx$  6, 4-nucleatis, triseptatis  
leniterque constrictis, hyalinis, initio strato exiguo mucoso obductis.

*Hab.* in sarmentis emortuis Rubi in Belgio. — Affine *Loph.*  
*præmorso*, a quo differt sporidiis 4-(nec 6-)nucleatis, matrice  
cruentata etc. Cum *L. vagabundo* jungit Berl. Ic. I, p. 5. — Var.  
**rubidulum**. Cfr. Rehm Ascom. n. 950: ascis cylindræis 120  $\approx$  7-8;  
sporidiis distichis fusoides, obtusulis, initio 1-septatis, dein 5-se-  
ptatis ad septa leniter constrictis, sæpe utrinque breve apiculatis,  
18-24  $\approx$  3-4, hyalinis; paraphysibus ramosis. — In caulibus *Epi-*  
*lobii*, *Urticæ*, *Polygoni*, *Groenendael Belgii* (M. ROUSSEAU).  
An *Loph. Epilobii* Rich. Cat. Champ. Marn. n. 1496 huc spectet,  
deficiente diagnosi, non liquet.

21. **Lophiotrema Scrophulariæ** (Peck) Sacc. Syll. II, pag. 683. — Var. 4278

**cruentulum** Bizz. Fung. Ven. novi v. crit. p. 3. — Peritheciis in  
maculis longissime effusis, dilute roseis, sparsis, v. 2-3-aggregatis,  
immersis, intus albis; ostiolo minuto, compresso, epidermidem per-  
forante; ascis cylindræis, paraphysatis, 140-150  $\approx$  10-12; spori-  
diis monostichis, late fusoides, 3-septatis ad septa constrictis, 4-  
guttatis, 25-26  $\approx$  8, hyalinis.

*Hab.* in caulibus emortuis *Lythri Salicariæ* in provincia  
patavina Ital. bor. — A *Loph. rubido* differt peritheciis minori-  
bus, sporidiis crassioribus, et magis constrictis. Cum *L. vagabun-*  
*do* conjungendum, teste Berl. loc. cit.

22. **Lophiotrema vagabundum** Sacc. Syll. II, p. 484. — Huc spectant,  
teste Berlese, *Lophiost. Ligustri* Nits., *Loph. Notarisii* Nits. et  
*Loph. cultum* Nits., Add. Syll. p. 425, 426 et 428.

23. **Lophiotrema hungaricum** Rehm Hedwigia 1883, p. 58, Berl. Ic. I, 4279  
pag. 5. t. I, f. 8. — Peritheciis, gregariis primitus sub epidermide

caulium nidulantibus eamque elevantibus, denique perforantibus, magnitudine seminis sinapeos, primitus subglobosis, sensim in papillulam protractis, prostremo subtiliter pectinatis, atris, basi hyphis nonnullis irregularibus, brevibus, fuscis instructis; ascis clavatis, 8-sporis,  $105 \approx 18$ ; sporidiis distichis, oblongis, vel oblongo-ellipticis, obtusis, rectis vel interdum paullulum curvatis, primitus 2-cellularibus medio subconstrictis, denique plane evolutis 4-cellularibus, hyalinis, extra ascos repertis fuscidulis,  $33 \approx 9$ ; paraphysibus filiformibus, hyalinis circ.  $2 \mu$ . cr.

*Hab.* ad caules putridos Aconiti Napelli in valle Kohlbach alpium Tatræ (Zips) Hungariæ (LINHART) et in Tirolia merid. (ARNOLD).

24. **Lophiotrema præmorsum** (Lasch) Sacc. Syll. II, pag. 681. — Huc, teste Berlese, spectant: *L. Cookei* (Nits.) B. et V. Add. Syll. p. 425. — Var. **Androsæmi** Brun. in Rev. Myc. 1886, p. 206. Sporidiis fusoides, curvatis, vel subtortuosis, hyalinis, 4-guttulatis,  $38-40 \approx 7-3$ , utrinque appendicula minuta ornatis. In caulibus emortuis *Androsæmi officinalis*, Saintes Galliæ.

25. **Lophiotrema leucosporum** (Nitsch.) Berl. et Vogl. Add. Syll. p. 425, <sup>4280</sup> Ic. fung. I, p. 4, t. I, f. 7, *Lophiostoma leucosporum* Nitsch. in Lehm. Syst. Bearb. *Loph.* pag. 27, fig. 6. — Peritheciis subgregariis, inæqualiter dispositis, sessilibus, media magnitudine, globosis, granulosis, nigris, ostiolis subcylindricis, apice truncatis; ascis anguste cylindræis,  $90-110 \approx 9$ ; sporidiis anguste fusiformibus, appendiculatis, hyalinis,  $20-25 \approx 5-6$ ; appendicula  $4 \mu$ . longa, paraphysibus copiosi filiformibus.

*Hab.* in caule *Sii latifolii*, Münster Germaniæ (NITSCHKE), <sup>4281</sup>

26. **Lophiotrema parasiticum** Peck 40 Rep. p. 71. — Peritheciis confertis, subsuperficialibus,  $350-500 \mu$ . lat., tomento minuto, subcorvino, pulverulento cum ostiolo vestitis, demum nigrescenti-brunneis; ostiolo prominulo, subtereti v. compresso; ascis subclavatis,  $120-150 \approx 15-17,5$ ; sporidiis confertis, primo biconicis, dein 3-septatis, medio constrictis, hyalinis,  $30-40 \approx 7,5$ .

*Hab.* in *Hypoxylon Morsei* vetusto, Elizabethtown Amer. bor.

**LOPHIOTRICHIA** Richon Sphér. nouv. in Bull. Soc. Bot. Franc. 1885, p. XI (Etym. a *lophos* crista et *thrix* seta). — Perithecia simplicia innato-superficialia, carbonacea, nigra, strigoso-pilosa, villo concolori ad basim ut plurimum cincta, ostiolo compresso, cristato, setulis rectis, obsito donata. Asci elongati, paraphysati, octospori.

Sporidia disticha fusoides elongato-bilocularia, ad septum leniter constricta, hyalina, dein distincte 3-septata.

1. **Lophiotricha Viburni** Rich. Sphér. nouv. in Bul. Soc. Bot. Franc. 4282  
1885, p. XII, tab. XII, Berl. Ic. t. XI, f. 7. — Peritheciis gregariis,  $\frac{1}{2}$  irregulariter dispositis, basi ligno immersis, parte semilibera undique pilis strigosis, nigro-fuscis, septatis, rectis obsita, ad basim subiculo fusco superficiali, laxe adhærenti cincta; ostiolo compresso, cristato, luculenter pilis ornato; ascis cylindræo-clavatis, breve stipitatis, 130-150  $\approx$  14-18, octosporis; paraphysibus filiformibus, continuis; sporidiis, distichis fusiformibus, biconoideo-elongatis, uniseptatis, ad septum leniter constrictis, pluriguttulatis, hyalinis, 40-44  $\approx$  6-7, dein 3-septatis.

*Hab.* ad ramos emortuos musco obductos Viburni Lantanæ, Soulanges prope Saint-Amand-sur-Fion Galliæ.

#### Sect. 4. Phæophragmiæ.

**LOPHIOSTOMA** (Fr.) Ces. et De Not. — Sacc. Syll. II, pag. 689.

1. **Lophiostoma stenostomum** Ell. et Ev. in Tor. Bot. Club. 1883, 4283  
pag. 89. — Peritheciis sparsis, globosis, 250  $\mu$ . diam., fibris corticis tectis et eum ostiolo leniter compresso perforantibus; ascis clavato-cylindræis, 75-90  $\approx$  6-7; paraphysibus filiformibus, copiosis; sporidiis distichis, fusiformibus, leniter curvis, luteolis, primo nucleatis, et uniseptatis demum 3-septatis, ad septa non vel vix constrictis, 18-22  $\approx$  3-3,5.

*Hab.* in cortice interiore truncorum Vitis viniferæ, Newfield Amer bor.

2. **Lophiostoma Barbeyanum** Sacc. et Roum. in Rev. Myc. 1883, t. 41, 4284  
fig. 15. — Peritheciis e basi insculpta superficie libus, matrice non atrata, globoso-conicis, nitide atris, carbonaceis,  $\frac{3}{4}$  mm. diam., ostiolo compressiusculo, angusto, subinde teretiusculo, dein pertuso; ascis tereti-fusoides, breve stipitatis, paraphysatis, octosporis, 140  $\approx$  14; sporidiis distichis breve fusoides, 3-septatis, ad septa constrictis, 30  $\approx$  9, fusco-melleis.

*Hab.* in ramis decorticatis Sambuci nigræ in Arduennis. — Ob ostiolum quandoque subrotundum ad *Melanomma* vergit. — Sec. Berl. Ic. I, pag. 11 est var. *L. caulium*, cui tamen sporidia sunt evidentius 5-septata.

3. **Lophiostoma parvulum** Berl. Ic. fung. I, p. 8, t. V, f. 3, *L. Nu-* 4285

*cula* Lehm. Loph. p. 128, fig. 55, nec Auct. — Peritheciis subsuperficialibus, 0,3 mm. diam., globulosis, ostiolo crassiusculo, compresso, brevi; ascis cylindraceutis, 60-70  $\approx$  6-7, breve stipitatis; sporidiis tereti-oblongis, 11-14  $\approx$  4, 3-septatis, ad septa, præcipue medium constrictis, subinde 4-guttulatis, dilute fuligineis.

*Hab.* in ligno quercino prope Sugenheim in Franconia.

4. **Lophiostoma vexans** Nits. in Lehm. Syst. Bearb. Pyr. Loph. p. 89, 4286 fig. 60. — Peritheciis subgregariis, subsuperficialibus, globulosis, subinde compresso-cylindraceutis, nigris, ostiolo minuto, papillato, poro orbiculari pertuso; ascis cylindraceutis vel subcylindraceutis, raro subclavatis, 130-160  $\approx$  16-24; sporidiis fusiformibus vel subcylindraceutis, 4-5-septatis, fuscescentibus, 35-45  $\approx$  9-10.

*Hab.* in Salice prope Münster Germaniæ (NITSCHKE). — E diagnosi potius *Sphæriacea*.

5. **Lophiostoma isomerum** Nits. in Lehm. Syst. Bearb. Pyr. Loph. 4287 p. 86, fig. 57, Berl. Ic. I, p. 9, t. V, f. 6. — Peritheciis sparsis, globoso-conicis, granulosis, atris, 1 mm. diam., subinde ostiolo 1,5 mm. longo; ascis cylindraceutis vel cylindraceuto-clavatis, 100-135  $\approx$  16-18; sporidiis cylindraceutis vel subcylindraceutis, utrinque rotundatis, 3-septatis, obscure fuscis, cellulis extimis pallidioribus, 21-24  $\approx$  9-10; paraphysibus prælongis, filiformibus.

*Hab.* in cortice Salicis prope Münster Germaniæ (NITSCHKE).

6. **Lophiostoma papillatum** Pass. in Martelli Flor. Bog. pag. 146. — 4288 Peritheciis sparsis vel subgregariis globosis, basi matrici insculptis, ostiolo papillato, compresso, rima lineari dehiscente; ascis..... non visis; sporidiis oblongo-clavatis, apice rotundatis vel subacutis, basi longe attenuatis et apiculo hyalino terminatis, castaneo-fuscis; 9-11-septatis, loculis præsertim superioribus guttulatis, 40  $\approx$  7-5.

*Hab.* in corticibus vetustis, socio *Hysterographio gregario*, Keren in Abyssinia Afr. (BECCARI).

7. **Lophiostoma Bommerianum** Sacc. et Roum. in Rev. Myc. 1883, 4289 tab. 41, fig. 16. — Peritheciis sparsis, e basi insculpta superficialibus, globoso-conicis, carbonaceis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., nigris, ostiolo compressiusculo, angusto subinde inæquali vel teretiusculo, dein pertuso; ascis elongatis (imperfecte visis); sporidiis distichis, fusoides, inæquilateralibus, 70-80  $\approx$  20, e latere compressis, 9-10-septatis, non constrictis, fuligineis.

*Hab.* in cortice crassiore Quercus in Arduennis. — Ob ostiolum subinde inæquale ad *Trematosphæriam* vergit. A *Loph. excipuliformi* sporidiis compressis satis recedere videtur.

8. **Lophiostoma roseo-tinctum** Ell. et Ev. in Journ. of Myc. 1885, 4290

p. 149. — Peritheciis gregariis, hemisphæricis vel subglobosis, subcarbonaceis, nigris rugosisque,  $\frac{1}{3}$  mm. diam., ostiolo vix prominulo compresso, epidermide roseo-tincta, fuscescente primo tectis dein ea secedente liberis; ascis clavato-cylindræis, subsessilibus 100-112 = 13-15, paraphysibus, filiformibus obvallatis; sporidiis cylindræo-fusiformibus, pallide luteis, distichis, 1-septato-constrictis, oculis crasse 4-5-guttatis, utrinque appendicula minuta, subglobosa præditis.

*Hab.* in ramulis emortuis *Staphyleæ trifoliæ* in Amer. bor. — « An *Lophiosphæra?* ».

9. **Lophiostoma Allescheri** Sacc. *Lophiostoma minimum* Allesch. 4291

Suedbay. Pilz. p. 170, t. I, f. 4 (1887), nec E. et E. — Peritheciis sparsis, minutissimis, plus minus immersis, atris, intus albis; ostiolo conoideo; ascis elongato-clavatis, demum cylindræis, stipitatis, ultra 100  $\mu$ . long., 10-12  $\mu$ . cr.; sporidiis primo distichis v. submonostichis, dein oblique monostichis, elongatis, utrinque subangustatis sed obtusis, 3-5-(plerumque 3-)septatis, ad septa demum valde constrictis, loculo quodam hinc inde longitudinaliter divisus, flavis, demum brunneolo-flavis, circ. 14-18 = 4-5.

*Hab.* in rimis trunci *Tiliæ* pr. München Baviariæ.

10. **Lophiostoma minimum** E. et E. Journ. Myc. 1888, p. 63. — Pe- 4292

ritheciis sparsis, minutis, 200-250  $\mu$ . diam., ovoideo-globosis, ligno partim immersis; ostiolo subcompresso, mox deciduo; ascis clavato-cylindræis, 75 = 8-9, copiose paraphysatis; sporidiis monostichis, oblongo-ellipsoideis, primo subhyalinis et guttulatis, dein olivaceis et 3-septatis, utrinque rotundatis, obtusis, 10-12 = 4-5.

*Hab.* in ligno dejecto, St. Martinsville Louisiana Amer. bor. (Rev. A. B. LANGLOIS).

11. **Lophiostoma subcollapsum** Ell. et Ev. in Journ. of Myc. p. 100. 4293

— Peritheciis cartilagineo-membranaceis, atris, globosis  $\frac{3}{4}$ -1 mm. diam., cortice immersis, epidermide vix elevata, nigrescente, ostiolo papilliformi perforata tectis, demum collapsis; ascis clavato-cylindræis, circiter 150 = 12, copiose paraphysatis; sporidiis oblique monostichis vel sursum subdistichis, oblongo-ellipsoideis, 20-26 = 8-10 vel irregulariter ellipsoideis, 20-22 = 12-15, primo hyalinis demum brunneis, 3-7-septatis, ad septa non constrictis.

*Hab.* in cortice ramorum *Nyssæ multifloræ*, Newfield Americæ borealis. — Ostiolum fere inconspicuum et vix prominulum. Sporidia subinde oculis uno vel duobus septo longitudinali divisa.

12. **Lophiostoma macrostomoides** De Not. — Sacc. Syll. II, p. 694. — 4204  
 Var. **eguttulatum** Karst. in Hedw. 1884, n. 3, p. 42. — Sporidiis distichis, elongatis, leviter curvulis vel subrectis, utrinque vix v. leviter, attenuatis, ad septa vix constrictis, eguttulatis, dilute fuscidulis, 27-35  $\approx$  7-9.  
*Hab.* in cortice crassiore Salicis ad Mustiala Fenniæ.
13. **Lophiostoma Spartii** Nits. in Lehm. Syst. Bearb. Pyren. Loph. 4205  
 pag. 36, fig. 21. — Peritheciis sparsis, subsuperficialibus, ellipsoideo-globosis, atris, ostioliis compressis truncatis, granulosis sed nitidulis; ascis anguste vel latiuscule clavatis vel subcylindricis, 60-80  $\approx$  9-10; sporidiis fusiformibus, acutis vel obtusiusculis, 3- raro 5-septatis, fuscis, 21-24  $\approx$  4,5-5.  
*Hab.* in capsulis Sarothamni scoparii in Germania (LASCH).
14. **Lophiostoma Ulicis** Nits. in Lehm. Syst. Bearb. der Pyr. Loph. 4206  
 pag. 21, tab. I, fig. 1. — Peritheciis sparsis, primo subimmersis, dein erumpentibus hemisphæricis, atris, ostiolo tereti-compresso, arcuato, basi sæpe angustiore; ascis clavatis, 80-90  $\approx$  11; sporidiis fusiformibus, appendiculatis, curvatis, 5-7-septatis, fuscescentibus, 30-32  $\approx$  5-6  $\mu$ . longis.  
*Hab.* in ramis Ulicis europæi, Münster (NITSCHKE). — Affine *L. intermedio*.
15. **Lophiostoma Sauteri** Nits. in Lehm. Syst. Bearb. Pyren. Loph. 4207  
 pag. 67, fig. 45. — Peritheciis subgregariis, sæpe parallele ordinatis, innato-erumpentibus, compresso-conicis, ostioliis longiusculis, tuberosis; ascis cylindræis vel anguste elliptico-rotundatis, rarius subclavatis, 78  $\approx$  10; sporidiis fusiformibus, obtusiusculis, 5-septatis, fuscescentibus, 21  $\approx$  6-7.  
*Hab.* in ramis Berberidis pr. Steyr in Stiria (SAUTER).
16. **Lophiostoma caudatum** Fabr. — Syll. II, p. 707, Berl. Ic. t. VIII, fig. 2, — Huc, teste Berlese, spectant *L. clavisporum* Berl. et Vogl. Fung. Ancon. pag. 12, t. I, f. 8 et *Loph. prominens* Nits., Add. Syll. p. 428.
17. **Lophiostoma fallacissimum** Karst. in Hedw. 1884, n. 2, pag. 1. 4208  
 Rev. atque Synop. Ascom. fenn. p. 86, Berl. Ic. I, p. 10, t. V, f. 7. — Peritheciis ut plurimum confertis, cortice insculptis, ovoideo-sphæroideis, ostiolo minuto, nunc conoideo-truncato, nunc compresso, anguste lineari v. lunulato, 0,5-0,7 mm. circ. lat.; ascis cylindræo-clavatis; sporidiis octonis, oblique monostichis, elongatis, 3-septatis, junioribus crasse 4-guttulatis, medio constrictis, e luteo fuscis 25-40  $\approx$  10-12.

*Hab.* in cortice *Tiliæ ulmifoliæ* prope Aboam in Fennia.

18. **Lophiostoma striatum** Sacc. *Miscell. Myc.* I, p. 7. — Peritheciis 4299  
 globulosis, hinc inde gregariis,  $\frac{1}{3}$  mm. diam., cortice immersis, in-  
 tus atro-cinereis, ostiolo erumpente, compresso, obtusiusculo; ascis  
 tereti-clavatis breve stipitatis, 150-160  $\approx$  15-20, copiose filiformi-  
 paraphysatis, octosporis; sporidiis oblique monostichis v. distichis,  
 fusoides, utrinque obtusiusculis, 3-septatis, medio constrictis, 38-  
 40  $\approx$  11, 4-guttulatis, olivaceo-fuligineis, longitudinaliter tenuiter  
 striatis.

*Hab.* in ramis corticatis *Rosæ caninæ*, *Saintes Galliæ* (BRU-  
 NAUD). — Sporidiis non muriculatis sed striolatis ab affini *L. De-*  
*smazierii* dignoscitur.

19. **Lophiostoma nigricans** Berl. *Exc. Frioul.* p. 19, *Ic. t. IX, f. 3,* 4300  
 nec Lehm. — A *Loph. Salicum* in primis differt sporidiis toru-  
 losis, apice acutioribus.

*Hab.* in ramis *Tiliæ*, *Osoppo Ital. bor.* — Perithecia sparsa  
 0,5-0,7 mm. diam.; asci 140-150  $\approx$  16-20; sporidia fusoides, 7-se-  
 ptata, olivaceo-mellea, 38-42  $\approx$  10-12, loculis extimis hyalinis.

20. **Lophiostoma subcorticale** Fuck., *Sacc. Syll. II, pag. 676,* Berl. 4301  
*Ic. I, pag. 14, tab. VIII, fig. 6, L. simile* Nits., *Sacc. Syll. II,*  
 p. 696. — Var. **soriorum** Karst. in *Hedwigia* 1884, pag. 57; spo-  
 ridiis oblongato- v. subellipsoideo-fusoides, rectis, 6-7-septatis, 42-  
 48  $\approx$  11-12.

