

LICHENES EPIPHYLLI

NOVI.

AUCTORE

Dre J. MÜLLER

(*Miill. Arg.*)

GENEVÆ

APUD H. GEORG, BIBLIOPOLAM

E TYPIS M. RICHTER

rue des Voirons, 10.

—
1890.

LICHENES EPIPHYLLI

NOVI

1. **Lecania** (s. **Secoligella**) **fugiens** Müll. Arg.; thallus pallide argillaceo-fulvescens, tenuissimus, continuus, laevigatus, demum facile desquamescens, madefactus subtranslucens; gonidia globosa, circ. 8 μ lata; apothecia $\frac{1}{6}$ — $\frac{1}{4}$ mm. lata, innato-sessilia, prominula, cum thallo concolora, in disco tamen fuscula, madefacta aquoso-subhyalina, evoluta modice concava, mollia; margo crassus, demum patens et extenuatus; lamina hyalina, hypothecium fusculum; paraphyses capillares, tenuissimæ; sporæ in ascis 8-næ, 45—55 μ longae, 14—17 μ latæ, late fusiformes, utrinque obtuse attenuatæ, 13—15-loculares. — Species facile prætervidenda, structura insignis. — Pro hac specie sectio distincta instituenda est: **Secoligella**, cui sunt apothecia parva, madore aquoso-translucentia, subgyalectino-concava; sporæ magnæ, multiloculares. — Foliicola prope Apiahyn Brasilia meridionali: Puiggari n. 250.

2. **Calenia** Müll. Arg., gen. nov. Thallus undique crustaceus; gonidia globosa, læte viridia; apothecia gymnocarpica, urceolari-lecanorina, marginata; paraphyses irregulares, anastomosantes (pertenues); sporæ hyalinæ, transversim divisæ. — Omnia ut in *Lecania*, sed paraphyses irregulares, anastomosantes, haud separabiles. — Nomen novum genericum est anagramma *Lecaniae*.

3. **Calenia pulchella** Müll. Arg.; thallus cinereo-albidus, maculiformis, lœvigatus; apothecia $\frac{2}{10}$ — $\frac{3}{10}$ mm. lata, adpresso-sessilia, crassiuscula, albida et lœvigata, crasso-marginata; margo incurvus et acie subacutus; discus vulgo punctiformis, demum modice dilatatus semperque depresso; lamina undique hyalina; sporæ 8-næ, 8-10 μ longæ, 4 μ latæ, elongato-obovoideæ, rectæ aut curvulae, utrinque obtusæ. — Apothecia haud raro occurunt 2—3—4— natim connata. — Foliicola prope Apiahys Brasiliæ: Puiggari n. 2066, 3005.

4. **Calenia depressa** Müll. Arg.; thallus albus, valde tenuis, minute granulari-inæqualis, orbillas 1—4 mm. latas formans; apothecia depressa, $\frac{4}{10}$ — $\frac{8}{10}$ mm. lata, plana, late adnato-sessilia; margo albus, tenuis, nanus, integer ν . demum subcrenatus et subundulatus; discus carneus ν . carneo-lividus, planus; lamina hyalina; sporæ in ascis solitariæ, 4—6—loculares, late digitiformes, incurvæ, circ. 33 μ longæ et 12 μ latæ. — Apothecia valde juvenilia fere referunt illa *Calenia pulchellæ*, sed demum longe majora evadunt, et sporæ diversissimæ sunt. — Foliicola prope Apiahys Brasiliæ meridionalis; Puiggari n. 2675, et inter miscell.

5. **Calenia Puiggarii** Müll. Arg., thallus leviter flavescenti-albus, tenuissimus, continuus ν . in peripheria interrupto-evanescens, leviter granuloso-inæqualis; gonidia circ. 8 μ crassa; apothecia $\frac{1}{2}$ —1 mm. lata, sessilia, crassiuscula, fusco-nigra, turgidula, tenuissime albo-marginata, novella margine lecanorino crassiore prominulo et crenulato cincta, semper ima basi constricta; epithecium et hypothecium violaceo-nigricantia, lamina cæterum subhyalina ν . leviter violascens, mollis; paraphyses pertenues et crebre anastomosantes; sporæ in ascis 3—6—næ, late vermiformes, fere undique aequilatæ, utrinque obtusæ, 8—loculares, in ascis rectæ ν . etiam varie incurvæ. — Apothecia mox lecideina apparent, sed juniora valide lecanorina sunt. — Foliicola prope Apiahys in Brasilia meridionali: Puiggari n. 2236 pr. p.