*Hab.* ad corticem *Quercus* in par. *Kyrkstätt Fenniæ.*

21. **Lophiostoma congregatum** Harkn. *New Calif. Fungi* p. 26, Berl. 4302  
*Ic. I, p. 23, t. VIII, f. 1.* — Peritheciis latis,  $\frac{3}{4}$ -1 mm. diam., se-  
 miimmersis, atris; ostiolo prominulo,  $\frac{1}{4}$ - $\frac{1}{2}$  perithecii latitudinem  
 æquante; ascis octosporis, clavatis, distichis, 70  $\approx$  12; sporidiis fu-  
 siformibus, curvis, 6-8-septato-constrictis, luteo-brunneis, 38-42  $\approx$   
 8-10, loculis minute biguttatis, extimis pallidioribus.

*Hab.* in ramis decorticatis *Sambuci racemosæ*, *Sierra Ne-*  
*vada Californiæ.*

22. **Lophiostoma biforme** Nits. in *Lehm. Syst. Bearb. Pyr. Loph.* 4303  
*pag. 69, fig. 47, Berl. Ic. I, pag. 13, t. VIII, f. 4.* — Peritheciis  
 inordinatis, confertis, subsuperficialibus, conico-depressis,  $\frac{1}{3}$  mm.  
 diam., atris, ostiolis longis, tereti-compressis; ascis clavatis, 160  $\approx$   
 20; sporidiis subcylindræis, 3-septatis, distincte torulosis, dilute  
 fuscis, dein fusiformibus, utrinque obtusiusculis, plerumque 5- raro  
 3-septatis, pallide fuscis, cellulis apicalibus, subhyalinis, 30-46  $\approx$   
 9-11.

*Hab.* in ligno quercino putri in Germania et Italia boreali (NITSCHKE, PASSERINI).

23. **Lophiostoma Corni** Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 4304  
1885, n. 4, p. 54. — Peritheciis sparsis gregariisque, cortice nidulantibus, globosis, atris; ostiolo emergente, prominulo, compresso, subplano; ascis subclavatis, 90-95  $\approx$  10-11, 8-sporis; paraphysibus non visis; sporidiis distichis, oblongo-fusoideis, 30  $\approx$  8-10, rectis, utrinque acutiusculis, 3-septatis, interdum guttulatis, olivaceis, loculis binis interioribus plerumque saturatius coloratis.

*Hab.* ad ramos Corni sanguineæ prope Saintes (Charente Inferieure) Galliæ (BRUNAUD). — *L. dumeti* affine dicitur.

24. **Lophiostoma corylinum** Pass. in Brun. Champ. Saint. V, p. 4. — 4305  
Peritheciis superficialibus, sparsis v. subapproximatis, ostiolo prominulo, subcompresso; ascis oblongo-clavatis, 8-sporis, 50-75  $\approx$  8-9; paraphysibus fusoideis cinctis; sporidiis distichis, fusoideis, utrinque muticis, rectis vel subcurvis, 5-septatis, brunneis, 18-20  $\approx$  3,5-4.

*Hab.* in pericarpio lignoso fructuum Coryli Avellanæ, Saintes Galliæ.

25. **Lophiostoma Langloisii** Ell. et Ev. Journ. Myc. 1887, p. 44. — 4306  
Peritheciis gregariis, subconicis,  $\frac{3}{4}$  mm. diam., cortice semiimmersis, parte emersa fusco-nigra, rugosula, ostiolo angusto, plus minus compresso, prominente; ascis subcylindratis, 110-120  $\approx$  12-15, copiose paraphysatis; sporidiis sæpius distichis, fusoideis, 3-septatis, ad septa constrictis, brunneis, subcurvis, loculis crasse 1-guttatis, 34-40  $\approx$  7-8.

*Hab.* in cortice putri Salicis nigræ, ad terram udam dejecto, Pointe a' la Hache, Louisiana Amer. bor. (LANGLOIS). — Potius *Melanomma* ex ipso auct.

26. **Lophiostoma endophlœum** Passer. Diagn. Fungi nuovi, I, n. 71, 4307  
Berl. Ic. I, p. 14, t. IX, f. 1. — Peritheciis endophlœis, insculptis, subglobosis, atris, ostiolo lato, compresso, subdolabriformi emergente; ascis cylindrico-clavatis, basi attenuatis, 75-100  $\approx$  10; paraphysibus tenuibus obvallatis, 8-sporis; sporidiis distichis v. monostichis, fusiformibus, 5-7-septatis, non constrictis, interdum loculis mediis, uno alterove septo longitudinali divisis, 20-25  $\approx$  5-8.

*Hab.* in cortice interiore Persicæ vulgaris, Vigheffio pr. Parmam Ital. bor. — *L. pseudomacrostomo* Sacc. affine, sed situ et sporidiis distinguendum. An ob septula nonnulla longitudinalia ad genus *Lophidium* ducendum?



27. **Lophiostoma chryso sporum** Karst. Rev. Myc. 1888. — Peritheciis sparsis, ligno superficie nigrificato immersis, subinde demum prominulis, sphæroideis, ostiolo prominulo, compresso, brevi lineari aut longiore conoideo, mediocribus; ascis 12  $\mu$ . cr.; sporidiis subdistichis, elongatis, curvulis, 5-7-septatis, ad septa leviter constrictis, aureis, unicoloribus, 25-30  $\approx$  6-8; paraphysibus filiformibus, numerosis.
- Hab.* ad ramos siccos Sambuci racemosæ in horto Mustialensi Fenniæ. — Sec. cl. Berlese non satis differt a *Loph. Niessleano*.
28. **Lophiostoma Pruni** Ell. et Ev. Journ. Myc. 1888, p. 64, Berl. Ic. 4309 I, p. 9, t. VI, f. 3. — Gregarium; peritheciis ligno immersis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., ostiolo erumpente, valde compresso; ascis clavato-cylindræis, 80-90  $\approx$  8-9, copiose paraphysatis; sporidiis monostichis, sæpius quaternis, oblongis, utrinque rotundatis, brunneis, 3-septatis, ad septa constrictis, deorsum angustioribus, 18-22  $\approx$  6-8.
- Hab.* in ramis Pruni serotinæ, Lyndonville, New York Amer. bor. (Doct. C. E. FAIRMAN). — *L. quadrinucleato* affine.
29. **Lophiostoma erosum** Ell. et Ev. Journ. Myc. 1887, p. 44, Berl. 4310 Ic. I, p. 11, t. VI, fig. 9. — Peritheciis ligno immersis, globosis,  $\frac{1}{3}$ - $\frac{1}{4}$  mm. diam., ostiolis erumpentibus, angustis, subprominulis; ascis clavato-cylindræis, 90-100  $\approx$  12-15, copiose filiformi-paraphysatis; sporidiis supra subdistichis, oblongo-fusoideis vel subnavicularibus, circ. 5-septatis, initio hyalinis, dein flavidis, demum subopacis, sæpius 20-25  $\approx$  6-8, corrugatis.
- Hab.* in ligno putrido Salicis, Vineland, New Jersey Amer. bor. — *L. scelesto* et *L. macrostomoidi* affine. Sporidia ex ic. Berl. non corrugata.
30. **Lophiostoma Salicum** (Fabr.) Sacc. Syll. II, p. 702. — Huc teste Berlese, spectat *L. nigricans* Nits., Add. Syll. p. 429.
31. **Lophiostoma Balsamianum** (Ces. et De Not.) Sacc. et Berl. Spec. Loph. p. 49, t. II, f. 7-10, *L. Ulmi* (Fabr.) Sacc. Syll. II, p. 701, *L. pileatum* (Tode) Sacc. Syll. II, p. 703, *L. Nitschkei* Lehm., Add. Syll. p. 429. — Hæc est species reformata sporidiis minoribus (35-40  $\approx$  8-12), dum *L. Balsamianum* De Not., Sacc. Syll. II, p. 701, sporidiis majoribus (55-65  $\approx$  16-20) genuinum *L. excipuliforme* (Fr.) spectat. Cfr. Berl. Ic. I, p. 15, t. IX, f. 6 et 7.
32. **Lophiostoma excipuliforme** Fr. — Syll. II, p. 700. — Var. **Abietis** Ell. et Ev. Journ. Myc. 1888, p. 64. — A typo differt ostiolo subangustiore sporidiisque majoribus seu 60-75  $\approx$  12-16.

*Hab.* in Abiete, Cazenovia, New York Amer. bor. (L. M. UNDERWOOD et O. F. COOK).

33. **Lophiostoma quadrinucleatum** Karst. — Syll. II, p. 689. — Huc spectat teste Berlese, *L. Berberidis* Nits., Add. Syll. p. 427.
34. **Lophiostoma caulium** (Fr.) Ces. et De Not. — Syll. II, p. 697. — Huc, teste Berlese, spectant *Loph. Galii* Nits., *L. commutatum* Nits., *L. parvulum* Nits., *L. Dipsaci* Nits., Add. Syll. Cfr. p. 428-429.
35. **Lophiostoma Niessleanum** Sacc. Syll. II, pag. 705. — Huc, teste Berlese, spectat *L. Diaporthe* Nits., Add. Syll. p. 429.
36. **Lophiostoma simillimum** Karst. — Syll. II, p. 707. — Huc, teste Berlese, spectat *L. Galeopsidis* Nits., Add. Syll. p. 427.
37. **Lophiostoma insidiosum** (Desm.) Ces. et De Not. — Syll. II, p. 703. — Huc spectat, teste Berlese, *L. Lappæ* Nits. Add. Syll. pag. 430.
38. **Lophiostoma demissum** Nits. in Lehm. Syst. Bearb. Pyr. Loph. 4312 p. 35, f. 20. — Peritheciis sparsis, inæqualiter dispositis, innato-erumpentibus, minutis, repando-hemisphæricis, ostiolis compresso-cylindricis, minutissimis; ascis anguste clavatis v. subcylindræis, 70  $\approx$  9-11; sporidiis fusiformibus v. subcylindræis, 3-septatis, fuscis, 13-18  $\approx$  4,5-6.  
*Hab.* in caule Plantaginis majoris prope Münster (NITSCHKE).
39. **Lophiostoma Typhæ** Nits. in Lehm. Syst. Bearb. Pyr. Loph. 4313 p. 26, fig. 5. — Peritheciis subgregariis, subinde seriatis, innato-erumpentibus, globoso-ellipsoideis, atris, ostiolis levibus, truncatis; ascis oblongo-clavatis, 90-110  $\approx$  10-11, p. sp. 70-90  $\mu$ . long.; sporidiis anguste fusiformibus, obtusiusculis, raro appendiculatis, fuscis, 20-27  $\approx$  5-7.  
*Hab.* in calamis Typhæ, Münster in Germaniæ (NITSCHKE). — «Affine *L. vaganti*».
40. **Lophiostoma Arundinis** (Fr.) C. et De Not. — Syll. II, p. 699. — Huc spectat, teste Berlese, *L. palustre* Nits., Add. Syll. p. 428.
41. **Lophiostoma dacryosporum** Fabr. — Syll. II, pag. 708. — Huc spectat, teste Berlese, *L. Phragmitis* Nits., Add. Syll. p. 428.
42. **Lophiostoma fuegianum** Speg. F. Fueg. n. 291. — Peritheciis 4314 matrice nigrificata semiimmersis, sparsis, globulosis, 180-200  $\mu$ . diam., ostiolo papillulato, hysteroideo, crenulato coronatis, atris, glabris, carbonaceis; ascis clavatis, antice obtusatis, postice attenuato-pedicellatis, p. sp. 55-60  $\approx$  12-15, crassiuscule tunicatis, diffluentibus, densiuscule paraphysatis; sporidiis di-tri-stichis, fusoi-

deo-clavulatis, 20-25  $\simeq$  4-5, rectis vel vix inæquilateralibus, 5-septatis, ad septa non v. vix constrictis (ad medium validius), loculo quarto supero sæpius nonnihil crassiore, supremo obtuso, infimo acuto, conico longiusculo, fuligineis, in segmento supero obscurioribus.

*Hab.* ad culmos emortuos putrescentes in sabulosis pr. Punta Anegada Fuegiæ.

43. **Lophiostoma floridanum** E. et E. in Journ. of Myc. 1886, p. 40. 4315

— Peritheciis gregariis vel sparsis, hemisphæricis, atris, rugosis, circiter  $\frac{1}{4}$  mm. diam., ostiolo lineari, laterali, vix prominulo; ascis clavatis, cylindræis, 80  $\simeq$  8, pedicellatis; paraphysibus filiformibus, copiosis obvallatis; sporidiis distichis, fusoideis, leniter curvulis, olivaceis, 4-nucleatis, uniseptatis, ad septum constrictis, 18-20  $\simeq$  4-4 $\frac{1}{2}$ , supra septum inflatulis.

*Hab.* parasitice in stromatibus *Diatrypes Stigmatis*, Florida Amer. bor. — «An *Schizostoma?*».

Sect. 5. Dictyosporæ.

**LOPHIDIUM** Sacc. Syll. II, p. 710.

1. **Lophidium compressum** (Pers.) Sacc. Syll. II, p. 711. — Huc, teste 4316  
Berlese, spectat *Lophiost. Crouanii* Nits., Add. Syll. p. 430.

— Var. **microsporum** Karst. in Medd. af Soc. pro Faun. et Fl. Fenn. 11, 1884, p. 140, Rev. atque Synop. Asc om. fenn. pag. 84.  
— Peritheciis superficialibus, conoideo-sphæroideis; sporidiis 15-18  $\simeq$  5-6.

*Hab.* in ligno vetusto pr. Jvalojoki in Lapponia Inarensi.

2. **Lophidium aromaticum** Fabr. — Syll. II, p. 716. — Huc, teste  
Berlese, spectat *Loph. pseudocompressum* Sacc. et Berl., Add. Syll. p. 250.

3. **Lophidium purpurascens** Mout. Not. Ascom. p. 5. — Peritheciis 4317

gregariis, ligno extus vix manifeste, intus autem intense purpurato, vulgo omnino immersis, depresse globosis vel ellipsoideis,  $\frac{1}{3}$  mm. diam., atris, coriaceis, ostiolo brevi, interdum poriformi instructis; ascis clavatis, brevissime stipitatis, apice rotundatis, 8-sporis, 150  $\simeq$  26, paraphysatis; sporidiis oblongis, rectis v. curvulis, utrinque rotundatis, olivaceis, zona gelatinosa, hyalina, circumdatis, transverse 7-septatis, loculis 1-3 longitudinaliter divisis, ad septa omnia subconstrictis, loculo quoque grosse 1-guttatis, 34-38  $\simeq$  15.

*Hab.* in ramulis decorticatis Salicis pr. Liège Belgii. — *L. pachysporo* et *L. thyridioidi* affine.

4. **Lophidium melanommoides** Speg. F. Fueg. n. 293. — Peritheciis 4318  
matrice infuscata dense gregariis, subsuperficialibus v. semiimmersis, globulosis, 350-400  $\mu$ . diam., atris, subrugulosis, carbonaceis, ostiolo minuto, papillulato, compresso coronatis; ascis cylindraceutis, apice truncato-rotundatis, crassimeque tunicatis, basi breviter attenuato-pedicellatis, 80-85  $\approx$  12-15, dense paraphysatis, 8-sporis; sporidiis oblique monostichis, ellipticis v. elliptico-biconicis, utrinque obtusiuscule rotundatis, 16-25  $\approx$  7-10, rectis v. curvulis, horizontaliter 3-7-septatis, non v. parce constrictis, segmento supero obtuso, infero sæpius acutiore, loculis 1-5 (rarissime 0) internis v. externis, septo altero quandoque continuo, quandoque interrupto v. obliquo divisis, fuliginosis, polis pallidioribus.

*Hab.* in ramulis dejectis putrescentibus Escalloniæ serratæ pr. Penguin rookery in Staten island Fuegiæ.

5. **Lophidium minus** Ellis Amer. Nat. 1883, p. 316, Berl. Ic. I, p. 16, 4319  
t. X, f. 3. — Erumpens, conicum, 0,3-0,5 mm. diam., ostiolo angusto obsolete prominulo; ascis subcylindricis, 50-60  $\approx$  7-8, copiose filiformi-paraphysatis; sporidiis monostichis v. superne inordinatis, oblongo-ellipticis, 3-septatis, septoque longitudinali divisis, 9-13  $\approx$  5-7, olivaceo-fuliginosis, appendicula cylindraceuta brevi obtusa subinde auctis.

*Hab.* in ramis Nysæ multifloræ, Newfield New Jersey Amer. bor. — Sec. ic. Berl. l. c. sunt poridia 14-16  $\approx$  6-8, ad septa leniter constricta, exappendiculata. Ob ostiola vix compressa inter *Lophidium* et *Teichosporam* nutat.

6. **Lophidium inops** Passer. Diagn. Fungi nuovi, I, n. 73. — Peritheciis 4320  
sparsis v. subgregariis, basi insculptis, subglobosis, ostiolo compresso, lineari v. etiam inflato et varie deformi, sæpe sterilibus; ascis oblongo-subclavatis; paraphysibus filiformibus, stipatis, 8-sporis, 95  $\approx$  5; sporidiis elliptico-oblongis, initio hyalinis, medio septatis, dein e luteo fuscis, 3-7-septatis et muriformibus, loculis guttulatis, 22-27  $\approx$  8-10.

*Hab.* in cortice vetusto Æsculi Hippocastani, Parma in Italia boreali.

7. **Lophidium subgregarium** C. Mass. Contr. Mic. Ver. pag. 76, t. I, 4321  
f. 1. — Peritheciis fere superficialibus, carbonaceis, globosis, circiter 1 mm. diam., laxè disseminatis, apice ostiolo vario vix compresso pertusis; ascis paraphysibus linearibus intermixtis, magni-

tudine variabili, ut plurimum tamen 120-170  $\times$  20-28, oblongis, inferne attenuato-stipitatis; sporidiis 38-48  $\times$  12-18, oblongis, subbifariis, octonis, maturis fuscis, 7-8-septato-muriformibus, ad septa subconstrictis, loculis guttulatis.

*Hab.* in cortice trunci Juglandis regiæ pr. Cogolo in agro veronensi Ital. bor. — *L. gregario* affine, sed præcipue sporidiorum magnitudine diversum.

8. **Lophidium fenestrale** (Cooke et Ell.) Sacc. Syll. II, p. 715, Berlese Fungi moric. fasc. II, n. 6, t. 6, f. 1-11, Ic. t. XI, f. 2. — Perithecia subsuperficialia, quandoque ligno immersa, sparsa, subglobosa,  $\frac{2}{3}$ -1 mm. diam., rugosiuscula, ostiolo lateraliter compresso, sæpe elongato donata; asci clavati, prælongi, crasse tunicati, apice foveolati, brevissime pedicellati; paraphysibus filiformibus crassiusculis obvallati, 210-220  $\times$  24-27, octospori; sporidia subdisticha, raro oblique monosticha, obtusa, fusiformia, 11-15-septata, medio constricta, loculis 3-4-septulis longitudinalibus divisis, 58-60  $\times$  17-19, initio pallida, dein flavo-rufescentia, tandem fuliginea, opaca, juniora cribrose guttulata, septo medio divisa, longiora, 60-64  $\times$  18, hyalina.

8. **Lophidium Ritro** Pass. Diagn. Fung. nuovi, I, n. 72. — Peritheciis 4322 sparsis v. subgregariis, tectis, ostiolo compresso, lineari, atro-nitido, vix prominulo instructis; ascis clavatis, basi attenuatis, paraphysibus copiosis, filiformibus, superantibus obvallatis, 8-sporis, 75  $\times$  15; sporidiis distichis fusiformibus, 5- raro 6-septatis, loculis uniguttulatis vel paucis biguttulatis, hisque tandem loculo longitudinali divisis, 23  $\times$  7,5, flavo-fuscis.

*Hab.* in caule putrido Echinopis Ritro, Gajone prope Parmam Ital. bor.

**LOPHIDIOPSIS** Berl. Ic. fung. I, pag. 19 (Etym. *Lophidium* et *ops* aspectus). — Perithecia plus minus immersa, demum emergentia, sparsa, ostiolo compresso. Asci octospori. Sporidia oblonga, pluri-septato-muriformia, subhyalina.

1. **Lophidiopsis nuculoides** (Sacc.) Berl. loc. cit. t. XI, f. 5, *Lophi-* 4323  
*dium nuculoides* Sacc. Add. Syll. p. 260, *Lophiotrema Nucula*, var. *nuculoides* Sacc. Syll. II, p. 680, *Lophiostoma Nucula* Rehm. Ascom. n. 481, *Loph. nuculoides* Winter Die Pilze II, pag. 306, *Loph. anisomerum* Nits. in Lehm. Loph. pag. 86, f. 54, *Loph. brachystomum* Nits. in Lehm. Loph. p. 88, fig. 59. — Peritheciis primitus plus minus immersis, demum emergentibus et sæpe su-

perificialibus, globosis,  $\frac{1}{3}$ - $\frac{3}{4}$  mm. diam., atris, ostiolo minuto, angusto, truncato; ascis cylindræis, subsessilibus, 8-sporis, 150-160 = 16-17; sporidiis oblique monostichis, oblongis, medio parum constrictis, utrinque rotundatis, transverse 5-septatis, in longitudine sepimento uno imperfecto divisis, hyalinis demum fuscidulis, 24-26 = 8-10; paraphysibus filiformibus.

*Hab.* ad truncos Populi et Salicis, Augsburg Germaniæ et in Ital. bor.

### Sect. 6. Scolecosporæ.

**LOPHIONEMA** Sacc. Syll. II, p. 717, Berl. Ic. I, t. XI.

1. **Lophionema implexum** E. et E. Journ. Myc. 1888, p. 75 (ex errore 63). — Peritheciis gregariis, pilis brunneis, strigosis vestitis, ovoideis, circ.  $\frac{1}{3}$  mm. diam., subcuticularibus, supra cum ostiolo erumpentibus; ostiolo obtuse conico, subcompresso; ascis 150-160 = 8-10, clavato-cylindræis, copiose filiformi-paraphysibus; sporidiis filiformibus, contortis, ascis subæquilongis.

*Hab.* in radicibus adventiciis Sorghi halepansis et in vaginis foliorum Andropogonis? Pointe à la Hache Louisiana Amer. bor. (LANGLOIS). — Sec. Berl. Ic. I, pag. 19, potius *Ophioboli* species.

**Fam. 9. Hemihysteriaceæ** SPEG. Fungi Guar. Pug. I, p. 258.

Perithecia simplicia vel stromatice aggregata, dimidiato-scutata, subiculo nullo vel plus minusve evoluto insidentia, ostiolo hysterioideo donata. Asci octospori. Sporidia (ad diem) didyma, fuliginea.

### Clavis analytica Generum.

*Morenoella*. Perithecia estromatica, subiculo insidentia; asci ovoidei, aparaphysati.

*Schneepia*. Stromata orbicularia; perithecia linearia, radiantia; asci cylindrici, paraphysati.

*Hysterostomella*. Stromata irregulariter suborbicularia; perithecia dense irregulariterque constipata, difformia; asci ovati, aparaphysati.

**MORENOELLA** Speg. Fungi Guar. Pug. I, p. 258 (Etym. a præclaro FRANCISCO MORENO Argentinæ filio, naturæ sedulo perscrutatore). — Perithecia subiculo plus minusve evoluto insidentia, discoidea vel elliptica, hysterioideo-rimosa. Asci ovoidei, 8-spori, aparaphy-

sati. Sporidia didyma, fusca. — Genus speciosellum distinctissimum, a *Lembosia* Lév. peritheciis dimidiato-scutatis recedens, sed species *Lembosicæ* plurimæ forte huc transferendæ. — Cl. Spegazzini in Fung. Puigg. speciem suam primariam hujus generis ad *Lembosiam* retulit, quæ vero, saltem in typicis, peritheciis dimidiatis uti videtur. Cur.?

1. **Morenoella ampulligera** Speg. F. Guar. I, n. 303. *Lembosia* Speg. 4325

F. Puigg. n. 371. — Maculis nullis; subiculo parco, superficiali, subcrustaceo velutino, orbiculariter expanso, 2-3 mm. diam., hinc inde sparso, epiphylo, atro, ex hyphis cylindræis, rectiusculis, laxè intricatis (5  $\mu$ . crass.), fuligineis, densiuscule ramulosis, ramulis conico-ampulluliformibus, 10  $\approx$  5, distichis, concoloribus ornatis composito; peritheciis in cæspitulos subiculi laxè gregariis, ellipticis, vel laxè subtrigonis, 150-200  $\approx$  100-120, dimidiato-scutatis, tenui membranaceis, atris, primo astomis, dein longitudinaliter rimose dehiscentibus, contextu eximie radiante prosenchymatico, margine integris, pellucidis, fumoso-atris; ascis paucis elliptico-ovatis, antice obtusissime rotundatis, crasseque tunicatis, postice abruptè rotundato-coarctatis, brevissime pedicellatis, 30-35  $\approx$  15-18, aparaphysatis, 8-sporis; sporidiis di-tristichis, ellipticis vel subovatis, medio 1-septatis, valide constrictis, loculis subæqualibus, utrinque obtusis, 12-13  $\approx$  5, rectis v. leniter curvulis, primo hyalinis, dein fuscis.

*Hab.* ad folia viva *Nectandra* spec. cujusdam in silvis prope Piragu Brasilæ. — Var. **meizospora**. Cfr. F. Puigg. n. 371: — Hyphopodiis quam in typo longioribus, 15  $\approx$  5; sporidiis conspicue majoribus, 18-20  $\mu$ . l., loculo supero globoso-ovoideo, 8  $\mu$ . diam., infero conoideo-obovato, 10  $\approx$  7, fuligineis. Ad folia viva *Laurineæ* cujusdam in silvis pr. Apiahy Brasilæ.

2. **Morenoella Myrtacearum** Speg. F. Puigg. n. 374 (sub *Lembosia*). 4326

— Mycelio pelliculoso-maculoso, atro, 3-5 mm. diam., ex hyphis flexuosulis, sæpius opposite ramosis, 5-7  $\mu$ . cr., hyphopodiis ampulluliformibus, alternis, 12  $\approx$  4, ornatis, composito; peritheciis dimidiato-scutatis, ellipticis, non vel vix fimbriatulis, 300-600  $\approx$  120-150; ascis clavato-piriformibus, 30-40  $\approx$  18-20, aparaphysatis; sporidiis clavulatis, fuligineis, 1-septatis, 18-20  $\approx$  7-8.

*Hab.* ad folia viva *Eugeniæ* sp. cujusdam in nemorosis pr. Apiahy Brasilæ. — Species *M. ampulluligeræ* Speg. valde affinis, sed recedit mycelio magis crustaceo, hyphopodiis subramuliformibus semper alternis laxis, loculo infero sporidiorum cylindræo.

3. **Morenoella? microscopica** Speg. F. Puigg. n. 373 (sub *Lembosia*). 4327

— Maculis determinatis, albo-pallescentibus, 3-10 mm. diam.; peritheciis dimidiato-scutatis, sparsis, hypophyllis, linearibus, atris, subiculo omnino destitutis, 250-1500  $\approx$  50-70; ascis ovatis v. piriformibus, 15-16  $\approx$  7-8, aparaphysatis; sporidiis obovatis, 6-7  $\approx$  2, olivascentibus.

*Hab.* ad folia languida *Eugeniæ* sp. cujusdam in silvis pr. Apiahy Brasiliæ. — Species pulchella perpusilla difficillime inveniendi, a genere subiculi defectu satis deflectens.

4. **Morenoella macrospora** Sacc. et Paol. Myc. Malac. p. 25, t. III, 4328

f. 1 (sub *Lembosia*). — Hypophylla, effusa, atra; hyphis repentibus, adpressis, ramosis, subradiantibus; peritheciis dimidiatis, scutiformi-applanatis, membranaceis,  $\frac{1}{2}$ -1 mm. latis, demum rimosis; ascis e globoso ellipsoideis, sessilibus, 70  $\mu$ . diam., membrana crassiuscula persistente, 6-8-sporis; sporidiis oblongis, constricto-uniseptatis, diu hyalinis et mucro obvolutis, tandem fuliginis, 45  $\approx$  21.

*Hab.* in foliis coriaceis languidis arboris ignotæ in peninsula malacensi (B. SCORTECHINI). — A *Lemb. catervaria* differt quia hypophylla et sporidiis tertio majoribus.

5. **Morenoella antarctica** Speg. F. Fueg. n. 283. — Peritheciis spar- 4329

sis, minutis, 0,5-1,5 mm. long., 0,2-0,3 mm. lat., simplicibus vel subramulosis, utrinque acutiuscule rotundatis, rectis v. subflexuosis, atris, superficialibus, scutato-dimidiatis, tenui-membranaceis, contextu densiuscule prosenchymatico-radiante, margine denticulato-subfimbriatulo, pellucido, fuligineo, ostiolo rimoso per totam longitudinem percursis; ascis ovatis v. obovatis, antice late truncato-rotundatis crassissimeque tunicatis, 26-27  $\approx$  13-14, basi pedicello brevissimo, crasso suffultis, 8-sporis, aparaphysatis; sporidiis conglobatis, elliptico-clavulatis, 10  $\approx$  3, rectis, medio 1-septatis, non constrictis, loculo supero crassiore acutiuscule rotundato, infero subcylindræo, gracili, rotundato-subtruncato, primo hyalinis, dein fusco-subfuliginis, an prima ætate strato mucoso, tenui obvolutis?

*Hab.* in culmis emortuis putrescentibus *Rostkoviæ grandifloræ* in Staten island et Fuegia Amer. austr.

6. **Morenoella australis** Speg. F. Fueg. n. 284. — Peritheciis spar- 4320

sis, minutis, 0,5-1 mm. long., 0,1-0,15 mm. lat., simplicibus vel subramulosis, utrinque obtusiusculis, rectis vel flexuosis, atris, superficialibus, dimidiatis, scutato-adfixis, tenui-membranaceis, contextu densiuscule prosenchymatico-radiante, margine vix denticulato, pellucido, fuligineo, ostiolo rimoso percursis; ascis subglobo-



sis vel ovatis, apice truncato-rotundatis, basi stipite brevissimo crassissimoque suffultis, 14-16  $\approx$  10-12, 4-6-8-sporis, aparaphysatis; sporidiis elliptico-clavulatis, rectis v. inæquilateralibus, 6-8  $\approx$  2,5-3, medio 1-septatis, non constrictis, loculo supero conoideo, vertice obtuse rotundato, infero subcylindræo, rotundato, primo hyalinis, dein fuscescentibus.

*Hab.* in foliis vaginisque putrescentibus Poæ Forsteri in Staten island Fuegiæ. — Hæc et præcedens species labiis rimæ ostiolaris tenuibus, acute conniventibus, per ætatem non vel vix apertis, sæpius frustulatim lacero-dehiscentibus distinguuntur.

**SCHNEEPIA** Speg. Fungi Guar. Pug. I, p. 259 (Etym. a claro Doctore SCHNEEP guaranitici imperii scrutatore acutissimo). — Stromata superficialia, orbicularia, dimidiato-scutata. Perithecia in stromate dense constipata, linearia, radiantia, ostiolis hysteroideis, in centro stromatis, sitis donata. Asci cylindræci paraphysati, 8-spori. Sporidia elliptica, didyma, fusca.

1. **Schneepia guaranitica** Speg. Fungi Guar. n. 304. — Maculis nul- 4331  
lis; stromatibus epiphyllis, sparsis, superficialibus, orbicularibus, 1,5-2 mm. diam., atris, radiatim densiuscule rugulosis, ambitu centroque tantum matrici adnatis, dimidiato-scutatis, medium versus ostiolis asperis, contextu parenchymatico, margine minutissime fimbriatulis; peritheciis dense constipato-radiatis (an loculis?), rectis v. leniter flexuosis, ovatis, sæpe vix divisis ac subconfluentibus, 450-500  $\approx$  150-200, centrum stromatis non attingentibus, pulpa ceracea, fuscidula repletis, ostiolis pavulis, hysteroideis, subradiantibus v. subconcentricis v. irregularibus labiis tumidulis donatis præditis; ascis, cylindræcis, apice truncato-rotundatis, crassissime tunicatis, uni-foveolatis, deorsum breviter attenuatis, minute noduloseque stipitatis, 50-65  $\approx$  12-14, paraphysibus parcis, simplicibus obvallatis, 8-sporis; sporidiis distichis, elliptico-ovatis, utrinque obtusiusculis, 14  $\approx$  5, loculis, subæqualibus, superiore vix crassiore brevioraque, minute 2-guttulatis, primo hyalinis, dein fuscidulis.

*Hab.* ad folia viva Styracis spec. cujusdam in dumetis convallis Ya-Kan Brasilæ.

2. **Schneepia pulchella** Speg. F. Guar. II, n. 141. — Peritheciis 10-20 4332  
radiatim aggregato-confluentibus, stromate parcissimo junctis, fere liberis, plagulas orbiculares, 1-2 mm. diam., atras efficientibus, linearibus, dimidiatis, 300-600  $\approx$  50-80 extremitate externa obtusa,

altera acutato-confluentibus, rima longitudinali impressa dehiscen-  
tibus, thallo furfuraceo-subcinerescente (an in vivo virescente?) sub-  
insidenti-areolatis, subcarbonaceis, atris, opacis, sub lente radia-  
tim fibroso-radiatis, contextu tamen indistincto; ascis e cylindra-  
ceo obclavatis, apice obtuse rotundatis crassiusculeque tunicatis,  
basi subcuneatis, brevissime crasseque stipitatis, 80-90  $\approx$  16-18, pa-  
raphysibus filiformibus, sublongioribus, densiusculis, apice subcoa-  
lescentibus fuscescentibusque obvallatis, 8-sporis; sporidiis subrecte  
distichis, ellipticis, v. elliptico-obovatis, utrinque obtusiusculis, 16-  
17  $\approx$  6-7, loculo infero supero æquilongo sed sæpe subgraciliore,  
primo hyalinis (muco obovolutis?) dein pallide fuligineis.

*Hab.* ad folia viva Sapotaceæ cujusdam in silvis subvirginis  
pr. Guarapí Brasilæ. — Species thallo cinerescenti-virescente do-  
nata ac fere lichenina, fabrica tamen omnium partium eximie fun-  
gina atque odore ac iodi ope nullis.

3. **Schneepia? Arechavaletæ** Speg. F. Puigg. n. 378. — Stromatibus 4333  
scutatis, majusculis, 2-6 mm. diam., dense radiatim sulcato-peri-  
theciigeris; peritheciis acute rimulosis, vix centro levibus v. sub-  
umbilicatis, atris, opacis, 1-2,5 mm. long., 300-500  $\mu$ . lat.; ascis  
elliptico-cylindraceutis, 50-60  $\approx$  15-20, parce clavulato-paraphysatis;  
sporidiis obvatis, didymis, hyalinis, 16-18  $\approx$  7-8.

*Hab.* ad folia viva *Styracis parvifoliæ* in dumetis prope  
Itabirã do campo, secus Rio das Velhas Brasilæ (Cl. J. ARECHA-  
VALETA). — Species nobilissima, *S. guaranitica* Speg. peraffinis,  
a qua tamen recedit peritheciis eximie prominulo-radiatis, ascis  
brevioribus, paraphysibus apice olivascentibus ac sporidiis nonnihil  
longioribus. Huc certe *Actidium Hænkei* F. Nees et facillime etiam  
*Parmularia Styracis* Lév. spectant.

**HYSTEROSTOMELLA** Speg. Fungi Guar. Puig. I, p. 260 (Etym. *hy-*  
*stera* uterus et *stoma* ostiolum). — Stromata irregulariter subor-  
bicularia, dimidiato-scutata. Perithecia in stromate dense irregula-  
riterque constipata, difformia, ostiolis hysterioideis donata. Ascis  
ovatis v. subglobosis, 8-spori, aparaphysati. Sporidia, ovata, didy-  
ma, fuliginea.

1. **Hysterostomella guaranitica** Speg. Fungi Guar. Pug. I, n. 305. — 4334  
Maculis nullis stromatibus epiphyllis sparsis, rarius aggregato-con-  
fluentibus, superficialibus, irregulariter suborbicularibus, 1,5-2 mm.  
diam., atris, glabris, ambitu sinuosulo-undulato, minute rugulosis, di-

midiato-scutatis, membranaceo-coriaceis, subfragilibus, contextu indistincto, opaco; peritheciis stromate innatis, tunica propria deficientibus, elliptico-diformibus, sæpe confluentibus, pulpa gelatinosa, fusca farctis, ostiolis hysteroideis, in stromate prominulis parvulis donatis; ascis ovatis, sursum crassiuscule tunicatis, deorsum attenuatis, pedicello crasso parvulo præditis, 45-55  $\approx$  25-35, apapophysatis, 8-sporis; sporidiis conglobatis, ovatis, utinque obtusiusculis, 24-28  $\approx$  10-15, medio 1-septatis, constrictis, loculis subæqualibus, granulosis non vel crasse 1-guttulatis, supero nonnihil majore obtusioreque, primo hyalinis, dein fuliginis.

*Hab.* ad folia viva Euphorbiceæ arboreæ cujusdam in silvis subvirgineis prope Mbatobi Brasilæ. — Tunica ascorum per ætatem sæpius chlorinula evadit.

2. **Hysterostomella circinata** Speg. F. Puigg. n. 376. — Stromatibus 4335 irregulariter suborbiculari-repandis, 3-6 mm. d., crustaceis, atris, ostiolis subcircinatis, rimosis, breviusculis, 300-600  $\approx$  120-180, exasperatis; peritheciis lineari-flexuosis, 500-1000  $\approx$  150-250; ascis piriformibus, 60-70  $\approx$  40-50, apapophysatis; sporidiis majusculis, obovatis, 1-septatis, loculo supero brevioribus, fuliginis, 34-40  $\approx$  16-20.

*Hab.* ad folia subcoriacea plantæ cujusdam ignotæ in silvis pr. Apiahy, Brasilæ. — Species pulchella *H. guaraniticæ* Speg. peraffinis sed bene distincta; primo intuitu facillime pro *Lembosia* quadam, ob ostiola prominula latiuscule aperta 1- v. 2-circinata, sumenda.

3. **Hysterostomella? rhytismoides** Speg. F. Puigg. n. 377. — Stro- 4336 matibus hypophyllis, irregulariter ellipsoideo-expansis, majusculis, tenuiter crustaceis, arcte adnatis, atris, glabris, subimperspicue concentriceque rugulosis, 1-5  $\approx$  0,5-4 mm.; loculis linearibus, concentricis, gracillimis, rimose dehiscentibus, 0,5-2 mm. long., 50-70  $\mu$ . lat.; ascis cylindræis, 42-50  $\approx$  10-12, apapophysatis; sporidiis minutis, elliptico-clavulatis, 1-septatis, hyalinis (an semper?), 11-12  $\approx$  3-5.

*Hab.* ad folia viva Lomariæ imperialis in nemorosis pr. Apiahy Brasilæ. — Species pulcherrima mox dignoscenda. Species perplurimæ, generis *Rhytismatis* auctorum, a me inspectæ, sub hoc genere militant. Ita Speg. loc. cit. = *H. Puigg. Speg.*

Fam. 10. **Hysteriaceæ** CORDA.Sect. 1. **Hyalosporæ.****SCHIZOTHYRIUM** Desm. — Syll. II, p. 723.

1. **Schizothyrium Rhododendri** Pat. in Rev. Myc. 1886, p. 180. — 4337  
 Orbiculare, applanatum, 2-3 mm. longum, 1-2 mm. latum, ex epidermide longitudinaliter rupta vix prominens; ascis octosporis, 120-150  $\approx$  13-15; sporidiis monostichis, ovoideis, levibus, hyalinis, continuis, 13-16  $\approx$  7-10; paraphysibus copiosissimis, filiformibus, flexuosis, ascos superantibus.

*Hab.* in cortice *Rhododendri*, Yunnan Sinarum (AB. DELAVAY).

2. **Schizothyrium Eucalyptorum** Cooke et Mass. in Grev. XVI, p. 4. 4338  
 — Epiphyllum, subsuperficiale, maculis orbicularibus, rufis insidens, minutum, lineari-ellipticum, atrum, nitidum, labris arcte conniventibus; ascis clavatis, 8-sporis; sporidiis ellipticis, continuis, hyalinis, 8  $\approx$  4.

*Hab.* in foliis languidis *Eucalypti obliquæ*, Yarra super., Australiæ (J. G. LUCHMANN).

3. **Schizothyrium parallelum** Karst. in Hedwigia 1889, p. 194. — 4339  
 Peritheciis gregariis v. confertis, superficialibus, parallelis, carbonaceis, linearibus, elongatis v. oblongatis, utrinque obtusis, convexis, rectis, rarissime flexuosis, levibus, atris, rima percursis, 0,3-0,8 mm. longis; ascis cylindraceutis, circiter 45  $\approx$  5-6, octosporis; sporidiis monostichis, oblongatis, aut ellipsoideo- v. ovoideo-oblongatis, continuis, primitus 2-guttulatis, chlorino-hyalinis, 6-7  $\approx$  2-3; paraphysibus filiformibus, coalescentibus, ascos superantibus, 0,5-1  $\mu$ . crassis.

*Hab.* ad lignum vetustum in Minas Carassa Brasilæ. — Ad *Glonium* vergit.

4. **Schizothyrium Juglandis** Rich. Cat. Champ. Marn. Suppl. p. 549. 4340  
 — Peritheciis nigris, minutissimis; ascis clavatis, 4-6-sporis; sporidiis hyalinis, ellipsoideo-fusoideis, 8  $\mu$ . long.; paraphysibus continuis, apice incrassatis.