6. **Myxodictyon Coffeæ** Müll. Arg.; thallus or-

billas $\frac{1}{2}$ —3 mm. latus solitarias et varie confluentes formans, orbillæ argenteæ *v.* argenteo-virentes, tenuissimæ, laevigatae, nitidulæ, hinc inde obsolete concentrica plicatulæ; hyphæ thallinæ pro parte parallelo-radiantes fere que Phyllactidium simulantes; gonidia globosa; apothecia in thallis pauca, innato-sessilia, $\frac{3}{10}$ — $\frac{4}{10}$ mm. lata, margo crassiusculus, integer *v.* intus crenulatus, cum thallo concolor et semper prominens; discus siccus fumoso-obscurus, madefactus magis albescens; lamina tota hyalina; paraphyses copiosissimæ, capillares, liberæ; sporæ in ascis solitariæ, 70—100 μ longæ, 16—35 μ latæ, elongato-ellipsoideæ, parenchymatice multi-locellosæ, locelli in series transversales circ. 20—24 dispositi, in quaque serie 4—5. — Habitu accedit ad *Gylectidium filicinum*, sed thalli orbillæ laeves, sporæ maiores et paraphyses demum omnino aliæ. — In foliis *Coffea* et in aliis foliis prope Iporanga et Apiayah Brasiliæ: Puiggari n. 2794, 2896, 2886, 2976.

7. **Patellaria (s. *Psorothecium*) premneella**

Müll. Arg.; thallus orbillas exiguae paullo convexas tenues argenteo-griseas et nitidulas formans; gonidia globosa; apothecia nigro-fusca, crassiuscula, mollia, opaca, $\frac{2}{10}$ mm. lata et minora, margine crasso prominente et integro prædita; discus obscure fuscus; lamina subolivacea; paraphyses capillares, facile liberæ; sporæ in ascis solitariæ, 50—70 μ longæ et 20—27 μ latæ, 2—loculares. — Est, extus visa, quasi forma valde minuta *Patellariae premneæ* Duby Bot. gall., sed asci monospori. — Foliicola prope Apiayah Brasiliæ: Puiggari n. 2803 pr. p.

8. **Patellaria (s. *Bilimbia*) subpulchra** Müll.

Arg.; thallus argillaceo-cinereus, tenuissimus, continuus et laevis, dein subleproso-farinulentus; gonidia globosa, subglomerata et solitaria; apothecia $\frac{5}{10}$ — $\frac{8}{10}$ mm. lata, primum crassula et valide albo-marginata, demum appلانata et immarginata, margo ab origine thallo albior, nudus, dein sensim spurie evanescens; discus laete aurantiacus, nudus; lamina undique hyalina; sporæ in ascis 8—nae, late digitiformes, 4—loculares, 14—20 μ longæ et 5—6 $\frac{1}{2}$ μ latæ. — Apothecia plane evoluta ad amussim illa referunt *Biatorinopseos pulchræ* Müll. Arg.

L. B. n. 255, at sporæ et gonidia sunt diversissima. — Quod dein a cl. Nyland. (Lich. Fueg. p. 33) mihi sub maleficio auctoris schemate infelicissime tribuitur, non est *Biatorinopsis pulchra* Müll. Arg. (etiamsi a cl. Puiggari missum), nec est præsens descripta species, et insuper statuendum est me nunquam *Gyalectam pulchram* edidisse. — Foliicola prope Rio Janeiro : Glaziou n. 18106 pr. min. p.

9. **Patellaria** (s. **Bilimbia**) **fallaciosa** Müll. Arg.; thallus maculam olivaceo-viridem tenuissimam continuam lœvem (parum visibilem) formans; gonidia globosa, circ. $12\ \mu$ crassa; apothecia $\frac{3}{10}$ —1 mm. lata, laxe sessilia, juniora flavescenti-carnea, gyalectoidea, concava et late marginata, madefacta fere aquoso-translucentia et pallida, evoluta magis aurantiaca, plana et tenuiter marginata, margo concolor; lamina hyalina; paraphyses capillares, facile liberae; asci anguste linearis, 8—spori; sporæ 6—11 μ longæ, $2\frac{1}{2}$ — $3\frac{1}{2}\ \mu$ latæ, 2—4—loculares (ambitu ludentes). — Evoluta *Biatorinopsis luteam* Müll. Arg. simulat, sed gonidia omnino alia et sporæ majores. — Foliicola, in pagina inferiore sita, prope Apiah Brasiliæ : Puiggari (sine N°).

10. **Patellaria** (s. **Bilimbia**) **superposita** Müll. Arg.; stroma funginum mox superficiale planum, e nigrescente expallidum, filamentis validis ramosis articulatis fuscis, ramillos abbreviatis pyriformes gerentibus formatum, et insuper cum hyphis hyalinis lichenosis microgonidia gerentibus copiosis commixtum est, cui superposita sunt rara apothecia; haec omnino simulant illa *Patellaria leptolomatis* Müll. Arg., gilvo-aurantiaca v. fulvescentia, $\frac{1}{2}$ mm. lata, deplanata, tenuia, immarginata, in peripheria tamen linea obscuriore cincta; lamina hyalina; sporæ 8—næ, 14—17 μ longæ, 4—5 μ latæ, digitiformi-ellipsoideæ, 4—loculares. — In foliis prope Apiah Brasiliæ meridionalis : Puiggari n. 379 quoad specim. anno 1889 hoc sub numero missum.

11. **Patellaria** (s. **Bilimbia**) **rubida** Müll. Arg.; thallus albidus, tenuissimus, farinulentus; apothecia $\frac{4}{10}$ — $\frac{5}{10}$ mm. lata, plana, sicca cinnamomea, madefacta rubentia, in ima peripheria haud emergente tenuiter albes-

centi-pallida ibique demum undulata; lamina fulvescens; hypothecium rufo-fulvum; sporæ 8—næ, 11—13 μ longæ et 4—5 μ latæ, digitiformi-obovoideæ, 4—loculares. — Foliicola prope Apiah in Brasilia meridionali: Puiggari, sine N°.

12. **Patellaria** (s. **Bilimbia**) **fulvula** Müll. Arg.; thallus cinereo-albus, tenuissimus, demum leviter pulverulentus, subcontinuus; gonidia globosa; apothecia $\frac{1}{5}$ mm. lata, fulva, adpressa, convexula, medio latiuscule obfuscata, nuda, haud marginata; lamina hyalina; hypothecium fuscum; sporæ 8—næ, 10—12 μ longæ, 3 $\frac{1}{2}$ —4 μ latæ, late digitiformi-ellipsoideæ, (2-) 4—loculares. — Apothecia laete tincta, hinc inde in ferrugineo-v. ochraceo-fulvum abeuntia. — Foliicola prope Apiah in Brasiliæ: Puiggari (inter miscell.).

13. **Patellaria** (s. **Bilimbia**) **Artocarpi** Müll. Arg.; thallus olivaceo-virens v.-cinerascens, tenuissimus, continuus, sublævis; apothecia $\frac{4}{10}$ — $\frac{5}{10}$ mm. lata et minora, adpressa, convexula, obscure olivaceo-fusca, opaca, margine prominente haud praedita sed in peripheria nonnihil pallidiora; hypothecium rufo-fuscum; sporæ 8—næ, 10—13 μ longæ, 4 μ latæ, 4—loculares, digitiformi-ellipsoideæ. — Affinis *Patellarice Sprucei* Müll. Arg. L. B. n. 291, sed apothecia immarginata, turgido-convexula, minus nigro-fusca et sporæ tenuiores. — In foliis *Artocarpi integrifolii*, in monte Corcovado prope Rio Janeiro: E. Ule n. 21, pr. p.

14. **Patellaria** (s. **Bilimbia**) **fumoso-nigricans** Müll. Arg.; thallus olivaceus v. olivaceo-cirferascens, tenuissimus, maculiformis, continuus et lævis; gonidia irregulariter globosa; apothecia a origine fumoso-v. subfusco-nigricantia, v. fusca, $\frac{4}{10}$ — $\frac{11}{10}$ mm. lata, planissima et tenuissima, pellicularia, arcte adpressa, ad peripheriam nuda et expallentia; margo haud perspicuus; lamina hyalina; hypothecium olivaceo-nigricans; sporæ 2—seriatim 8—næ, digitiformes, utrinque obtusae, 15—22 μ longæ, 4—5 μ latæ, 4—loculares. — Habitu omnino Arthoniam simulat, sed gonidia, paraphyses et asci omnino differunt. — Foliicola prope Apiah in Brasiliæ: Puiggari n. 8, 1520.