*Hab.* in petiolis foliorum emortuorum *Juglandis regiæ*, St. Amand Marne Galliæ.

Sect. 2. **Phæosporæ.****FARLOWIELLA** Sacc. Sic nominandam genus *Farlowia* Sacc. Syll. II,

p. 727, nam adest jam ab anno 1876 gen. homonymon ex Florideis ab J. Agardh conditum, teste Schmitz in Flora 1889.

1. **Farlowiella repanda** (Blox.) Sacc. Cfr. Syll. II, p. 727. — Species nuper reperta in ramis decorticatis fagineis, Groenendael Belgii a Dom. Bommer et Rousseau (Contr. Fl. myc. II, p. 5). In his specimenibus sunt asci  $78 \approx 15$ ; sporidia ovoideo-cymbiformia, continua, brunnea,  $15 \approx 5-6$ , hyalino-appendiculata.
2. **Farlowiella Carmichaeliana** (Berk.) Sacc., *Hysterium* Berk. Syll. II, p. 753, Sec. Cooke, Grev. XVII, p. 58, huc spectat, nam sporidia sunt similia illis *F. repanda*, sed  $30-32 \approx 18$ .

**LEMBOSIELLA** Sacc. n. g. (Etym. a *Lembosia* cui affinis), *Lembosicæ* spec. Pat. — Perithecia et habitus *Lembosicæ*, sed asci pleiospori. Sporidia continua, fuliginea.

1. **Lembosiella polyspora** (Pat.) Sacc., *Lembosia polyspora* Pat. Bull. 4341 Soc. Myc. 1887, p. 125. Epiphylla; peritheciis numerosissimis, ad maculas nigrescentes, ex hyphis ramosis, septatis, brunneis, folio adherentibus compositas sparsis, elongatis, fusoides, simplicibus v. furcatis, nigris, 0,5-1 mm. long., rima, longitudinali dehiscentibus; ascis globosis v. elongatis, subsessilibus, membrana crassa,  $33-40 \approx 23-30$ , aparaphysatis, 10-12-sporis; sporidiis ovoideis, primo hyalinis, dein brunneis, non septatis,  $10 \approx 6-7$ .

*Hab.* in foliis coriaceis *Ochnaceæ* cujusdam, Congo Afr. occid.

### Sect. 3. Hyalodidymæ.

**AULOGRAPHUM** Lib. — Sacc. Syll. II, p. 727.

1. **Aulographum reticulatum** Phill. et Harkn. New Calif. Fungi p. 8. 4342 — Ovatum, adnato-superficiale, reticulatum sparsum, labiis subtilibus; ascis piriformibus; sporidiis obovatis, uniseptatis, hyalinis,  $14 \approx 4$ .

*Hab.* in pagina inferiore foliorum *Quercus agrifoliæ* in California.

2. **Aulographum melioloides** Cooke et Mass. in Grevillea XVIII, p. 6. 4343 — Epiphyllum, maculis atris, orbicularibus vel confluentibus, filis radiantibus mycelicis compositis; peritheciis adnatis, gregariis, elongatis, linearibus, flexuosis, atris, labiis arctissime clausis, maculas sistentibus; ascis oblongis, 8-sporis; sporidiis ellipticis, medio constrictis, uniseptatis, hyalinis,  $12-14 \approx 7-8$ .

*Hab.* in foliis coriaceis vivis languidisve, Brisbane Australiæ (BAILEY).

3. **Aulographum Eucalypti** Cooke et Mass. in Grevillea XVIII, p. 6. 4344  
— Amphigenum; peritheciis gregariis, maculas subcirculares sistentibus, linearibus v. confluentibus, rectis vel curvulis, labiis in sicco arcte clausis, atris, minutis; ascis clavatis, 8-sporis; sporidiis biserialibus, subfusiformibus, uni-triseptatis, hyalinis, 9-10  $\approx$  4.

*Hab.* in foliis emortuis Eucalypti, Lilydale Australiæ (Mrs. MARTIN). «An potius *Glioniellæ* species?».

4. **Aulographum maculare** B. et Br., Sacc. Syll. II, pag. 730. — Asci 4345  
subglobulosi, basi apiculati, 30  $\approx$  20; sporidia didyma, 10-12  $\approx$  5, hyalina.

5. **Aulographum Arundinariæ** Cooke in Grevillea XIV, pag. 14. — Peritheciis erumpentibus, demum superficialibus, gregariis, linearibus, rectis, plerumque longitudinaliter confluentibus, labiis arctatis, atris, subnitidis, 1-2 mm. long.: ascis piriformibus, octosporis; sporidiis subellipticis, deorsum attenuatis, uniseptatis, nec constrictis, hyalinis, 13-15  $\approx$  5.

*Hab.* in culmis Arundinariæ, Darien Georgia Amer. bor. (RAVENEL).

**GLONIUM** Mühl. — Sacc. Syll. II, p. 731.

I. *Eu-Glonium*. Asci octospori.

1. **Glonium tryblidioides** Ell. et Ev. in Torr. Bot. Club. 1883, p. 76. — 4346  
Peritheciis emergentibus, oblongis, utrinque obtusis, 1-2 mm. longis, 0,5-0,75 mm. latis, labiis incurvatis, levibus, distantibus, discum fuligineum, constanter expositum relinquentibus; ascis clavato-cylindræis, sessilibus, 80-90  $\approx$  9-12; paraphysibus dense coalitis, compactis, apice obscurioribus, discum fuligineo colorantibus obvallatis; sporidiis monostichis vel sursum subdistichis, ovatis, uniseptatis, hyalinis, 12-16  $\approx$  5-7.

*Hab.* in asseribus sepiariis vetustis, Washington Amer. bor. (W. N. SUKSDORF).

2. **Glonium cœnobiticum** Duby in herb., Rehm Rev. Hyst. Dub. p. 37. 4347  
— Peritheciis sessilibus, non immersis, gregariis, linearibus, obtusis, rectis, rima longitudinali divisis, parallelis, 3 mm. longis, 1/2 mm. lat.; ascis crassis, clavato-ellipsoideis, 60  $\approx$  15; sporidiis octonis, distichis, clavatis, acutiusculis, hyalinis, bicellularibus, mucosè subtiliter obvolutis, 15  $\approx$  5-6; paraphysibus sursum ramosis, epithecium brunneum formantibus.

*Hab.* in ramis *Jasmini fruticantis*, S. Antoine de Galamus Pyr. or.

3. **Glonium dichænoides** (Rich.) Sacc., *Sphæria dichænoides* Rich. 4348  
Cat. Champ. Marn. n. 1432. — Peritheciis agglomeratis, maculas rugosas, nigras formantibus, ellipsoideis, supra applanatis, rima longitudinali dehiscentibus, pulvinulo tomentoso, brunneo suffultis; ascis clavatis; paraphysibus simplicibus v. subramosis; sporidiis ellipsoideo-oblongis, 1-septatis, medio constrictis, 4-guttatis, hyalinis.

*Hab.* in caulibus emortuis *Rosæ caninæ* in silvis pineis, St. Amand, Marne Galliæ.

II. *Delphinella* Sacc. Asci polyspori.

4. **Glonium strobiligenum** (Desm.) Mout. Not. Ascom. p. 7, *Sphæria* 4349  
Desm., *Didymella* Sacc. Syll. I, p. 552. — Peritheciis gregariis, erumpentibus, orbicularibus v. oblongis,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. long., textura coriacea atra, rimose dehiscentibus; ascis cylindraceis, breviter stipitatis, apice rotundatis, 16-32-sporis,  $105 \approx 12$ ; paraphysibus coalescentibus, hyalinis; sporidiis longe ovoideis vel subpiriformibus, antice rotundatis, hyalinis, 1-septatis, loculo infero conico, subinde longiore,  $8-10 \approx 3,5$ .

*Hab.* in squamis strobilorum *Pini* sp. prope Anvers in Belgio atque in Gallia.

Sect. 4. Phæodidymæ.

**TRYBLIDIUM** Duf. — Sacc. Syll. II, p. 740.

1. **Tryblidium guaraniticum** Speg. Fung. Guar. Pug. I, n. 306. — 4350  
Erumpenti-innatum, hinc inde irregulariter v. seriatim dense congestum, atro-fuscum; peritheciis lineari-elongatis, e mutua pressione sæpissime flexuosis, trigonis v. subcupulato-polygonis, majusculis, 1-3 mm. 0,5 mm. latis, labiis tumidis, obtusis, costato-rugosis v. sublevibus, fuscis, plus minusve laxè conniventibus (in formis polygonis latiuscule apertis), involutis donatis, coriaceis, duris; ascis cylindraceis, antice rotundatis crassiusculeque tunicatis, postice attenuato-pedicellatis,  $130-140 \approx 10$ , 8-sporis, paraphysibus hyalinis, densissimis, apice fusco-coalescentibus, longioribus immersis; sporidiis recte monostichis, ellipticis, utrinque obtusiusculis,  $23-25 \approx 8-10$ , medio 1-septatis, constrictis, rectis vel leniter inæquilateralibus, oculis æqualibus, non v. crasse 1-guttulatis, primo hyalinis, dein opacè fuligineis.

*Hab.* ad cortices muscosos truncorum putrescentium in silvis prope Guarapi Brasiliæ.

2. **Tryblidium Abietis** Rich. Cat. Champ. Marn. Suppl. pag. 551. — 4351  
Peritheciis minutis, vix 1 mm. long., nigris, hysteriiformibus; ascis obovatis, 51  $\mu$ . long., sessilibus, 4-8-sporis, brunneis, 1-septatis, 14  $\mu$ . long.; paraphysibus parum distinctis, apice ramosis.

*Hab.* in ligno denudato Abietis, St. Amand, Marne Galliæ.

3. **Tryblidium turgidulum** Phill. et Harkn. New Calif. Fungi p. 5. — 4352  
Sparsum, sessile, oblongo-ellipticum, turgidum, leviusculum, nigrum; ascis clavatis; sporidiis oblongo-ellipsoideis, uniseptatis, centro fortiter constrictis, utroque loculo 5-6-pseudoseptato, rufo-brunneis, 60-90  $\approx$  13-20.

*Hab.* in caulibus emortuis *Pentastemonis breviflori* in California. — *T. sabinum* De Not., Syll. II, p. 741, teste Starb. Bidr. Sver. Ascom. p. 208, t. 4 B, f. 2-3, idem est ac *Karschia Sabinæ* Rehm, Syll. VIII, p. 701, quæ *K. sabina* (De Not.) Rehm dicenda.

**LEMBOSIA** Lév. — Sacc. Syll. II, p. 741.

1. **Lembosia graphioides** Sacc. et Berl. Misc. Myc. II, pag. 6. — 4353  
Peritheciis epiphyllis, gregariis, lineari-oblongis, subinde furcatis,  $\frac{1}{2}$ - $\frac{1}{8}$  mm., atris, carinulatis; subiculo obsoleto; ascis oblongo-clavatis, sessilibus, 40-45  $\approx$  12-14, 6-8-sporis, crasse, tunicatis, paraphysatis; sporidiis distichis, inæqualiter didymis, loculo infero minori, 12-14  $\approx$  6, dilute fuligineis.

*Hab.* in foliis languidis *Oleæ paniculatæ*, Logan, Queensland Australiæ. — Facies *Aulographi*.

2. **Lembosia orbicularis** Wint. in Hedw. 1885, p. 29. — 4354  
Peritheciis elongatis, utrinque acutis, plerumque varie irregulariterque curvatis vel subcontortis, labiis conniventibus, subnitide atris, in maculis suborbicularibus, atris, opacis, distincte limitatis, plerumque epiphyllis, e fibrillis ramosissimis, fuscis densissime coalitis, oculo armato tantum perspiciendis formatis, sæpe, confluentibus, 1-2 mm. lat., superficialibus; ascis e basi parum latiori oblongis, sessilibus, crasse tunicatis, 8-sporis, 60-70  $\approx$  19-23; paraphysibus tenuibus, ascos parum superantibus; sporidiis inordinatis, oblongo-subcylindricis, utrinque parum attenuatis et rotundatis, medio uniseptatis, subconstrictis, primo hyalinis, demum dilute fuscis, 24-26  $\approx$  8-9.



*Hab.* ad folia subviva *Eucalypti pilularis* in Australia (MÜLLER).

3. **Lembosia opaca** Speg. F. Guar. II, n. 139. — Mycelio maculas 4355 arcte matrice adnatas, suborbiculares, 1-5 mm., sparsas atras, centro subpelliculosas, margine nubiloso-evanescentes efformante, ex hyphis gracilibus, 3-5  $\mu$ . cr., densiuscule intricateque alterni-ramosis, hinc inde hyphopodiis parcis, alternis, divaricatis, subcylindræis, obtusiusculis, 10-12  $\approx$  4, ornatis efformato; peritheciis centro macularum densiuscule gregariis, ellipticis v. trigonis, 120-150  $\approx$  80-120, hysterioideo-rimosis, membranaceo-coriaceis, contextu indistincto, atro, opaco, vix margine subpellucidis, crenulato-fimbriatis; ascis piriformibus, antice modice incrassato-tunicatis, postice brevissime crasseque pedicellatis, 24  $\approx$  20, aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis v. subovatis, didymis, 12  $\approx$  5, ad septum constrictis, oculis subglobosis subæqualibusque, hyalinis, (an demum fuscis?).

*Hab.* ad folia *Myrsinæ* cujusdam in dumetis uliginosis, pr. Guarapi et Paraguari Brasilæ.

4. **Lembosia Drymidis** Lév. — Cfr. Syll. II, p. 743, Winter Pilz. v. 4356 Chile, n. 13, Speg. F. Fueg. n. 294. — Maculæ epiphyllæ, orbiculares, 3-5 mm. diam., determinatæ, subpulvinulatæ, nigræ vel fuscæ, zona marginali canescente sæpe donatæ; perithecia in maculis superficialia, laxè gregaria, subiculo fibroso, mucedineo-membranaceo, tenui, subfatiscente, fuligineo insidentia, elliptica v. subtrigona, simplicia v. subramulosa 200-300  $\approx$  80-150, inferne applanata, clausa, superne rotundata, rimula impressula percursa, atra, glabra, subcarbonacea, contextu indistincto, opaco; asci obovati, superne latiuscule rotundati, crasse tunicati, inferne cuneati, in pedicellum brevissimum crassumque producti, 28-35  $\approx$  15-20, subfluxiles, octospori, aparaphysati; sporidia conglobata, elliptica, utrinque rotundata, 15-18  $\approx$  7-8, medio 1-septata, leniter constricta, non v. vix subinæquilateralia, primo hyalina, dein dilute fuliginea.

*Hab.* vulgata ad folia viva v. languida *Drymidis Winteri* in Staten island Fuegiæ et *Drym. australis*, Chile austr.

5. **Lembosia congesta** Winter Exot. Pilze in Flora 1884, p. 9. — Ra- 4357 mulicola; peritheciis densissime congregatis, maculas atras, opacas, rotundato-irregulares, usque 4 mm. latas, compactas formantibus, elongatis, sæpe curvatis flexuosisque, utrinque attenuatis, rima longitudinali, demum pervia præditis, atris; hyphis in centro macularum non distinctis, in ambitu modo discretis, sed parcis, ra-

diantibus, parum ramosis, remote septatis, fuscis; ascis oblongo-clavatis, demum in stipitem brevem attenuatis, 8-sporis, 60-70  $\approx$  21-26; sporidiis inordinatis seu subdistichis, oblongis, uniseptatis, ad septum constrictis, maturis fuscis, 17-18  $\approx$  7-9; paraphysibus filiformibus, apice plerumque bicipitibus, fuscidulis, plus minusve conglutinatis.

*Hab.* ad ramulos juniores Carissæ Arduinæ in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

6. **Lembosia diffusa** Wint. in Hedw. 1885, p. 30, Sacc. et Berl. in 4358  
 Rev. Myc. 1885, t. LIV, f. 9. — Mycelio in maculis purpureo-fuscis, indeterminatis, epiphyllis radiatim effuso, e fibris laxè ramosis, ramis primariis distantibus, ramulis tenuioribus numerosis, intricatis præditis constante, maculas fusco-atras, rotundatas v. irregulares, usque 10 mm. latas formante; peritheciis sparsis, præcipue centro macularum insidentibus, primo punctiformibus, demum elongatis, lanceolatis, utrinque acutis, plerumque rectis, opacis, atris, labiis conniventibus, basi hyphis radiantibus cinctis; ascis subglobosis vel ellipticis, sessilibus, 8-sporis, 45-65  $\approx$  30-38; paraphysibus filiformibus, sursum subclavatis; sporidiis conglobatis, oblongis, utrinque rotundatis, medio uniseptatis constrictisque, fuscis, 20-28  $\approx$  12.

*Hab.* ad folia viva Melastomacearum speciei adhuc indeterminatæ, prope S. Francisco in Brasilia (E. ULE). — «Subinde hyphæ mycelii adsunt taxiformi-ramosæ, qua nota ad *Lembosiam Melastomatium* accedit, a qua specie tunc verisimiliter *L. diffusa* Wint. non satis differt».

7. **Lembosia? Puiggarii** Speg. F. Puigg. n. 375. — Mycelio vix maculoso-nubiloso, 3-8 mm. diam., ex hyphis irregulariter ramulosis, 5-6  $\mu$ . cr., hyphopodiis hemisphæricis, alternis, 8  $\mu$ . cr., donatis, composito; peritheciis laxè gregariis, ellipticis, non fimbriatis, 150-300  $\approx$  80-150; ascis piriformibus, 30-40  $\approx$  20-35, aparaphysatis; sporidiis clavulatis, fuliginis, 1-septatis, 24-28  $\approx$  8-9, loculo supero 10  $\approx$  9, infero 14-16  $\approx$  7-8. 4359

*Hab.* ad folia coriacea viva plantæ cujusdam ignotæ pr. Apiahy Brasiliæ.

8. **Lembosia Litoræ** (Cooke) Sacc., *Aulographum Litoræ* Cooke in 4360  
 Grevillea XII, p. 38. — Epiphyllum; maculis orbicularibus, fuscis; peritheciis linearibus, curvulis rectisve, atris, in maculis insidentibus, labiis conniventibus; ascis saccatis; sporidiis biglobosis, uniseptatis, fuscis, 7,5  $\approx$  3,5.

*Hab.* in foliis *Quercus aquaticæ*, Texas in Florida (RAVENEL).

9. **Lembosia acicola** (Harkn.) Sacc. *Aulographum acicolum* Harkn. 4361

New Calif. Fungi p. 26. — Peritheciis oblongis, circinatim dispositis, in maculis pallidis, applanatis, semiimmersis, rima longitudinali apertis,  $\frac{1}{2}$ -1 mm. longis; ascis globosis, octosporis, 25  $\mu$ . diam.; sporidiis oblongo-ovatis vel fusiformibus, 1-septato-constrictis, hyalinis, dein brunneis.

*Hab.* in foliis vivis *Pini Sabinianæ* in Monte Diablo Californiæ.

10. **Lembosia lucens** (Harkn.) Sacc. *Aulographum lucens* Harkn. 4362

New Calif. Fungi p. 26. — Peritheciis applanatis,  $\frac{1}{2}$ -1 mm. longis, rima longitudinali apertis, in maculis parum decoloratis sparsis; ascis ovatis, 8-sporis, 37  $\approx$  28; sporidiis oblongis, utrinque rotundatis, 1-septatis, septo vix constrictis, loculis crasse uniguttulatis, hyalinis, tandem brunneis, 21  $\approx$  10.

*Hab.* in sarmentis vivis *Garryæ ellipticæ*, Tamalpais Californiæ.

11. **Lembosia cæspitosa** (E. et E.) Sacc. *Aulographum cæspitosum* 4363

E. et E. in Journ. of Myc. I, pag. 151. — Peritheciis minutis,  $\frac{1}{4}$  mm. vel minus longis, applanatis, poro lato pertusis, basis setis brunneis, repentibus cinctis; ascis ovatis, sessilibus, 30  $\approx$  15; sporidiis stipatis, oblongo-fusiformibus, obtusis, hyalinis et uniseptatis, dein brunneis, sæpe 3-septatis, 15-20  $\approx$  3,5, ad septa constrictis.

*Hab.* in ligno decorticato *Cupressi*, Louisiana Amer. bor. (Prof. F. L. SCRIBNER). — «An *Hysterium?*»

12. **Lembosia copromya** Bomm. Rouss. Sacc. sp. n. — Peritheciis 4364

sparsis, superficialibus, membranaceis, nigris, suborbicularibus vel oblongis, margine parcissime fibrilloso, rima angusta longitudinali dehiscentibus, 270-300  $\mu$ . diam.; ascis obovatis v. saccatis, sessilibus, 36-60  $\approx$  21-27; sporidiis quaternis, ternis v. octonis, distichis, elliptico-subfusoides, diu hyalinis, dein fuligineis, 1-septatis, 2-guttulatis, constrictis, 19-22  $\approx$  9-10; paraphysibus obsolete, coalescentibus, subolivaceis.