15. **Patellaria (s. Bilimbia) polychroma** Müll.
Arg.; thallus flavescenti-aeruginosus *v.* demum argilla-
ceo-pallidus, tenuissimus, continuus, granulis perexiguis
concoloribus *v.* paullo pallidioribus conspersus; gonidia
globosa; apothecia sessilia, basi paullo constricta, $\frac{4}{10}$ —
 $\frac{8}{10}$ mm. lata, crassiuscula, margo albus aut albidus, va-
lidiusculus et leviter prominens, obtusus, integer aut
intus leviter crenato-undulatus, extus dense floccoso-
tomentosus, discus fuscus et nudus; lamina hyalina;
hypothecium rufo-fulvum *v.* fulvo-rufum; paraphyses
liberæ; sporæ 8—næ, 11—14 μ longæ, 4—5 μ latæ, di-
gitiformes, 4—loculares. — Apothecia offert *P. rotuli-
formis* et thallum *P. leucoblepharæ*, at ab ambabus dif-
fert colore hypothecii et margine leviter prominente, et a
posteriore insuper apothecüs multo crassioribus, haud
adpressis. — In fronde *Filicum* prope Apiahÿ Brasiliæ:
Puiggari n. 1086, 1086 b.

16. **Patellaria (s. Bilimbia) aterula** Müll.
Arg.; thallus cinereo-albus, tenuis, continuus *v.* partim
disjunctus, obsolete granulari-inaequalis; gonidia glo-
bosa; apothecia evoluta $\frac{8}{10}$ mm. lata, cæterum copiose
minora. $\frac{2}{10}$ — $\frac{5}{10}$ mm. diametro aequantia, sessilia, haud
adpressa, plana, prima fronte omnino lecanorina, sed jam
valde juvenilia aperta et aterrima, extus crebre albo-
floccoso-barbatula (margo spurius ut in affini *P. leuco-
blephara* Müll. Arg.); discus siccus et madefactus niger,
nudus; lamina violaceo-fuscescens; epithecium nigri-
cans; hypothecium late nigro-fuscum; sporæ 8—næ,
15—18 μ longæ, 4—6 μ latæ, cylindrico-ovoidae,
utrinque obtusæ, 4—loculares. — Proxime accedit ad
neocaledonicam *P. rotuliformem* Müll. Arg., sed differt
disco nigro et ejus vestimento albo. In comparata specie
apothecia extus similiter floccoso-tomentella sunt, sed
hoc indumentum est albido-flavicans et discus fuscus
est. Apothecia bene evoluta simulant parvula *Lecanoræ
atracæ* Ach. — In utraque facie foliorum *Pteridis* prope
Apiahÿ Brasiliæ meridionalis: Puiggari sine n°, et in
foliis *Laurinearum* prope Rio-de-Janeiro: Glaziou (inter
miscell.).

17. **Patellaria (s. Bilimbia) deplanata** Müll.
Arg.; thallus pallide olivaceo-fuscescens *v.* demum ci-

nerascens, tenuissimus, continuus, submaculiformis; apothecia $\frac{4}{10}$ — $\frac{8}{10}$ mm. lata, sicca deplanato-pellicularia, arcte adpressa, olivaceo — aut fumoso — nigricantia, madefacta turgida et pallidiora, margine prominente semper destituta, sed in ima peripheria tenuissima nonnihil expallentia; lamina virenti-hyalina; hypothecium olivaceo-fuscum; sporæ 8—næ, 14—20 μ longæ, 4— $4\frac{1}{2}$ μ latæ, digitiformes, (6—)8—loculares. — Prima fronte simillima apiahensi: *P. fumoso-nigricanti*, sed apothecia paullo minora et sporæ e contra longiores et multo magis divisæ. Diversitas hæc sporarum evidenter normalis est, nec tantum e diverso gradu evolutionis orta est. Utriusque sporas copiosas bene evolutas vidi. — Foliicola prope Rio-de-Janeiro: Glaziou n. 18098.

18. **Patellaria** (s. **Bilimbia**) **leucoblephara** (Nyl.) Müll. Arg. L. B. n. 277, in foliis frequenter occurrit et colore thalli, magnitudine et vestimento albo *v.* albido *v.* flavicante marginis et ambitu sporarum valde ludit. Ob transitus manifestos huic etiam referenda est *P. xanthoblephara* Müll. Arg. Lich. Paraguayens. n. 114, vestimento distinctius ochraceo-flavicante; sit ergo *P. leucoblephara* *β.* *xanthoblephara* Müll. Arg., nunc etiam prope Rio-de-Janeiro (Glaziou) lecta.

— *γ fusco-pallida* Müll. Arg.; discus pallidior, varie fuscus, evolutus haud nigricans (indumentum marginis, hypothecium et sporæ cæterum convenient). — Foliicola prope Apiah Brasiliæ: Puiggari, sine n°.

19. **Patellaria** (s. **Bacidia**) **apiahica** Müll. Arg.; thallus incano-argillaceus, tenuissimus, fufuraceus; gonidia subconglomerata et solitaria, globosa; apothecia $\frac{1}{6}$ — $\frac{1}{4}$ mm. lata, sessilia, flavidio-rufescens, plana *v.* demum convexula, nuda, margine prominente destituta, madore expallentia; lamina hyalina, tantum 35—40 μ alta; sporæ 8—næ, 18—36 μ longæ, circ. 2 μ latæ aut tenuiores, 1—4—loculares. — Juxta pallidiorum *P. americanam* Müll. Arg. Revis. Lich. Féean. p. 7 locanda est. *P. pallido-carnea* Müll. Arg. differt apotheciis pallidioribus et sporis longioribus magisque divisus et a simili *P. translucente* Müll. Arg. recedit sporis subduplo brevioribus. — Foliicola prope Apiah

Brasilie meridionalis: Puiggari n. 1025, 1091, 2919,
2975, et prope Rio-de-Janeiro: Glaziou n. 18096.

20. **Patellaria** (s. **Bacidia**) **brasiliensis** Müll.
Arg.; thallus olivaceus *v.* argillaceo-olivaceus *v.* demum
argillaceo-albidus, tenuissimus, continuus, granulis
peregrinis subconcoloribus crebre conspersus; apo-
thecia $\frac{4}{10}$ — $\frac{6}{10}$ mm. lata, margine pallido (gonidiis des-
tituto) nunc tenuiore nunc crassiore primum prominente
cincta, demum fere immarginata, plana aut leviter con-
vexa, discus fuscus *v.* dein fusco-nigricans; epithecium
hyalinum *v.* flavescens-hyalinum; hypothecium fulvo-
fuscescens *v.* demum rufum; sporae 30—50 μ longae,
 $2\frac{1}{2}$ —3 μ latæ, basi angustatæ, circ. 10—15—loculares.
— Inter *P. luteolam* et *P. millegranam* Müll. Arg. inser-
renda est. — Juvenilis subinde perfecte *Lecanoram* si-
mulat. — Foliicola prope Apiahys Brasiliae: Puiggari n.
1086 pr. p., et in foliis *Danaeae* in monte Corcovado:
E. Ule n. 26, pr. p.

— β **laevis** Müll. Arg.; thallus haud granuligerus
v. granulis peregrinis subobsoletis hinc inde parce
praeditus. — Reliqua ad amussim conveniunt. Sporæ
subinde usque ad 80 μ attingunt et 16—28—loculares
observantur. — Hic similiter ac in aliis sectionis *Baci-
dia* sporarum longitudo et numerus loculorum valde lu-
dunt. — Foliicola prope Apiahys Brasiliæ meridionalis:
Puiggari n. 1086 pr. p.

21. **Patellaria** (s. **Bacidia**) **rubicunda** Müll.
Arg.; thalli vestigia albida, tenuissima, subobsoleta; apo-
thecia $\frac{3}{10}$ — $\frac{4}{10}$ mm. lata, crassula, sessilia, rubicundo-
aurantiaca, undique, concolora, madefacta translucida,
haud marginata, plana aut leviter convexa; lamina tota
cum hypothecio fulvescenti-hyalina; sporæ 8—nae.,
60—90 μ longæ, tantum 3 μ latæ, inferne angustatæ,
crebre 20—28—loculares, loculi subæquilongi ac lati.
— Prope *P. multilocularem* Müll. Arg. inserenda est,
habitu autem *P. translucentem* Müll. Arg. simulat,
cujus sporæ valde diversæ. — Foliicola prope Apiahys in
Brasilia meridionali: Puiggari n. 1086 pr. min. p.