*Hab.* in ramo emortuo *Tiliæ platyphyllæ*, Groenendael Belgii.

13. **Lembosia aulographoides** Bomm. Rouss. Sacc. sp. nov. — Peri- 4365

theeciis superficialibus, membranaceis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., sparsis, opacis, ellipticis, rima longitudinali sæpe furcata et flexuosa dehiscentibus; ascis ovoideis, sessilibus, octosporis, 45  $\approx$  28; sporidiis initio

hyalinis, fusoideis, 15-18  $\approx$  6, 1-septatis, dein oblongis obtusioribus, brunneo-olivaceis, 19  $\approx$  9, ad septum constrictis, loculis leniter inæqualibus; paraphysibus ascos paullo superantibus, apicibus rotundatis, chlorinis.

*Hab.* in ramulis tenellis emortuis Rhododendri pontici, Tervueren Belgii. — Subiculo subnullo et sporidiis diu hyalinis ad *Aulographum* vergit.

14. **Lembosia lirelliformis** (Cooke) Sacc. *Aulographum lirelliforme* 4366  
Cooke Trans. Roy. Soc. Edin. 1887, pag. 393. — Lineata, minuta, sparsa; peritheciis corneo-membranaceis, tenuibus, 1 mm. long., 0,2 mm. lat., labiis arcte conniventibus, atris; ascis saccatis, 80  $\approx$  30 octosporis; sporidiis ellipticis, uniseptatis, profunde constrictis, fuscis, 20  $\approx$  10; paraphysibus superne brunneis.

*Hab.* in ligno in insula Socotra.

15. **Lembosia globulifera** Pat. Journ. Bot. 1890, p. 65, f. 9. — Ma- 4367  
culis epiphyllis, nigricantibus, tenuissimis, mycelio parco, brunneo ex hyphis, 5  $\mu$ . lat., ramosis, hinc inde in nodulos subgloboso-ovoideos, brunneos, grosse 1-guttatos, 10  $\approx$  12, incrassatis formato; peritheciis numerosis, brunneis, ovoideis, valde applanatis, ambitu parum distincto, rima longitudinali dehiscentibus, 0,9-1 mm. long., 0,5-0,6 mm. lat.; contextu tenui, ex hyphis parallelis formato; ascis subglobosis, 45  $\approx$  40, octosporis; sporidiis elongatis, utrinque rotundatis, 1-septatis, ad septum constrictis, 2-guttatis, diu hyalinis, dein brunneis, 30  $\approx$  10-13.

*Hab.* in foliis vivi Calami, Mons Bavi in Tonkin Asiæ orient.

16. **Lembosia orbicularis** Pat. Journ. Bot. 1889, p. 168. — Perithe- 4368  
ciis epiphyllis, elongatis, utrinque obtusis, nigris, opacis, rima longitudinali dehiscentibus, in centro maculæ orbicularis, brunneæ, 3-4 mm. diam., radiato-fibrillosæ, 3-8-gregariis; ascis ovoideis, obtusis, membrana crassa, 50  $\approx$  20; sporidiis octonis, utrinque rotundatis, 1-septatis ad septum constrictis, brunneis, 12-15  $\approx$  5-6.

*Hab.* in foliis Dracænæ, Zanzibar Africæ orient. — Maculæ sparsæ vel in series elongatas confluentes aut crustas pelliculosas efformantes.

### Sect. 5. Phæophragmiæ.

**HYSTERIUM** Tode. — Sacc. Syll. II, p. 743.

1. **Hysterium Eucalypti** Phill. et Harkn. in Grevillea XIII, p. 23. — 4369  
Sparsum vel gregarium, 500  $\mu$ . long., minutum, ellipticum, raris-

sime striatum, erumpens, sessile; labiis clausis, tumidis; ascis clavatis; sporidiis biseriatis, oblongis, plus minusve curvatis, tri-septatis, fuscis, 16-20  $\approx$  4-6.

*Hab.* in cortice Eucalypti in California (HARKNESS).

2. **Hysterium Hariotii** Karsten Rev. Myc. 1890, p. 130. — Peritheciis gregariis v. dense confertis, basi ligno immersis, difformibus, ellipsoideis v. rotundatis, atris, opacis, vertice rima canaliculata notatis, 0,4-0-5 mm. lat.; ascis clavatis, 120  $\approx$  20; sporidiis subtristichis, fusoideo-oblongatis, rectis vel curvulis, 1-5-septatis, ad septa non v. paullulum constrictis, primitus hyalinis, dein dilute flavescens, tandem in fuliginem leviter vergentibus, 40-45  $\approx$  8-10; paraphysibus gracillimis.

*Hab.* ad lignum vetustum salicinum, circa Andegavum Galliæ (GUÉPIN). — *Hysterio lapponico* Karst. affine, at magnitudine minore aliisque notis differens.

3. **Hysterium Notarisianum** Rehm Rev. Hyst. Dub. p. 21, *Hysterium* spec. Duby in herb. — Peritheciis gregariis, primo fere omnino immersis, dein sessilibus, elongatis, obtusis, depressis, rima profunda, subtili signatis, longitudinaliter striatis, 2-2,5 mm. longis, 1 mm. lat.; ascis clavatis, 90  $\approx$  10; sporidiis octonis, distichis, fusoideis, rectis, luteo-brunneis, 2-4-6-7-cellularibus, granulosis, cellulis duabus superioribus latioribus, 15-21  $\approx$  6.

*Hab.* ad truncos quercinos in montanis in Sardinia (DE NOTARIS). — Loculus major subinde septo longitudinaliter divisus videtur.

4. **Hysterium insulare** Karst. et Har. Rev. Myc. 1890, n. 47. — Peritheciis erumpenti-superficialibus, dense gregariis, subparallelis, elongatis, utroque apice vulgo attenuatis, levibus, atris, opacis, labiis arcte conniventibus clausis, vix 1 mm. long.; sporidiis monostichis, fusoideo-oblongatis, utrinque obtusis, 3-5- sæpe 4-septatis, dilute brunneis, pellucidis, 19-22  $\approx$  6.

*Hab.* ad lignum vetustum in Sardinia (DE NOTARIS).

5. **Hysterium Adianti** Kunze in Flora 1830, p. 371. — Epiphyllum, subsinuatum, oblongo-ellipticum, subflexuosum, atrum, labiis tenuibus late hiantibus, disco albido.

*Hab.* in foliis siccis Adianti reniformis, Madera. — Subinde perithecia plura in formam triangularem conflunt. «Ignota fructificatione, species omnino dubia».

6. **Hysterium insidens** Schw., Sacc. Syll. II, p. 778 (*Hysterograph.*) Sec. Cooke Grev. XVII, p. 58 in speciminibus authenticis adsunt

sporidia 7-9-septata, 45-50  $\approx$  15, non murali-divisa, hinc non *Hysterographium*.

**TRYBLIDIELLA** Sacc. Syll. II, p. 757.

1. **Tryblidiella clavispora** (Peck) Berl. et Vogl. Add. Syll. pag. 267. <sup>4374</sup>  
*Tryblidium clavæsporium* Peck 35 Rep. St. Mus. Bot. 1884, p. 143.  
 — Peritheciis suborbicularibus, planis v. leniter convexis, marginatis, 800-1000  $\mu$ . diam., nigris, quandoque siccis v. contractis, hysteriiformibus labisque clausis; ascis clavatis v. cylindraceutis, 85-110  $\mu$ . long.; sporidiis oblongo-clavatis stipatis vel biseriatis, 4-septatis, 23-27  $\approx$  8-10, fuscis.

*Hab.* in ligno decorticato Salicis nigræ, Albany Amer. bor.

2. **Tryblidiella Steigeri** (Duby) Rehm Revis. Hyst. pag. 29, *Hysterium Steigeri* <sup>4375</sup> Duby in herb. — Peritheciis erumpentibus, primitus hysteroideis, nigris, 3 mm. longis, 1 mm. lat., dein subcurvatis, sæpe stelliformibus, 8 mm. long., 1-3 mm. lat., labiis primitus arcte conniventibus, longitudinaliter haud transverse striatulis; ascis cylindraceutis octosporis; sporidiis monostichis, oblongis, obtusis, rectis vel subcurvatis haud constrictis, 3-4-septatis, fuscis, 30  $\approx$  10-12; paraphysibus filiformibus (?) apice septatis, et subfuscis, 3-5  $\mu$ . cr.

*Hab.* ad cortices in vicinia urbis Paranagua Brasilæ.

3. **Tryblidiella Balansæ** Speg. F. Guar. II, n. 142. — Peritheciis hinc <sup>4376</sup> inde laxè subgregariis vel sparsis, per epidermidem fissam erumpentibus, crassiuscule pulvinulatis, submajusculis, 1,5-2 mm. long., 0,7-1 mm. cr. et alt., ellipticis vel subtrigonis, apicibus acutiuscule rotundatis, superne convexulis, labiis rotundatis involutisque primo conniventibus, dein latiuscule apertis, inferne modice coarctatulis, atris vel rufescenti-atris, glabris, levibus, opacis, corneo-durissimis in sicco, udis molliusculis, subelasticis, disco sordide rufescente vel subolivascete donatis; contextu subparenchymatico, extus olivaceo-atro, intus pallescente; ascis cylindraceutis, sursum rotundatis, tunica vix incrassata vestitis, deorsum breviter crasseque attenuato-pedicellatis, 200  $\approx$  15, 6-8-sporis, paraphysibus densis, apice incrassatulis, subcoalescentibus obvallatis; sporidiis rectè monostichis, ellipticis vel elliptico-obovatis, 3-septato-constrictulis, ad septum medium sæpius validius, loculo tertio supero crassiore ac rarissime, septulo altero verticali diviso, utrinque acutiuscule rotundatis, 27-30  $\approx$  12-14, rectis v. vix subcurvulis.

*Hab.* ad ramulos dejectos putrescentes in silvis densioribus pr.

Guarapí Brasilæ. — Iodi ops nulla v. vix ascorum apex perdilute cœrulescens.

4. **Tryblidiella brachyasca** Pass. Diagn. Fung. nuovi, III, n. 45. — 4377

Peritheciis sparsis v. gregariis, superficialibus, ovalibus v. difformibus, plus minus, late hiantibus, atris; ascis clavatis vel saccatis, 8-sporis, 50-63  $\approx$  12,5-15; paraphysibus æquilongis, apice colorato coalitis, obvallatis; sporidiis di-tristichis, fusiformibus strato mucoso obductis, spuriis tri-quinque septatis, diu hyalinis, tandem fuscidulis, 20  $\approx$  5-7,5.

*Hab.* in cortice trunci Coffeæ arabicæ in horto botanico parmensi Ital. bor.

**RHYTIDHYSTERIUM** Speg. — Sacc. Syll. II, p. 759.

1. **Rhytidhysterium Scortechinii** Sacc. et Berl. Misc. Myc. II, p. 7. — 4378

Peritheciis sparsis, superficialibus, oblongo-elongatis, 1,5-2  $\approx$  0,6-0,7 mm., subcoriaceis, rima lineari, latiuscula, discum rubro-fuscum revelante exaratis, labiis tumidulis, crebre et eximie transverse striato-sulcatis, nigricantibus; ascis teretiusculis, paraphysatis, 180-200  $\approx$  12-14, octosporis; sporidiis oblique monostichis, oblongis, utrinque obtusiusculis, 3-septatis, leniter constrictis, 25-27  $\approx$  12, fuligineis, demum opacis.

*Hab.* in ramis corticatis arborum, Teviot Australiæ.

2. **Rhytidhysterium guaraniticum** Speg. F. Guar. II, n. 143. — 4379

Peritheciis superficialibus, sparsis v. hinc inde aggregatis, elliptico-linearibus crassiusculis, utrinque acutiusculis 1-4 mm. long. 1 mm. lat. 0,7-1 mm. crass., rectis v. subcurvulis, rarius flexuosis, basi coarctatulis, fusco-atris, glabris, labiis obtuse rotundatis, primo conniventibus dein subrelaxatis dense minuteque striato-sulcatis (striis oculo nudo vix perspicuis) donatis, carbonaceis, duris, contextu atro indistincto; ascis cylindraceutis, apice obtusis, basi breviter attenuato-pedunculatis p. sp. 200  $\approx$  12-14 ped. 20-30  $\approx$  5-7, 8-sporis; paraphysibus densis filiformibus apice subpenicillatim coalescentibus fuscescentibusque obvallatis; sporidiis recte v. suboblique monostichis, elliptico-subfusoidis, 3-septatis, ad septum medium constrictis, utrinque obtusiuscule acutatis, 30-34  $\approx$  10-12, subopace fuligineis,

*Hab.* ad ramulos dejectos putrescentes in silvis prope Guarapí Brasilæ.

**MYTILIDION** Duby. — Sacc. Syll. II, p. 760.

1. **Mytilidion aggregatum** (D. C.) Duby. Sacc. Syll. II, p. 760. — Var. 4380

**intricatissimum** Karst. Fung. Fenn. atque Sib. in Medd. Soc. pro Faun. et Flor. fenn. II, 1884, p. 141 et Rev. Mon. p. 103. — Peritheciis superficialibus, sessilibus, elongatis, flexuosis, in cæspites rotundatos, magnos, 1-2 cm. latos, varie connatis, carbonaceis, fragilibus, subopacis, leviusculis, atris, rimula angusta.

*Hab.* in cortice radicis Abietis excelsæ in monte Hidenvaara par. Kuhmo Fennicæ (WAINIO).

2. **Mytilidion insulare** Sacc. in Barbey Fl. Sard. Comp. pag. 246. — 4381  
Peritheciis dense, parallele gregariis, mytiliformibus, acutiuscule carinatis et angustissime rimosis, atris, basi leniter coarctatis,  $\frac{3}{4}$ -1 mm. long.,  $\frac{1}{4}$  mm. crass., carbonaceis; ascis tereti-clavatis, breve stipitatis, 70-80  $\approx$  14-15, paraphysatis, 8-sporis; sporidiis distichis, tereti-fusoideis, utrinque obtusis, rectiusculis, 22-25  $\approx$  5,5-6,5, 5-6-septatis, ad septa vix constrictis, ochraceo-fuliginis.

*Hab.* in ligno superficie atrato, induratoque prope Cagliari Sardinicæ (MARCUCCI). — Affine *M. aggregato*, sed sporidiis obtusis, 5-6-septatis (nec 3-septatis) mox distinctum.

3. **Mytilidion Juniperi** E. et E. Journ. Myc. 1888, p. 57. — Perithe- 4382  
ciis gregariis, circ. 1 mm. long., utrinque ovatis, labiis conferte compressis, longitudinaliter striatis, submicantibus; ascis cylindraceis, circ. 100  $\approx$  7, copiose paraphysatis; sporidiis monostichis, oblongis, brunneis, 3-septatis, 12-15  $\approx$  4-5.

*Hab.* in cortice exteriori Juniperi virginianæ, Newfield, New Jersey Amer. bor.

### Sect. 6. Hyalophragmiæ.

**GLONIELLA** Sacc. Syll. II, p. 765.

1. **Gloniella Scortechiniana** Sacc. et Roum. in Rev. Myc. 1883, t. 41, 4383  
f. 17. — Peritheciis gregariis, sæpius parallele seriatis, elongatis, sæpius rectis, depressis, carbonaceis, nigris, vix 1 mm. longis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. latis, rima angusta dehiscentibus; ascis cylindræis, 100  $\approx$  10, breve stipitatis, paraphysatis, octosporis; sporidiis oblique 1-stichis, ellipsoideo-oblongis, utrinque rotundatis, 16-18  $\approx$  7, 3-septatis, ad septa constrictis, hyalinis.

*Hab.* in ligno putri quercino (?). — *Gloniellæ ovatæ* et *G. hyalinæ* affinis species.

2. **Gloniella strychnicola** Pat. Bull. Soc. Myc. 1888, p. 119. — Pe- 4384  
ritheciis sparsis, linearibus, elongatis, 2-3 mm. long., 1 mm. cr., rectis vel undulatis, utrinque obtusis, nigris, pruina alba vestitis,



rima longitudinali recta, labiis levibus v. longitudinaliter striatis, intus albis; ascis clavatis, obtusis, 8-sporis; paraphysibus linearibus, apice furcatis; sporidiis ovoideis, primitus continuis, dein 1-, demum 3-septatis,  $15 \approx 7$ , hyalinis.

*Hab.* in cortice Strychni Gubleri, Puerto-Perico Venezuelæ.

3. **Gloniella australis** Speg. F. Fueg. n. 296. — Peritheciis matrice dealbata innato-superficialibus, linearibus, 0,5-1 mm. long., 200  $\mu$ . lat. 200  $\mu$ . cr., parum elevatis, rectis v. vix flexuosulis, utrinque acutis, atris, glabris, levibus, opacis, carbonaceis, labiis obtusiusculis conniventibus v. apertis donatis; ascis cylindraceo-subclavatis, sursum obtuse rotundatis, crassissime tunicatis, deorsum attenuatis, breviter crasseque pedicellatis,  $60 \approx 12$ , octosporis, dense paraphysatis; sporidiis recte v. oblique distichis, elliptico-elongatis, utrinque obtusiusculis, 18-20  $\approx 6$ , rectis vel vix subinæquilateralibus, 5-septatis, non constrictis, loculo quarto supero non v. vix crassiore, hyalinis, per ætatem perdilute fuscescentibus.

*Hab.* in trunco fagineo emortuo, jam aqua vecto, in Slogget bay Fuegiæ. — Var. **minor** Speg. F. Fueg. n. 297: Peritheciis matrice dealbatis, sparsis, superficialibus, elliptico-linearibus, 500  $\approx$  200-250 atris, carbonaceis, levibus, glabris; ascis cylindraceis v. cylindraceo-obclavatis, sursum truncato-rotundatis, crasse tunicatis, deorsum subrotundatis, ac in pedicellum brevissimum crassumque attenuatis, 45-50  $\approx$  14-18, octosporis, parce paraphysatis; sporidiis subconglobatis, elliptico-elongatis, utrinque obtusiusculis, 18-20  $\approx$  4-5, 5-septatis, ad septa non constrictis, hyalinis. In trunco fagineo emortuo decorticato induratoque pr. Port S. John in Staten island Fuegiæ.

4. **Gloniella multiseptata** Speg. F. Fueg. n. 298. — Peritheciis matrice non v. vix infuscatis, erumpenti-superficialibus, sæpius aggregatis, linearibus, rectis vel flexuosis, utrinque acutiusculis, 500-1000  $\approx$  250, depressulis, atris, levibus, carbonaceis, labiis obtuse rotundatis, conniventibus vel vix apertis donatis; ascis cylindraceo-obovatis, apice late truncato-rotundatis, crassissime tunicatis, basi rotundatis, subcoarctatis, brevissime crasseque stipitatis, 50-60  $\approx$  15-18; paraphysibus hyalinis, apice coalescentibus fuscescentibusque, dense obvallatis, 8-sporis; sporidiis oblique distichis, ovato-elongatis, utrinque acutiuscule rotundatis, 22-25  $\approx$  8-10, leniter inæquilateralibus, 7-9-septatis, ad septum medium tantum leniter constrictis, hyalinis.

*Hab.* in rimis ramorum putrescentium *Pernettiæ mucronatæ* in Burnt island Fuegiæ.

5. **Gloniella pyrenaica** Rehm Rev. Hyst. Dub. p. 34. — Peritheciis <sup>4387</sup> in maculis ligni denigratis immersis, sparsis, rectis, 2-3 mm. longis,  $\frac{1}{4}$  mm. latis; ascis clavatis,  $70 \approx 15$ ; sporidiis octonis, distichis, fusiformibus, subacutis et subcurvatis, hyalinis, 4-cellularibus,  $18 \approx 5$ ; paraphysibus ramosis, fuscidulis.

*Hab.* ad lignum *Loniceræ Periclymeni*, S. Antoine de Galamus Pyren. or.

6. **Gloniella Stenogramma** (Dur. et Mont.) Rehm Rev. Hyst. Dub. p. 5, *Hysterium Stenogramma* Duby Sacc. Syll. II, p. 747. — Sporidia clavata, hyalina, recta, obtusa, 3-septata,  $10-12 \approx 4-4,5$ ; paraphyses ramosæ, ascos obovatos, sessiles, crasse tunicatos,  $36 \approx 24$  obvallantes.

7. **Gloniella syconophila** (Cooke) Berl. et Vogl. Add. Syll. pag. 269, <sup>4388</sup> *Hysterium syconophyllum* Cooke in Grevillea XIV, pag. 14. — Peritheciis gregariis, lanceolatis, rectis vel flexuosis, atris, emergentibus, rimula longitudinali, angusta notatis; ascis subclavatis, octosporis; sporidiis sublanceolatis, multinucleatis, demum quinque-septatis, hyalinis,  $36-40 \approx 8-10$ .

*Hab.* in corticibus vivis *Fici Caricæ* in Carolina inf. (RAVENEL).

8. **Gloniella Hakeæ** Penz. et Sacc. Funghi Mort. p. 8, t. IV, f. 3. — <sup>4389</sup> Peritheciis laxè gregariis, minutissimis, superficialibus, sæpius duobus v. tribus conglutinatis, ellipticis, aterrimis rima longitudinali apertis; ascis saccato-clavatis, dense congestis, brevissime et crasse stipitatis,  $25-28 \approx 9-11$ ; paraphysibus filiformibus, apice vix incrassatis, ascos æquantibus; sporidiis octonis, inasco distichis, oblongis, utrinque rotundatis, triseptatis vel 4-guttulatis, ad septa vix constrictis,  $12-14 \approx 3-3,5$ , hyalinis.

*Hab.* in foliis delapsis, putrescentibus *Hakeæ eucalyptoidis*, Mortola Liguriæ (PENZIG). — Affinis *Glon. perexiguæ*, a qua præcipue sporidiorum forma magnitudineque ascorum distinguenda.

9. **Gloniella fusispora** Sacc. et Paol. Myc. Malac. p. 15, t. III, f. 3. <sup>4390</sup> — Peritheciis superficialibus ex ovato oblongis, e membranaceo carbonaceis, convexo-applanatis, nigris, nitidulis, vix  $\frac{1}{2}$  mm. long., rima tenuissima percursis; ascis obclavatis, brevissime stipitatis, filiformi-paraphysatis, 8-sporis,  $120-130 \approx 20$ ; sporidiis distichis, fusoides, utrinque acutis, leniter curvis, initio 8-guttatis, denique 7-septatis, non v. vix constrictis, hyalinis.

*Hab.* in culmis (?) majoribus dejectis in pæninsula Malacensi (B. SCORTECHINI). — Affinis *Glon. lapponicæ*.

10. **Gloniella Holoschæni** (De Not.) Rehm in litt., *Propolis Holo-* 4391  
*schæni* De Not. in Erb. Critt. It. ser. II, n. 439. — Erumpens, atra, in sicco hysteriiformis, madore reclusa, oblongata, disco fusco; peritheciis crassiusculis, subprismaticis, oblongatis, basi nempe carinatis, margine utrinque ad angulum fere rectum inflexis; ascis clavatis, 8-sporis; paraphysibus coalescentibus, apice infuscatis; sporidiis fuscoideis, 25  $\mu$ . longis, junioribus nucleolis 2-4-fœtis, demum 4-ocularibus, oculis polaribus mediis multo minoribus, hyalino-luteolis.

*Hab.* in culmis aridis Scirpi Holoschæni, Parma Ital. bor.

11. **Gloniella pusilla** Sacc. in Mout. Not. Ascom. p. 8. — Peritheciis 4392  
ellipticis, 0,5 mm. long., epidermide tectis, membranaceis; ascis oblongo-cylindræis, sessilibus, 8-sporis, 60-75  $\approx$  12-14; sporidiis distichis, subcylindricis, hyalinis, 3-septatis, curvulis 24-26  $\approx$  4-5.

*Hab.* in calamis Junci et culmis Graminum prope Liège Belgii.

12. **Gloniella antarctica** Speg. F. Fueg. n. 299. — Maculis cinere- 4393  
scenti-pallescentibus, indeterminatis, epiphyllis; peritheciis maculis insidentibus, laxe gregariis vel sparsis, superficialibus, linearibus, utrinque obtusiusculis, 500-600  $\approx$  200  $\approx$  150, labiis obtuse rotundatis, laxe conniventibus donatis, atris, glabris, levibus, opacis; ascis obovatis, antice latissime subtruncato-rotundatis, crassissime tunicatis, deorsum subcuneatis, ac in stipitem brevissimum crassumque productis, 32-35  $\approx$  15, octosporis, dense paraphysatis; sporidiis inordinate constipatis, ellipticis vel subfuscoideis, utrinque plus minus acutatis, 14-15  $\approx$  5-7, crassissime tunicatis, 6-8-blastis, hyalinis.

*Hab.* vulgata ad folia emortua Grammitis magellanicæ in Staten island et in Fuegia Amer. austr. — Species habitu ac sporidiorum fabrica lichenina, thallus tamen deficiens ac iodi ops nulla.

13. **Gloniella filicina** (Lib.) Mout. Not. Ascom. p. 8. — Var. **Pteridis** 4394  
Mout. l. c. — Peritheciis gregariis, linearibus, rectis,  $\frac{1}{4}$ - $\frac{2}{3}$  mm. long., circ. 100  $\mu$ . cr.; ascis ovoideis, breviter crasseque pedicellatis, 20-30  $\approx$  8-10; paraphysibus hyalinis, filiformibus æquilongis cinctis; sporidiis polystichis, fuscoideis, subcurvulis, 3-septatis, 12-15  $\approx$  2,5-3.

*Hab.* in caulibus emortuis Pteridis aquilinæ in Belgio. — Ob sporidia 3-septata ab *Aulographo* seponenda species.

14. **Gloniella byssiseda** (Crouan) Sacc. Syll. II, pag. 767, Malbr. in Bull. Soc. Myc. 1888, p. XXXIII. — Perithecia ovoideo-subsphærica, conferta, depressa, mycelio filamentoso brunneo insidentia; asci cylindraceuti,  $95 \approx 9-10$ ; sporidia disticha, 1-3-septata, 4-guttata, subhyalina, medio subconstricta,  $13-20 \approx 5-6$ . In ramis Coryli, Normandia.
15. **Gloniella Moliniæ** (De Not.) Sacc. Syll. II, p. 768. — Sec. Rehm Ascom. n. 868, sunt perithecia viridula; asci  $75-90 \approx 12-14$ , octospori, paraphysati, fusoides-clavati; sporidia oblongo-clavulata, demum 3-septata,  $18-27 \approx 4-4,5$ , hyalina.

**PSEUDOGRAPHIS** Nyl. — Syll. II, p. 769.

1. **Pseudographis buxicola** Passer. Diagn. I, n. 74. — Peritheciis per epidermidem emergentibus, sessilibus, atris, rectis v. curvis, labiis distantibus, tenuibus, integris v. eroso-crenulatis, disco atro, anhistis; ascis clavatis, basi attenuato-stipitatis; paraphysibus filiformibus obvallatis,  $63-75 \approx 12$ ; sporidiis distichis, ovali-oblongis, subfusiformibus, 5-pluriseptatis, hyalinis,  $22-25 \approx 7,5-8$ .

*Hab.* in cortice viridulo ramulorum Buxi sempervirentis, Vigheffio pr. Parmam Ital. bor.

**DICHÆNA** Fr. — Syll. II, p. 771.

1. **Dichæna faginea** (Pers.) Fr. — Syll. II, p. 771. — Var. **Capreæ** Rehm Disc. pag. 51. — Peritheciis in maculas rotundas, pallidas gregariis, immersis, per epidermidem erumpentibus, rotundis, dein elongatis, obtusis, membranaceis, nigris, rugosis,  $\frac{1}{2}$  mm. long.,  $\frac{1}{4}-\frac{1}{3}$  mm. lat., ostiolo primo rotundo, dein elongato, marginibus inæqualibus, sejunctis; ascis fusoides, late insidentibus,  $90-95 \approx 30-35$ , octosporis; sporidiis elongato-ellipsoideis, obtusis, continuis, primo late 1-guttatis, dein minute granulosi, hyalinis,  $27-30 \approx 12-14$ ; paraphysibus filiformibus,  $2,5 \mu$ . cr., supra brunneolis.

*Hab.* in cortice Salicis Capreæ vivæ in Austria infer. — Sporidia in asco demum tantum 3-4 matura. «Si sporidia jugiter continua, haud *Dichænae* species».

Sect. 7. Hyalodictyæ.

**GLONIOPSIS** De Not. — Sacc. Syll. II, p. 773.

1. **Gloniopsis biformis** (Fr.) Sacc. Syll. II, p. 773. — Var. **provecta** Karst. in Hedw. 1884, p. 19 et Rev. Mon. p. 100. — A typo dif-

fert sporidiis majoribus, nempe 20-24  $\approx$  9-10, ad septum medium non constrictis ascisque oblongatis, crassioribus, 90  $\approx$  27.

*Hab.* in ligno denudato *Quercus* in regione Aboënsi Fenniaë. 4398

2. **Gloniopsis Lonicerae** (Phill. et Harkn.) Berl. et Vogl. Add. Syll. p. 270, *Hysterium Lonicerae* Phill. et Harkn. in *Grevillea* XIII, p. 23. — Sparsa v. gregaria, elliptica v. oblongo-lanceolata, 500-1200  $\mu$ . long., parallela, prominula, striata v. levis, labiis prominulis, maturitate apertis; ascis cylindraceo-clavatis, octosporis; sporidiis ellipticis v. subpiriformibus, muriformibus, hyalinis, plerumque gelatinâ involutis, 20-30  $\approx$  7-11; paraphysibus indistinctis.

*Hab.* in ramis decorticatis *Lonicerae* in California (HARKNESS).

3. **Gloniopsis australis** (Duby) Sacc. Syll. II, p. 774. — \***G. vinealis** 4399 Sacc. et Br. *Miscell. Myc.* II, p. 23, n. 101. — Peritheciis elongatis, utrinque rotundatis, 1-1 $\frac{1}{4}$  mm., atris, rima latiuscula exaratis; ascis clavatis, breve stipitatis, paraphysatis, 68-76  $\approx$  24-28; sporidiis distichis, rectis curvulisve, ovato-oblongis, 24-28  $\approx$  10, 5-septato-muriformibus, hyalinis.

*Hab.* in ligno quercino indurato, Troyes Galliaë (BRIARD).

4. **Gloniopsis insignis** (Cooke et Harkn.) Berl. et Vogl. Add. Syll. 4400 p. 270, *Hysterographium insigne* Cooke et Harkness in *Grevillea* XIV, p. 10. — Peritheciis gregariis, erumpentibus, ovalibus v. ellipticis,  $\frac{1}{2}$ -1 mm. long., atris, subnitidis, labiis arcte conniventibus; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque acuminatis, medio constrictis, 5-7-septatis, muriformibus, hyalinis, 20  $\approx$  10.

*Hab.* in ligno *Acaciae* in California (HARKNESS).

5. **Gloniopsis caespitosa** (C. et M.) Sacc., *Tryblidium caespitosum* 4401 Cooke et Mass. in *Grev.* XVI, p. 4. — Cæspitibus sparsis, erumpentibus, atris, 2-4 mm. diam.; cupulis vix 1 mm. diam., hemisphaericis, diu clausis, demum hiantibus, coriaceis; ascis primitus subglobosis, 8-sporis; sporidiis fusiformibus, utrinque rotundatis, quinqueseptatis, hyalinis, demum turgidis, subellipticis, muriformidivisis, 40-45  $\approx$  15-18.

*Hab.* in cortice, Berwik, Victoria Australiaë (F. CAMPBELL). — «An *Blitrydii* species?»

6. **Gloniopsis roburnea** Passer. *Diagn. Fungi novi*, I, n. 75. — Pe- 4402 ritheciis superficialibus, gregariis, lineari-elongatis, rectis vel flexuosis, atris, levibus, labiis rotundatis rimam angustam, linearem relinquentibus; ascis oblongo-clavatis, aparaphysatis, 60-75  $\approx$  10-12,

8-sporis; sporidiis subdistichis, oblongo-ovalibus, 3-septatis, loculis septo longitudinali divisis, hyalinis,  $12,5 \approx 5$ .

*Hab.* in ligno querneo, Vigheffio pr. Parmam Ital. bor.

7. **Gloniopsis Cisti** Rehm Rev. Hyst. Dub. p. 13, *Hysterographium* 4403  
Rehm Disc. p. 18. — Peritheciis subsessilibus, elongatis, subobtusis, rectis vel subcurvatis, atris, medio subtiliter rimosis,  $1-2\frac{1}{2}$  mm. longis,  $\frac{1}{2}$  mm. lat.; ascis clavatis, crassis, octosporis,  $90 \approx 15$ ; sporidiis distichis, ellipsoideis, medio subconstrictis, transverse 5-septatis, cellulis mediis, imprimis superioris sporidii partis, simpliciter verticaliter divisis, hyalinis,  $18-20 \approx 6-7$ ; paraphysibus ramosis, superne fuscis.

*Hab.* ad truncos emortuos Cisti ladaniferi prope Olten Helv.

8. **Gloniopsis levantica** Rehm Rev. Hyst. Dub. p. 6, *Hysterium* sp. 4404  
Duby in herb. — Peritheciis.....; ascis clavatis, crassis,  $90 \approx 18$ ; sporidiis octonis, distichis, fusiformibus septemseptatis, septulo longitudinali divisis, hyalinis,  $21-24 \approx 9$ ; paraphysibus tenuibus, sursum ramosis.

*Hab.* in sarmentis Rubi, Ile du Levant (Hyeres) (MUELLER).

9. **Gloniopsis Lantanæ** Fautrey in Rev. myc. 1889, p. 152. — Peri- 4405  
theeciis e ligni rimis seriatim erumpentibus, elongatis, rectis, nigris, labiis obtusis, confertis dein sejunctis; ascis cylindraceutis, breviter pedicellatis; sporidiis oblique monostichis, transverse 5-septatis, longitudinaliter 1-septatis, medio constrictis, dilute flavis,  $24-28 \approx 8-10$ .

*Hab.* in ramulis vivis Viburni Lantanæ, Noidan, Côte-d'Or Galliæ.

10. **Gloniopsis Verbasci** (Duby) Rehm Rev. Hyst. Dub. pag. 11, *Hy-* 4406  
*sterium Verbasci* Duby in Herb. — Peritheciis elongatis, 1-3 mm. long.,  $\frac{1}{2}-\frac{3}{4}$  mm. lat., acutis, non striatis; hypothecio brunneo; ascis clavatis, crassiusculis,  $70 \approx 15-10$ ; sporidiis 6-8, distichis, elongato-ellipsoideis, obtusis, rectis vel parum curvatis, transverse primo 3- dein 7-septatis, loculis 1-2-longitudinaliter divisis, hyalinis,  $15-17 \approx 7-8$ ; paraphysibus filamentosis, 3  $\mu$ . crassis, epithecium brunneum formantibus, sursum incrassatulis.

*Hab.* in caule Verbasci in . . . , . . . (locus non indicatus).

**HYSTEROPSIS** Rehm Disc. pag. 36. — Perithecia innata, convexa, elongata, simplicia, supra nigricantia, membranacea, rima longitudinali tenui percursa. Asci clavati, 8-spori. Sporidia ovato-clavata,

transverse et longitudinaliter septata, hyalina, mucro obvoluta. Paraphyses ramosæ.

1. **Hysteropsis culmigena** Rehm l. c. — Peritheciis sparsis, matrice 4407  
decolorata innatis, subconvexo-prominulis, linearibus, obtusis, rectis, simplicibus, supra atro-viridibus, 1-1,5 mm. long., usque 0,5 mm. lat., ostiolo tenuiter rimoso, marginibus demum albidis, conniventibus, acutis; ascis clavatis, membrana crassa, 8-sporis, 90-100  $\approx$  18-20; sporidiis distichis, elongato-clavatis vel ovoideis, obtusis, transverse 12-18-ocularibus, loculis longitudinaliter 1-2-septatis, hyalinis, mucro late obvolutis, 18-27  $\approx$  7-8; paraphysibus ramosis.  
*Hab.* in culmis siccis Calamagrostidis, Franken Germaniæ.  
— Habitus *Lophodermii arundinacei*. Est *Gloniopsis* innata.

Sect. 8. Phæodictyæ.

**HYSTEROGRAPHIUM** Corda — Sacc. Syll. II, p. 776.

1. **Hysterographium prominens** (Phill. et Harkn.) Berl. et Vogl. Add. 4408  
Syll. p. 270, *Hysterium prominens* Phill. et Harkn. New Calif. Fungi pag. 5. — Sparsum, prominulum, oblongo-ellipticum, leve, raro striatum; ascis late clavatis; sporidiis fusiformibus vel oblongo-fusoideis, curvis vel rectis, uniseptatis, ad septum constrictis, muriformibus, brunneis, 30-48  $\approx$  7-10.  
*Hab.* in ramis Salicis lasiolepidis in California.
2. **Hysterographium Ceanothi** (Ph. et Hark.) Berl. et Vogl. Add. Syll. 4409  
p. 270, *Hysterium Ceanothi* Phill. et Hark. in Grev. XIII. p. 83. — Sparsum, sessile vel subimmersum, ovale, dein lanceolatum, leve, glabrum, nitidum, atrum; labiis prominulis, arcte conniventibus; ascis late clavatis, tetrasporis; sporidiis muriformibus, oblongo-lanceolatis, utrinque obtusis, fuscis, 40  $\approx$  14-15; paraphysibus adhærentibus.  
*Hab.* in caulibus Ceanothi in California (HARKNESS). — Sæpe sporidia mucro obvoluta sunt.
3. **Hysterographium affine** Pass. in Martelli Flor. Bog. pag. 147. — 4410  
Fructificatione *Hysterographio gregario* simile, sed peritheciis sparsis, brevibus, subglobosis; sporidiis brevius ovoideis, 20  $\approx$  7,5.  
*Hab.* in corticibus, Keren Abyssiniæ (BECCARI).
4. **Hysterographium pachyascum** Berl. Fungi moric. Fasc. II, tab. 47, 4411  
fig. 1-7. — Peritheciis subgregariis, atris, carbonaceis, linearibus vel demum subinde patellæformibus, 1-1½ mm. longis, ¼ mm. la-

penti-superficialibus, linearibus, 1-2 mm. long., 250-300  $\mu$ . cr. et alt., rectis v. flexuosis, utrinque obtusiusculis ac sæpe longitudinaliter confluentibus, rima primo vix perspicua, dein sublatiuscula, longitudinali percursis, labiis obtusiuscule rotundatis donatis, carbonaceis, atro-opacis, glabris, levibus, contextu indistincto; ascis obclavulatis, antice subtruncato-rotundatis crasseque tunicatis, deorsum brevissime crasseque pedicellatis, 65-75  $\approx$  12-13, octosporis, aparaphysatis; sporidiis recte distichis, rarius subtristichis, obovatis vel clavulatis, utrinque obtusiusculis, 20-25  $\times$  7-8, 3-5-septato-constrictulis, loculis 2 centralibus sæpius majoribus, septis 1 v. 2 verticalibus (rarius 2 etiam transversis tenuioribus) divisis, pallide fuligineo-olivaceis.

*Hab.* in truncis palisque decorticatis putrescentibus in silvis pr. Guarapí Brasilæ. — Species pulcherrima, habitu *Glonium lineare* perfecte æmulans.

12. **Hysterographium Pumilionis** Rehm Disc. pag. 21. — Peritheciis 4419  
sparsis, sessilibus, elongatis, raro ellipsoideis, sæpius rectis, omnino obtusis et incurvis dein subplanis, striis longitudinalibus numerosissimis, parallelis, tenuibus percursis, ostiolo longitudinali, lineari, vix perspicuo, nigris, cavis, 1-1,5 mm. long., 1 mm. cr.; ascis cylindræis, 8-sporis, circ. 120  $\approx$  10; sporidiis monostichis, elongatis v. subclavatis, obtusissimis, medio plus minus constrictis, brunneis, transverse 4-, sæpius 6-ocularibus, loculis mediis longitudinaliter 1-septatis, 18-24  $\approx$  7-8; paraphysibus supra ramosis.

*Hab.* in ramis siccis Pini Pumilionis in Alpibus Algäu et Ortler. — *H. Rousselii* affinis.

13. **Hysterographium punctiforme** Pat. Bull. Soc. Myc. 1838, p. 120. — 4420  
Peritheciis nigris, difformibus, rugosis, 0,5-1 mm. long., aliis elongatis, aliis rotundis, minute gregariis, longitudinaliter rimosis; ascis clavatis, apice obtusis, 60-70  $\approx$  12-14, octosporis; paraphysibus parum distinctis; sporidiis ovoideis gibberulis, brunneis, septato-muriformibus, transverse 3-septatis, 11-15  $\approx$  6-7.

*Hab.* in cortice arborum (Leguminosarum), Puerto-Zamuro Venezuelæ.

14. **Hysterographium djakovense** Schulz. Bot. Centr. 1883, XV, p. 4. 4421  
— Peritheciis subimmersis, elongatis, rectis aut flexuosis, utrinque attenuatis, subparallelis, 0,5-1 mm. long., in medio 0,2-0,3 mm. lat., rima longitudinali dehiscentibus, nigris; ascis cylindræis, substipitatis, 113  $\approx$  11-14; paraphysibus filiformibus, nec cohærentibus; sporidiis octonis, subobovatis, transverse 5-septatis, longitu-



datis, oblongatis, lineari-elongatis, rectis vel flexuosis, subdepressis, atris, levibus, rarissime substriatis, labiis tumidis, depressulis, rimam sat profundam relinquentibus, 0,2-1 mm. long.; sporidiis oblongatis, utrinque obtusis, rectis v. inæquilateralibus, 5- raro 3- v. 7-septatis, loculo uno alterove septulo longitudinali diviso, ad septa non v. lenissime constrictis, primo melleis, dein fuligineis, 15-24  $\approx$  6-9.