22. **Patellaria** (s. **Bacidia**) **palmularis** Müll.
Arg.; thallus olivaceo-virens, tenuissimus, continuus et

lævis; apothecia $\frac{1}{2}$ —1 mm lata, crassiuscula, novella mar-
gine albido haud prominente tenui demum recluso præ-
dita, discus fuscus, demum nigro-fuscus, e plano leviter
convexus, semper nudus; lamina tota cum hypothecio
flavescens — v. subfulvescens — hyalina; spore 8 — næ,
longe vermiciformes, circ. 100 μ longæ, longissimo tractu
 $3\frac{1}{2}$ — $4\frac{1}{2}$ μ latæ, circ. 28 — loculares. — Apothecia basi fibris
brevibus albidis retrorsum spectantibus prædicta sunt. —
Prope *P. rubicundam* et *P. multilocularem* Müll. Arg.
locanda est. — In foliis Palmarum minorum prope Rio-
de-Janeiro: Glaziou n. 18069.

23. **Patellaria** (s. **Bacidia**) **consanguinea**
Müll. Arg.; thallus argillaceo-olivaceus, tenuissimus,
continuus et lævis, facile secedens; apothecia $\frac{4}{10}$ — $\frac{5}{10}$ mm.
lata, novella tenuissime albido-marginata, evoluta immar-
ginata, subplana, tabacino-fusca, demum nigrescenti-
fusca; epithecium cum lamina hyalinum; hypothecium
fuscum, inferne nigricans; spore 8 — næ, firme aciculares,
 30 — 37 μ longæ et $2\frac{1}{2}$ — 3 μ latæ, 5 — 7 — septatae.
— Proxima *P. nigrescens* Müll. Arg., sed apothecia no-
vella rufescens-fusca, semper pallidiora et spore minus
divisæ. — Folicola prope Apiahys Brasiliæ meridionalis:
Puiggari n. 2288, et prope Rio-de-Janeiro: Glaziou:
n. 18102.

24. **Patellaria** (s. **Bacidia**) **nigrescens** Müll.
Arg.; thallus olivaceo-fuscens, tenuissimus, conti-
nuus et lævis; apothecia $\frac{4}{10}$ — $\frac{5}{10}$ mm. lata, nigro-fusca,
mox nigrata, concolora, demum leviter turgida; epithe-
cium et lamina flavescens — v. fulvescens-hyalina; hypo-
thecium rufo-nigricans; spore aciculares, circ. 25—40 μ
longæ et 2 — $2\frac{1}{2}$ μ latæ, circ. 4—10 — loculares. — Juxta
P. intercedentem Müll. Arg. locanda. — Folicola prope
Apiahys Brasiliæ meridionalis: Puiggari n. 1086, et prope
Rio-de-Janeiro: Glaziou n. 18075 pr. p., 18083 pr. p., et
n. 18100.

25. **Tapellaria** Müll. Arg., gen. nov.; thallus un-
dique crustaceus; gonidia globosa, laete viridia; apothe-
cia gymnocarpica, biatorino-lecideina; thalamii para-
physes anastomosanti-ramosissimae (pertenues); spore
hyalinæ, transversim divisæ. — Characteres omnes ut

in *Patellaria*, exceptis paraphysibus clathratim connexis s. anastomosantibus. — Nomen novum est anagramma *Patellariae*.

26. **Tapellaria herpetospora** Müll. Arg.; thallus cinereo-virens, tenuissimus, maculas exiguae suborbiculares discretas et varie confluentes formans, superficie laevis; gonidia circ. 6 μ crassa; apothecia $\frac{4}{10}$ — $\frac{5}{10}$ mm. lata et minora, nigra, opaca, crassiuscula, in peripheria tenuiter cinerascentia, margine distincto destituta, novella tamen leviter concava; campylidia livida; epiphecium atro-rufum; hypothecium cupreo- r. rufos-nigricans; paraphyses laxiuscule anastomosantes; spora in ascis 2—3—natae, tota longitudine subaequilatae, utrinque obtusae, circ. 15—loculares, circ. 100 μ longae et 12 μ latae. — Extus *Lopadium epiphyllum* Müll. Arg. simulat. — Foliicola prope Apiah in Brasilia meridionali: Puiggari n. 2535 pr. p.