*Hab.* ad corticem crassiorem arborum frondosarum ad Rio de Janeiro Brasiliæ. — *Hysterographio australi* affine videtur.

9. **Hysterographium magellanicum** Speg. F. Fueg. n. 301. — Peritheciis 4416  
 laxè inordinateque aggregatis, scaphoideis, majusculis, 0,5-2 mm. long., 0,3-0,5 mm. cr., utrinque acutiusculis, basi coarctatulis, superne rotundatis, labiis subacute ac arcte conniventibus (rima tandem parum perspicua) donatis, glabris, levibus, atris, carbonaceis; ascis cylindræis, subtenui-tunicatis sæpeque subtorulosis, antice rotundatis, postice breviuscule attenuato-pedicellatis, 160-180  $\approx$  25, dense paraphysatis, 8-sporis; sporidiis oblique monostichis v. recte distichis, elliptico-ovoideis, medium tantum constrictis, sæpius obtusissimis, 50-55  $\approx$  18, primo pellucidis, horizontaliter 11-septatis, loculis septis 1-3 verticalibus divisis, locellis guttulatis dein opacis, atro-fuligineis.

*Hab.* ad corticem Fagorum viventium non rara hinc inde in silvis per Fuegiam Amer. austr. — Speciem simillimam nisi identicam etiam in Cabo negro (Patagonia) invenit cl. SPEGAZZINI.

10. **Hysterographium fuegianum** Speg. F. Fueg. n. 300. — Peritheciis 4417  
 plus minus dense gregariis, parallelis, superficialibus, elliptico-linearibus, 1 mm. long., 300-350  $\mu$ . lat., 450-500  $\mu$ . cr., elevatis, utrinque obtusiusculis, non vel vix subcoarctatulis, atris, glabris, levibus, labiis obtuse rotundatis, conniventibus ornatis; ascis cylindræo-subclavatis, ubique crasse tunicatis, antice obtuse rotundatis, postice in pedicellum brevissimum crassumque desinentibus, 100-110  $\approx$  20, octosporis, paraphysibus densis, subcoalescentibus obvallatis; sporidiis distichis, elliptico-biconicis, utrinque acute rotundatis, 38-45  $\approx$  12-15, horizontaliter 10-11-septatis, ad septa lenissime (ad medium sæpe validius) constrictulis, loculis septis 1-3 verticalibus alternatim divisis, subopace fuligineis.

*Hab.* ad ramulos emortuos decorticatos Escalloniæ serratæ pr. Penguin rookery in Staten island Fuegiæ.

11. **Hysterographium guaraniticum** Speg. F. Guar. II, n. 144. — Peritheciis 4418  
 ligno denudato infuscatoque densissime constipatis, erum-

tis (valvis clausis); ascis late clavatis, sursum rotundatis, basi attenuatis breviterque stipitatis, paraphysibus densis, sursum brunneolis cinctis, 60-70  $\approx$  15-20, octosporis; sporidiis subtristichis vel distichis, oblongo-ovoideis, primum cribrose guttulatis, hyalinis, dein 6-7-septatis, loculis septulo longitudinali divisis, fuscis, 25  $\approx$  10.

*Hab.* in ligno semiputri Mori albæ, Vaucluse Galliæ, sociâ *Zignoellâ Mori* (FABRE). — Habitus quasi *Lecanidii atrati* sed structura diversa.

5. **Hysterographium Beccarianum** Pass. in Martelli Flor. Bog. p. 146. 4412

— Peritheciis gregariis, fragilibus, superficialibus, atris, opacis, rectis vel raro curvis, labiis tumidulis, inflexis, conniventibus, levibus; ascis oblongo-clavatis, inferne attenuatis; paraphysibus filiformibus obvallatis, 100-125  $\approx$  10-12, octosporis; sporidiis monostichis, ellipticis vel ovatis, primo triseptatis, melleis, dein septemseptatis, muriformibus, fuscis, 17,5  $\approx$  7-8, ad septa non constrictis.

*Hab.* in corticibus vetustis, Keren Abyssiniæ (BECCARI).

6. **Hysterographium gregarium** Pass. in Martelli Flor. Bog. p. 146. 4413

Peritheciis oblongis, superficialibus, atris, levibus in greges coadunatis, rectis vel raro flexuosis, labiis conniventibus; ascis paraphysatis, oblongo-clavatis, basi longe attenuatis, octosporis, 75-95  $\approx$  12-15; sporidiis distichis, linguæformibus, primo ex hyalino luteolis, triseptatis, dein fuscis, 8-9-septatis, adiectis septis longitudinalibus plus minus obscuris sed satis perspicuis.

*Hab.* ad cortices vetustos, Keren Abyssiniæ (BECCARI).

7. **Hysterographium hiascens** Rehm, Sacc. Syll. II, p. 680 — \* **H. ma-** 4414

**crum** Sacc. et Berl. Misc. Myc. II, p. 7. — Peritheciis elongato-linearibus, rectiusculis, parallelis, 1-1,5  $\approx$  0,3 mm., atris, rima angusta incisus, labiis macris; ascis clavatis, breve stipitatis, paraphysatis, 90-100  $\approx$  25-30, octosporis; sporidiis subdistichis, oblongo-subfusoideis, 25-30  $\approx$  8-10, 6-8-septato-muriformibus, medio constrictis, olivaceis.

*Hab.* in lignis putridis, Logan Australiæ. — Var. **depressum** Winter in Rev. Myc. 1886, pag. 212: Peritheciis superficialibus, dense stipatis, ellipsoideis, rarius oblongis, plus minusve depressis, plerumque rectis, labiis tumidulis, conniventibus, striatulis, opacis, atris 0,5 mm. longis; sporidiis interdum usque 38  $\mu$ . elongatis, 7-10-septatis. Ad lignum putridum prope Melbourne Australiæ (READER).

8. **Hysterographium polymorphum** Karst. Hedw. 1889. — Peritheciis 4415

erumpenti-superficialibus, gregariis, subinde confluentibus, rotun-

dinaliter 1-3-septatis, nec guttulatatis, medio parum constrictis, 18-20  $\approx$  8, fuscis.

*Hab.* ad ligna arida Fraxini, Djakovar Slavoniæ. — Ab *H. Fraxini* omnino diversum.

15. **Hysterographium Anonæ** Celott. Mic. Montp. p. 37, f. 2. — Pe. 4422  
 peritheciis subimmersis, sparsis vel gregariis, ellipticis, 0,8-1 mm. long., 0,4-0,5 mm. cr., nigris, rugosis, labiis medio tumidulis; ascis cylindraceo-clavatis, 8-sporis, 120-140  $\approx$  25-30, paraphysatis; sporidiis ellipticis, muriformibus, medio vix constrictis, obtusis, 40-45  $\approx$  18-20, fuligineis.

*Hab.* in ramis Anonæ trilobæ, Montpellier Galliæ.

16. **Hysterographium Ruborum** Cooke in Rehm Ascom. n. 918, *H.* 4423  
*viticolum* var. *Ruborum* Cooke, Rehm Ascom. n. 364, Syll. II, p. 782. — A typico *H. viticolo* differt sporidiis multo minoribus, ad summum 5-septatis.

*Hab.* in sarmentis Ruborum in America boreali — f. **Vitis** Rehm Ascom. n. 918: Ascis clavatis, supra rotundatis, membrana crassa, 90  $\approx$  18; sporidiis octonis, distichis, clavatis, primo 1-septatis, ad septum subconstrictis dein 5-septatis, loculis 3 superis simul et 1-2 tantum inferis septo longitudinali percursis, flavo-brunneis, 18-20  $\approx$  7-8; paraphysibus supra ramosis. In cortice Vitis, Newfield N. J. Amer. bor. (ELLIS).

17. **Hysterographium Rehmianum** Berl. et Vogl. Add. Syll. p. 432, 4424  
*Hysterographium* spec. Rehm Rev. Hyst. Dub. p. 22. — Peritheciis sparsis, sessilibus, ellipsoideis, demum superficialibus, rima longitudinali apertis, subcompressis, obtusiusculis, 2 mm. long., 1 mm. lat.; ascis crassis, clavatis, 150  $\approx$  30, octosporis; sporidiis distichis, ovato-ellipsoideis, transverse 8-10-septatis, longitudinaliter 3-4-septatis, luteis vel brunneis, 30-36  $\approx$  15; paraphysibus ramosis.

*Hab.* in ramulis..... S. Antoine de Galamus Pyr. or.

### Sect. 9. Scolecosporæ.

**HYPODERMA** DC. — Sacc. Syll. II, p. 784.

1. **Hypoderma Oleæ** Thüm Pilz. d. Oelb. pag. 34. — Peritheciis in 4425  
 foliorum pag. superiore subgregariis, solitariis vel interdum confluentibus, rotundis vel ovatis, nigrescentibus, labiis depressis; ascis clavatis, breve stipitatis, 75-95  $\approx$  10-12, octosporis; sporidiis fusi-formibus, curvulis, nucleatis, hyalinis, 20-24  $\approx$  3-4.

*Hab.* in foliis emortuis Oleæ europææ in Austria. — *Hypodermati Hederæ* proximum.

2. **Hypoderma Eucalypti** Cooke et Harkn. in Grevillea XIII, p. 21. 4426  
— Epiphyllum, gregarium; peritheciis lanceolatis linearibusque, erumpentibus, atris, opacis, labiis, rotundatis, laxe conniventibus; ascis clavatis; sporidiis inordinatis, elongato-fusiformibus, continuis, hyalinis,  $30 \approx 3$ .

*Hab.* in foliis Eucalypti in California (HARKNESS).

3. **Hypoderma Heteromelis** Phill. et Harkn. in Grevillea XIII, p. 23. 4427  
— Gregarium, oblongum; peritheciis rectis vel curvulis, applanatis vel leniter elevatis, 400-800  $\mu$ . long.; ascis cylindræis; sporidiis filiformibus,  $65 \approx 2$ ; paraphysibus filiformibus.

*Hab.* in foliis Heteromelis arbutifoliæ in California (HARKNESS).

4. **Hypoderma brachysporum** Speg. F. Fueg. n. 302. — Maculis nullis; 4428  
peritheciis amphigenis, hinc inde laxè inordinateque aggregatis, innato-superficialibus ellipticis, utrinque obtusiusculis, 1 mm. long., 0,5 mm. lat., atris, glabris, levibus, coriaceo-subcarbonaceis, contextu indistincto, rimula latiuscule hiante percursis, labiis acutis intus fuscescentibus donatis; ascis clavatis, sursum attenuatis, apice truncatis, deorsum longe attenuato-pedicellatis, p. sp. 40  $\approx$  10, ped. 30-40  $\approx$  3, octosporis, paraphysibus filiformibus, paucis, longioribus, apice flexuosis vel subcirrhatis obvallatis; sporidiis cylindræis, utrinque obtusiuscule rotundatis, 12-13  $\approx$  3, curvulis, continuis, hyalinis.

*Hab.* ad folia dejecta putrescentia Berberidis ilicifoliæ in Staten island et in Fuegia Amer. austr.

#### LOPHODERMIIUM Chev. — Sacc. Syll. II, p. 791.

1. **Lophodermium leptothecium** Speg. Fungi Guar. Pug. I, n. 307. 4429  
— Maculis nullis v. indeterminatis fuscescentibus, centro pallidioribus v. albicantibus; peritheciis epiphyllis, maculis laxè insidentibus, linearibus, ellipticis vel elliptico-elongatis, rarius trigonis, rectis v. leniter flexuosis, 450-600  $\approx$  250-300, adnato-superficialibus, atris levibus, subnitentibus, glabris, longitudinaliter rimosis, labiis acute conniventibus, tenuibus, integris, membranaceo-coriacellis, contextu atro, subopaco, peripherico crasse, centrali minute parenchymatico; ascis clavato-filiformibus, sursum obtuse acutatis crassiusculeque tunicatis, deorsum longe leniterque attenuatis, 100  $\approx$  4, 8-sporis, paraphysibus filiformibus, simplicibus nonnihil lon-

gioribus, apice rectis v. flexuosis, non vel vix incrassato-erosulis obvallatis; sporidiis filiformibus, rectis v. leniter flexuosis, utrinque subattenuatis, obtusiusculis,  $70-75 \approx 0,7-0,8$ , crasse multiguttulatis, hyalinis.

*Hab.* ad folia dejecta, exsiccata vel putrescentia Laurineæ cujusdam in silvis prope Guarapí Bras. — Species *Loph. maculari* affinis, sed certe satis diversa.

2. **Lophodermium brachysporum** Rostr. in Tidsskrift for Skorbrug 4430 1883, p. 282, Tub. Beitr. Baumkr. p. 30, t. IV, f. 4-14. — Peritheciis generis, epiphyllis; ascis crasse cylindraceutis, brevi stipitatis, apice rotundatis,  $120 \approx 20-25$ , octosporis; paraphysibus bacillaribus, apice incurvato-clavulatis; sporidiis oblique monostichis, cylindraceutis utrinque obtusulis, medio denique septatis, hyalinis strato mucoso obvolutis,  $20 \approx 4$  (sine strato),  $28-30 \approx 9-10$  (cum strato).

*Hab.* in foliis ex ramulis junioribus enatis Pini Strobi in silvis Daniæ et Baviaræ. — Folia fungillo correpta languescunt et paullisper decidunt.

3. **Lophodermium clavuligerum** Speg. F. Fueg. n. 305. — Maculis nullis 4431 sed toto folio pallescente; peritheciis sparsis, amphigenis, sæpius tamen hypophyllis, e discoideo subellipticis,  $400-600 \approx 300-500$ , atris, glabris, opacis, innato-prominulis, in sicco subcollabascentibus, coriacellis, contextu indistincto, rimula minutissima vix perspicua donatis; ascis subclavato-cylindraceutis sursum acutiuscule rotundatis, deorsum attenuatis,  $100-110 \approx 7$ , ac in pedicellum brevem crassumque productis, tenuiter tunicatis, 8-sporis, paraphysibus dilute chlorinis, apice clavulatis obvallatis; sporidiis fusoideo-filiformibus,  $1,5 \mu$ . cr., 5-9-septatis, non constrictis, ascorum longitudine, fasciculatis, utrinque acutiusculis granuloso-farctis, hyalinis.

*Hab.* ad folia dejecta emortua Pernettieæ mucronatæ in pratis Staten island Fuegiæ Amer. austr.

4. **Lophodermium oxyascum** Speg. F. Fueg. n. 308. — Maculis nullis; 4432 peritheciis sparsis, innatis, vix prominulis, ellipticis,  $600-1000 \approx 300-400$ , utrinque acutiusculis, atris, glabris, subnitentibus, rimose dehiscentibus, coriacellis; ascis cylindraceutis, apice longiuscule acutissimeque conicis, deorsum breviter attenuatis ac pedicello brevissimo crassoque suffultis,  $45-60 \approx 5$ , 8-sporis, paraphysibus filiformibus, tenuissimis ubique rectis ac cylindraceutis obvallatis; sporidiis fasciculatis, ascorum longitudine, tenuissimis,  $0,5-0,8 \mu$ . cr., utrinque acutis, granuloso-farctis, hyalinis.

*Hab.* non rarum in foliis Luzulæ Poæ, Uncinæ ac Festucarum, hinc inde in Staten island et Fuegia Amer. austr.

5. **Lophodermium Dracænæ** Phill. et Harkn. in Grev. XIII, tab. 3. — 4433  
 Sparsum, ellipticum vel ovatum, 300-800  $\mu$ . long., superficiale, deciduum, glabrum, atrum, labiis adhærentibus, demum apertis, hiantibusque; ascis cylindræis, octosporis; sporidiis filiformibus, hyalinis, 70-85  $\approx$  1-2; paraphysibus filiformibus, ad apicem dichotomis.

*Hab.* in Dracæna in California (HARKNESS).

6. **Lophodermium fuegianum** Speg. F. Fueg. n. 306. — Maculis pallescentibus, indeterminatis; peritheciis laxè gregariis, ellipticis, utrinque obtusis, non vel vix prominulis, 500-700  $\approx$  200, glabris, atris, nitentibus, contextu indistincto, rimose dehiscentibus; ascis cylindræis, antice rotundatis, non vel vix crassiuscule tunicatis ac l-foveolatis, postice attenuatis ac in stipitem breviusculum crassumque desinentibus, 60-65  $\approx$  5, 8-sporis, paraphysibus flexuosis, exilissimis, apice non incrassatis ac subrectis obvallatis; sporidiis fasciculatis, linearibus, superne obtusis, inferne acutis, 40  $\approx$  1,5, septulatis, hyalinis.

*Hab.* in culmis putrescentibus Rostkoviæ grandifloræ in Agaia Fuegiæ Amer. austr. — A *Loph. antarctico* Speg. longe abhorrens.

7. **Lophodermium antarcticum** Speg. F. Fueg. n. 304. — Maculis pallescentibus, latis, indeterminatis; peritheciis ex orbiculari ellipticis, 700-900  $\approx$  500-700, innato-prominulis, atris, levibus, nitentibus, coriacellis, contextu indistincto, rima brevi strictissime dehiscentibus vel per ætatem frustulatim deciduis; ascis cylindræis, sursum leniter attenuatis, apice truncatis, (rarius subrotundatis), deorsum breviter cuneatis ac pedicello brevissimo crassoque suffultis, 66-80  $\approx$  8-10, 8-sporis, paraphysibus filiformibus, apice rectis, non incrassatis obvallatis; sporidiis fasciculatis, filiformibus, 1  $\mu$ . cr., ascorum longitudine, granulosis, hyalinis.

*Hab.* ad culmos emortuos putrescentes Rostkoviæ grandifloræ in Staten island Fuegiæ Amer. astr. — An huc *Loph. breve* (Berk.) De Not.?

**LOPHIUM** Fr. — Syll. II, p. 799.

1. **Lophium? perexiguum** Speg. F. Fueg. n. 309. — Peritheciis in matrice latissime dealbata laxè sparsis, subparallelis, immersis, linearibus, 500-1000  $\approx$  120-150, vix labiis acutis, conniventibus non v. modice apertis, atris, carbonaceis, exsertis, donatis; ascis cylindra-

ceis, apice rotundatis, crassissime tunicatis, deorsum attenuatis, breviter pedicellatis, 80-90  $\approx$  2-3, paraphysibus densiusculis filiformibus, apice rectis v. subuncinatis non incrassatis obvallatis, 8-sporis; sporidiis filiformibus, fasciculatis, ascorum longitudine, subimperspicue guttulatis, hyalinis.

*Hab.* in trunco fagineo vetusto, jam aqua vecto, in Slogget bay Fuegiæ Amer. austr.

**SPOROMEGA** Corda. — Syll. II, p. 811.

1. **Sporomega Empetri** Rostr. Fungi Groenl. p. 543. — Peritheciis 4437  
epiphyllis, fusco-nigris, elongatis, rectis v. flexuosis, crassiusculis, rima longitudinali dehiscentibus, labiis demum distantibus; ascis clavatis, apicem versus attenuatis, 80-90  $\approx$  18; sporidiis octonis, filiformibus, hyalinis, simplicibus, basi conjunctis, 60-64  $\approx$  2.

*Hab.* in foliis siccis Empetri nigri, Groenlandia.

**COLPOMA** Wallr. — Syll. II, p. 803.

1. **Colpoma crispum** (Pers.) Sacc. *Clithris* Rehm Disc. p. 103. — Pe- 4438  
ritheciis plerumque gregariis, cortice tenui, nigro tectis, ligno nigricato insidentibus, elongatis, utrinque acutiusculis, sæpius arcuatis, plus minus seriatis, epidermidem rumpentibus, rima irregulari, lacera dehiscentibus et demum expansis, brunneis, dein nigrescentibus, rugosis, membranaceis, 2-5 mm. long., 1-2 mm. lat.; ascis clavatis, supra obtuse acuminatis, stipitatis, 8-sporis, 90-110  $\approx$  7-9; sporidiis filiformi-fusoideis, acutis, rectis v. subcurvis, primo continuis et guttulis pluribus farctis, dein plurilocularibus, hyalinis, 40-50  $\approx$  2,5, paraphysibus filiformibus, supra contortis, hyalinis.

*Hab.* in ramulis siccis Abietis excelsæ et Laricis in silvis montanis, Germaniæ.

2. **Colpoma pseudographioides** Rom. F. aliq. Suec. pag. 25. — Peri- 4439  
theciis elongatis v. linearibus, sæpe flexuosis, nigris, circ. 2-3 mm. long.; ascis sublanceolatis, deorsum in stipitem longum attenuatis, 75-180  $\approx$  7-8; sporidiis subfiliformibus, apice rotundatis, deorsum sensim angustatis, hyalinis, contiuuis, 25-35  $\approx$  1-1,5; paraphysibus filiformibus, apice curvatis v. flexuosis v. circinatis, 1  $\mu$ . cr.

*Hab.* in cortice ramulorum dejectorum Abietis excelsæ in Nericia Sueciæ. — Habitus *Pseudographidis elatinæ*, at *Colp. crispo* verisimiliter nimis affine.

3. **Colpoma serrulatum** Rom. F. aliq. Suec. pag. 25. — Peritheciis 4440

erumpenti-superficialibus, dense sparsis, udis apertis, margine albo v. cæsiò, subtiliter et amœne crenulato, demum nudo, nigro, disco ellipsoideo v. subrotundo v. irregulariter oblongo et flexuoso, subplano, obscure cæsiò v. subviolaceo-plumbeo v. sordido, siccis subclausis, disco atro, margine flavescente v. denudato nigro, extus nigris, sublevibus, 1-2 mm. long.,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. lat.; ascis stipitatis, subclavatis, apice attenuatis, deorsum in stipitem sensim angustatis, 150-180  $\simeq$  10-12; sporidiis subfiliformibus, apice truncato-rotundatis, deorsum parum angustatis, subrectis, continuis, hyalinis, strato mucoso hyalino, interdum vix conspicuo obductis, 70-75  $\simeq$  2; paraphysibus filiformibus; ascis longioribus, apice circinatis, 1,5-1,8  $\mu$ . cr.

*Hab.* in ligno et cortice Pini silvestris dejectæ in Nericia Sueciæ. — Differt a *C. morbido* subiculo subnullo, peritheciis non vel vix rugosis, labiis læte coloratis etc.

4. **Colpoma Azalææ** (Schw.) Cooke Grev. XVII, pag. 58, *Hysterium* Schw., Syll. II, p. 757. — Sec. Cooke loc. cit. habet perithecia 1-3 mm. longa, sporidia 90  $\simeq$  2. — *Lophodermium Petersii* B. et C., Syll. II, p. 795, teste Cooke Grev. XVII, p. 58, non differt a *Coccomycete Juniperi* Karst., Syll. VIII, p. 246.

**ROBERGEEA** Desm. — Syll. II, p. 806.

1. **Robergea singularis** (Duby) Rehm Rev. Hyst. Dub. p. 4, *Ostropa* 4441 *cinerea* var. *singularis* Duby in herb. — Gregaria, verrucas in ligno denudato, albas, 2-4 mm. long., 1 mm. lat.,  $\frac{1}{2}$  mm. alt., ellipticas v. hemisphæricas, anguste cinereo-limbatis formans; verrucis vertice 1-2 maculas rotundas, subconcavas, punctiformes, fuscidulas, medio dilutiores, sine ostiolo conspicuo gerentibus; nucleolo sub maculis transverse fere horizontaliter in longitudinem 2-3 mm. in ligno sito; ascis 600-700  $\simeq$  7-8; sporidiis filiformibus, 500  $\simeq$  1; paraphysibus tenerrimis.

*Hab.* ad ramos exsiccatos *Rhois typhini* in Helvetia (?).

**ACROSPERMUM** Tode. — Sacc. Syll. II, p. 807.

1. **AcrospERMUM Robergeanum** Desm. Ann. des Sc. Nat. ser. 3, 4442 t. XVI et Cooke in Grev. XII, p. 101. — Sparsum, minutum, clavatum, cylindricum, brunneo-pallidum, apice et basi albidum, siccum nigrescens, complanatum; ascis cylindræis, longissimis, tenuibus, octosporis, 250  $\mu$ . longis; sporidiis parallele stipatis, filiformibus, ascos longitudine subæquantibus, hyalinis.



*Hab.* in foliis semiputridis Corni sanguineæ in Gallia.

2. **Acrospermum gracile** Corda Ic. fung. III, pag. 28, fig. 75. — 4443

Peritheciis clavatis, stipitatis, glaberrimis, nitidis, violaceo- v. rufofuscis, basi subbulbosis, subinclinatis, acuminatis; nucleo albo; sporidiis filamentosis, tenuissimis, guttulatis, 1-1,4  $\mu$ . crassis.

*Hab.* in caulibus putridis Adenostylis albifrontis in Riesengebirge Bohemiæ.

3. **Acrospermum fultum** Harkn. New Calif. Fungi p. 26. — Peri- 4444

theciis cuneiformibus, gregariis, 1-1½ mm. longis, transverse striatis, basi erismæ ad instar formata suffultis mycelioque radiculoso insidentibus; ascis octosporis, cylindraceo-clavatis, in stipitem gracilem, longum attenuatis, 500  $\approx$  9; paraphysibus linearibus, ascorum longitudinem æquantibus; sporidiis filiformibus, multiguttulatis vel pseudoseptatis, 300-350  $\approx$  2.

*Hab.* in foliis emortuis Eucalypti, San Francisco Californiæ.

4. **Acrospermum album** Peck 32 Rep. p. 38. — Album, subfusiforme, 4445

subcompressum, apice acuminatum, deorsum in stipitem brevem, teretem attenuatum; sporidiis numerosis, elongatis, filiformibus.

*Hab.* in caule Araliæ racemosæ, Catskill Mountains Amer. bor. — Peritheci magnitudo ut in *A. compresso*.

5. **Acrospermum antarcticum** Speg. F. Fueg. n. 310. — Peritheciis 4446

sparsis, sæpius geminatis, erectis, ellipticis, valide compressis, superne acute obtusatis, inferne cuneatis ac brevissime crasseque stipitatis 600-700  $\approx$  250-300  $\approx$  80-100, margine rotundatis, atris, glabris, membranaceo-coriaceis, contextu subindistincte parenchymatico olivaceo; ascis cylindraceis, longissimis, apice rotundatis, crasse tunicatis, lateque 1-foveolatis, deorsum longe attenuatis, 450-500  $\approx$  3, aparaphysatis; sporidiis fasciculatis, filiformibus, tenuissimis, ascorum fere longitudine 300  $\approx$  0,5, primo minutissime guttulatis, dein densiuscule septatis, hyalinis.

*Hab.* ad caules foliaque arida putrescentia Hamadryadis magellaniciæ in alpinis pr. Port Cook in Staten island Fuegiæ.

## LABOULBENIACEÆ Peyr. — Syll. VIII, p. 909\*).

**PEYRITSCHIELLA** Thaxt. N. Am. Laboulb. p. 8 [1890] (Etym. a cl. PEYRITSCH Laboulbeniacearum illustratore). — Receptaculum e cellulis basalibus binis superpositis constans, supra multicellulare, cellula altera e latere interiore processum breviter acutum gerente. Perithecium unicum (raro bina) terminale, submedianum, subconoidum, apice patulo symmetrice 4-lobo. Pseudoparaphyses e punctis variis lateris interioris receptaculi orientes. — *Appendiculina* (Appendicularia) *entomophila* Peck — Syll. VIII, p. 914 — est, sec. Thaxter l. c., *Stigmatomyces entomophilus* dicenda.

1. **Peyritschella curvata** Thaxt. l. c. — Plerumque vehementer curvata, hyalina, exclusa basi insertionis nigra basibusque nigris pseudoparaphysum, medio arcte constrictis; pseudoparaphysibus hyalinis, cylindricis v. subclavatis, subseptatis, in 3-5 fasciculos alterne dispositos collectis, 60  $\mu$ . long; peritheciis 90-100 = 22-29; sporidiis fusoides, asymmetrice 1-septatis, muco obductis, 26 = 4. 4447

*Hab.* in *Platyno cincticolli*, Connecticut Amer. bor.

2. **Peyritschella minima** Thaxt. Suppl. Not. Laboulb. pag. 266. — 4448  
Hyalina v. flavida; peritheciis majusculis, 100 = 33, in apicem obtusum 4-papillatum symmetrice attenuatis; paraphysibus brunneolis, 2-3-articulatis, 35  $\mu$ . long.; receptaculo subtriangulari, brevi, 90-110 = 50-58, obtuso, circiter 12-cellulari; sporidiis fusoides, 37-40 = 4.

*Hab.* in *Platyno cincticolli*, Connecticut Amer. bor. — Affinis *P. curvatæ*, a qua differt receptaculo supra cellulam basilarem multicellulari, cellula singula supra-basilaris deficiente.

**ZODIOMYCES** Thaxt. Suppl. Not. Laboulb. p. 263 (Etym. *zodion* animalculum et *myces* fungus). — Receptaculum in basim attenuatum, parenchymatico-multicellulare, supra cupulatum plus minus

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\*) Tota præsens additio generum atque specierum Laboulbeniacearum debetur ill. THAXTERO, cujus fusiores descriptiones necessario conferendæ sunt. Icones, in cohorte hac difficillime describenda fere necessarias, ab eximio mycologo americano avide expectamus.

distincte marginatum, ibique perithecia plura stipitata atque filamenta indivisa, septata, sterilia exserens. Perithecia asymmetrica, apice inclinato, appendiculata, stipite indiviso, septato apice rotundato-inflato suffulta. Asci . . . . Sporidia hyalina, fusoidea, asymmetrice 1-septata, mucò obvoluta.

1. **Zodiomyces Vorticellariæ** Thaxt. l. c. — Lividus, centro flavicans, 4449  
basi purpurascens; receptaculo tubæformi 225-400  $\approx$  100-185 (absque peritheciis et filamentis); peritheciis 55  $\approx$  15-18, appendicibus auriformibus 15-30  $\approx$  5, lateralibus 50  $\approx$  3; stipite 35-50  $\approx$  3,5-4, filamentis sterilibus 200  $\approx$  3-4; sporidiis 45  $\approx$  2,5-3.

*Hab.* in cruribus Hydrocombi lacustris, Connecticut Amer. bor.

**HESPEROMYCES** Thaxt. Suppl. Not. Laboulb. p. 264 (Etym. *hesper* serum et *myces*). — Perithecia asymmetrica, transverse ter constricta, apice abrupte conico, appendiculato prædita, cellulis binis suffulta. Receptaculum tricellulare, una cellula basilaris, superæ binæ; quarum externa appendicem antheridialem, interna perithecium stipitatum gerit. Appendix antheridialis simplex, cylindrica, septata, uno latere 1-seriatim denticulata. Affinis *Stigmatomycti*.

1. **Hesperomyces virescens** Thaxt. l. c. — Flavido-virens, receptaculo 75  $\approx$  30; perithecio 250-260  $\approx$  66, appendicibus longioribus 40-45  $\mu$ . long.; sporidiis fusoideis 1-(pluri?)-septatis, 65  $\approx$  6. 4450

*Hab.* in coleoptero Chilocoro bivulnero in California.

**CANTHAROMYCES** Thaxt. N. Am. Laboulb. p. 9 [1890] (Etym. *cantharos* scarabæus et *myces*). — Receptaculum simplex vel supra cellulam supra-basilarem compositum, divisionibus una vel pluribus perithecium singulum gerentibus. Pseudoparaphyses una vel plures, e cellula supra-basilaris orientes. Perithecium medium, in apicem symmetricum attenuatum.

1. **Cantharomyces verticillatus** Thaxt. l. c. — Pallide flavus; perithecio basi leniter dilatato, versus apicem conico-subtruncatum attenuato, 90-127  $\approx$  18-26; pseudoparaphysibus 2-4 e cellula minuta supra-basilaris verticillatum orientibus, simplicibus v. ramosis, semel v. bis ad septa constrictis, 50-125  $\mu$ . long., articulis brevibus obtusis; pseudoparaphysi unica ex articulis teretibus vix constrictis composita ex tertia cellula basilaris; sporidiis fusoideis, simulate 1-septatis, 18-20  $\approx$  3 (intra perithecium tantum visis). 4451

*Hab.* in *Sunio longiusculo*, Anna Ill. Amer. bor. (S. A. FORBES).

2. **Cantharomyces Bladii** Thaxt. l. c. p. 10. — Flavidus; perithecio <sup>4452</sup> subconico, singulo v. binis in divisione receptaculi e cellula supra-oriente acrogenis, 90-130  $\approx$  33-55; pseudoparaphysibus singulis v. pluribus e cellula supra-basilari orientibus, 90-180  $\mu$ . long., e 3 cellulis superpositis, secunda inflata longitrosum septata, formatis, tertia cuboidea minuta ramulos graciles, curvulos, numero varios gerente; sporidiis anguste fusoides, muco obvolutis, asymmetricè 1-septatis, 25  $\approx$  3,5.

*Hab.* in *Bladio assimili*, Champaign, Ill. Amer. bor. (S. A. FORBES). — Longitudo fungilli 200-370  $\mu$ .

**LABOULBENIA** Mont. — Syll. VIII, p. 909.

1. **Laboulbenia elongata** Thaxt. N. Amer. Laboulb. p. 10. — Brun- <sup>4453</sup>nea v. nigricans; perithecio ovoideo-oblongo, 135-170  $\approx$  65-70, supra obscuriore, poro hyalino; pseudoparaphysibus e disco basilari nigro orientibus, binis, brunneo-nigricantibus, subinde apicem versus hyalinis, septatis, subconstrictis, cellulis basilaribus distinctis, interiore ramulos binos, subinde furcatos gerente, exteriori pseudoparaphysem 200-700  $\mu$ . long. semel v. bis dichotome ramosam gerente; sporidiis fusoides, hyalinis, prope apicem uniseptatis, muco obvolutis, 75-80  $\approx$  6,5-8.

*Hab.* in *Platyno cincticollis*, Connecticut Amer. bor. — Fungillus totus 950  $\mu$ . alt. Species e maximis.

2. **Laboulbenia brachiata** Thaxt. loc. cit. pag. 11. — Brunneo-ni- <sup>4454</sup>gricans; peritheciis ovoideo-oblongis, 150  $\approx$  50-60, prope apicem hyalinum obscuriore; pseudoparaphysibus nigricantibus v. subhyalinis, e disco basilari nigro, minuto, fultis e basi cellulari obliqua oriundis, denis in fasciculos seriatos collectis, septatis longioribus, 700-740  $\mu$ . long., brevioribus, 150-180  $\mu$ . long., cellula basilari et subbasilari inflata suffultis, semel v. bis dichotomice ramosis, ramis ultimis longissimis et attenuatis; sporidiis hyalinis, fusoides, prope extremitatem uniseptatis, muco obvolutis, 60  $\approx$  5.

*Hab.* in *Patrobo longicorni*, Connecticut, Maine Amer. bor. (Dr. TOWNSEND). — Fungillus totus 950  $\mu$ . alt.

3. **Laboulbenia fumosa** Thaxt. l. c. p. 12. — Fumoso-brunnea, sub- <sup>4455</sup>olivacea; perithecio ovoideo-oblongo vel ovoideo, 120-130  $\approx$  50-75, apice circa porum hyalinum sæpe truncato, vix obliquo; pseudoparaphysibus, 75-800  $\mu$ . long., basi 3-4-cellulari, disco nigro inserta

suffultis, inæqualiter erecto-ramosis, ramulis simplicibus, hyalinis; cellula basilari interna ramulos tenues septatos, hyalinos subinde demum perithecio duplo longiores emittente; sporidiis fusiformibus, prope apicem septatis, muco obvolutis,  $55-60 \approx 5-5,5$ .

*Hab.* in *Platyno cincticollis*, Connecticut Amer. bor. — Fungillus ad apicem perithecii  $250-300 \mu$ . long.

4. **Laboulbenia Harpali** Thaxt. l. c. p. 13. — Hyalina v. dilute straminea; perithecio ovoideo-oblongo,  $90 \approx 40$ , subinde brunneolo, apice nigricante, excepto pori ambitu; receptaculo perithecio subparallelo; pseudoparaphysibus hyalinis, e disco basilari nigro, perithecio medio opposito, orientibus, binis, cellulis basilaribus connexis; pseudoparaphysi exteriori inæqualiter 1-2-dichotome ramosa,  $200-300 \mu$ . long., interiori plerumque e ramulis duobus brevibus,  $100-130 \mu$ . long., ex cellula basilari immediate oriunda; sporidiis ovoideis, prope apicem 1-septatis, muco obvolutis,  $60-68 \approx 5-5,5$ .

*Hab.* in *Harpalo pensylvanico*, Connecticut, Maine Amer. bor. (KITTELY). — Fungillus  $215-300 \mu$ . long.

5. **Laboulbenia elegans** Thaxt. loc. cit. p. 13. — Hyalina; perithecio ovoideo, ad ang.  $40$  v. circ. præ receptaculo flexo,  $110-130 \approx 50-65$ , apice nigricante, excluso pori ambitu; pseudoparaphysibus e disco nigro, basi perithecio fere opposito oriundis, binis,  $250-400 \mu$ . longis, cellulis earum basilaribus connexis; cellula basilari externa ramulos binos, internum dichotomice ramosum, externum simplicem gerente; cellula basilari interna minutissima, ramulos plures breves, curvulos, subclavatos, subinde furcatos,  $50-75 \mu$ . long., antheridiophoros gerente; sporidiis fusoides, prope apicem unum septatis, muco obductis,  $40-50 \approx 4-5$ .

*Hab.* in *Harpalo pensylvanico*, Connecticut, Maine Amer. bor. (KITTELY).

6. **Laboulbenia Casnoniæ** Thaxt. Suppl. Not. Laboulb. p. 266. — Pallide olivacea; perithecio longiusculo,  $75 \approx 30$ , interius infra apicem nigro, apice hyalino, leniter obliquo; pseudoparaphysibus hyalinis, basi olivaceis, externe  $170 \mu$ ., interne  $75 \mu$ . long.; disco insertio-nis obliquo; receptaculo modico, cellula ima subtriangulari, supra-basilaribus magnis, ceteris inter se subæqualibus; sporidiis fusoides,  $35-40 \approx 4$ .

*Hab.* in *Casnonia pensylvanica*, Connecticut Amer. bor. — Minuta et distincta species.

7. **Laboulbenia paupercula** Thaxt. Suppl. Not. Laboulb. pag. 269. — 4459

Atro-brunnea vel olivascens; perithecio crassiusculo  $100 \approx 40$ , apice circa porum hyalino; pseudoparaphysi singula,  $350 \mu$ . long., hyalina, basi fumosa, simplici v. dichotomice ramosa, ramulo antheridiali brevi ad cellulam imam sinistrorsum accedente; disco insertionis obliquo; receptaculo breviusculo; sporidiis fusoideis,  $45 \approx 4,5$ .

*Hab.* in Platyno extensicolli et in Carabideo quodam Connecticut Amer. bor.

8. **Laboulbenia truncata** Thaxt. Suppl. Not. Laboulb. p. 267. — Atro-<sup>4460</sup>  
olivacea, subinde fere opaca; perithecio majusculo, medio expanso, ceterum cylindraceo,  $90-100 \approx 35-40$ ; pseudoparaphysibus binis, externa recta, obtusa, basi atra, simplici,  $150 \mu$ . longa, apice attenuato hyalino, interiore brevior simplici, hyalina; receptaculo brevi, cuneato, cellula ima triangulari; sporidiis fusoideis,  $60 \approx 4,5$ .

*Hab.* in Bembidio, Connecticut Amer. boreali. — Affinis *L. Nebricæ*.

9. **Laboulbenia conferta** Thaxt. Suppl. Not. Laboulb. p. 268. — Hya-<sup>4461</sup>  
lina vel fumoso-brunnea; perithecio brevi et crasso,  $130 \approx 60$ , in apicem hyalinum circa porum, ceterum nigrum, subobliquum abrupto contracto; pseudoparaphysibus hyalinis vel brunneis, exteriori longe maxima,  $300 \mu$ . long., interiore brevior, utraque simplici; receptaculo longiusculo; sporidiis fusoideis,  $50 \approx 16$ .

*Hab.* in Harpalo pensylvanico, Connecticut Amer. bor. — Affinis *L. eleganti*, sed pseudoparaphyses diversæ.

10. **Laboulbenia arcuata** Thaxt. Suppl. Not. Laboulb. p. 268. — Ty-<sup>4462</sup>  
pice vehementer curvata, hyalina v. fumosa; perithecio amplo, fumose atro, subopaco, in apicem rotundum latum pallidiorem attenuato,  $160-185 \approx 50-55$ ; pseudoparaphysibus binis, hyalinis vel brunneolis, e cellulis duabus basalibus oblique exsurgentibus, exteriori multo majore,  $240 \mu$ . longa; disco insertionis obliquo; sporidiis fusoideis,  $65 \approx 4,5-5$ .

*Hab.* in Harpalo pensylvanico, Connecticut Amer. bor.

11. **Laboulbenia scelophila** Thaxt. Suppl. Not. Laboulb. p. 269. —<sup>4463</sup>  
Olivacea v. fumoso-olivacea, cellula ima sæpius hyalina; perithecio amplo, subcylindraceo in apicem minutum hyalinum circa porum subabrupte contracto,  $100-120 \approx 40-50$ ; pseudoparaphysibus ternis  $180 \mu$ . longis, semel vel bis dichotomice ramosis, vehementer curvatis, disco insertionis horizontali; receptaculo brevi, basi acutato; sporidiis fusoideis,  $50 \approx 5$ .

*Hab.* in Platyno extensicolli, Connecticut Amer. bor.

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