27. **Lecidea (s. Biatora) pteridophila** Müll. Arg.; thallus albus, tenuissimus, verniceus, laevigatus et continuus; gonidia globosa; apothecia $\frac{3}{10}$ — $\frac{4}{10}$ mm. lata, arce sessilia, plana, tenuiuscula, tenuiter marginata; discus planus, fuscus, nudus; margo nigro-fuscus et integer; epiphecium fuscescens, reliquae partes laminæ hyalinae; spora 8—nae, ovoideae, 15—18 μ longae et 9—10 μ latae. — A simili *L. leptolomatæ* Müll. Arg. L. B. n. 347 statim differt thallo albo, tenuissimo et laevigato, nec non apotheciis minoribus et tenuioribus. — Pteridicola prope Apiah in Brasilia meridionali: Puiggari (e. miscell.).

28. **Asterothyrium** Müll. Arg., gen. nov.; thallus undique crustaceus; gonidia globosa, laete viridia; apothecia gymnocarpica, primum velo (fumoso-nigricante) crassiusculo obtecta, dein velo e centro ad peripheriam in lacinias aliquot triangulares secedente nudato-aperientia, suburceolaria; margo lacinulas mox obsoletis demum subinteger, cum thallo (leviter) discolor, extus thallino-subvestitus; paraphyses (copiosissimæ) capillares, liberæ, in muco nidulantes; spora hyalinæ, transversim divisæ. — Genus juxta *Patellariam* locandum, dehiscentia stellari disci insignitum, habitu ad *Rotu-*

lam accedit. Hyphæ in margine orbillarum thallinarum dense radiantes et fere gonidia phyllactidialia *Phylloporinorum* simulant.

29. **Asterothyrium argenteum** Müll. Arg.; orbillæ thallinae 1—2 mm. latae, margine tenuissimæ, centro crassiores, argenteæ, lavigatae et nitidulae, mono-oligo-carpicæ, mox copiose in orbillas majores, centimetrales et majores confluentes; apothecia copiosa, clausa juniora paullo depressa et jam hoc statu velo fumoso-nigricante et radiatim striato tecta, evoluta semiemersa, $\frac{1}{2}$ —1 mm. lata et minora; margo tenuis, carneo-albidus, quam thallus minus albus, primum in dentes triangulares conniventes a disco carneo depresso secedentes abiens, demum iis obsoletis subinteger, acutiusculus; lamina hyalina; sporæ 8—næ, 2—loculares, circ. 32 μ longæ, 7—10 μ latæ, utrinque obtusæ, medio paullo constrictæ. — Foliicola prope Apiahÿ in Brasilia meridionali : Puiggari n. 1748.

30. **Asterothyrium monosporum** Müll. Arg.; thallus orbillas exiguae 1—2 mm. latas argenteas et monocarpicas formans; gonidia globosa; apothecia $\frac{2}{10}$ — $\frac{3}{10}$ mm. lata, subimmersa, fumoso-nigricantia, aperta demum intus edentata; margo nigricans, prominulus, versus discum olivaceo-nigricans; lamina tota hyalina; paraphyses copiosæ, capillares; ascii 1—spori; sporæ 70—100 μ longæ, 20—30 μ latæ, oblongo-ellipsoideæ, regulariter et constanter 2—septatæ, sc. 3—loculares.— Species sporis 3—locularibus, copiose visis, valde insignita est. Foliicola prope Iporanga in vicinitate Apiahÿ : Puiggari n. 2805.

31. **Heterothecium perpallidum** (Nyl.) Müll. Arg. L. B. n. 265, var. **monosporum**; ascii constanter monospori et sporæ dein ambitu latiores, circ. 90—110 μ longæ, 23—33 μ latæ. — In forma normali sporæ simul mixtum solitariæ, binæ et ternatæ occurunt et ambitu semper angustiores sunt. Ambæ cæterum, etiam hypothecio fulvo, optime convenient. — Foliicola prope Apiahÿ : Puiggari (inter miscellan.).

32. **Heterothecium Puiggarii** Müll. Arg. L.

B. n. 264 β **lividum** Müll. Arg.; apothecia hinc inde obsolete pallido-marginatula, minus atra, madefacta ν . hinc inde etiam sicca livido-nigricantia, omnia demum nigra. — Sporarum longitudo ludit 50—75—micromillimetalis, similiter ac in planta normali speciei. — Foliicola prope Iporanga in Brasilia meridionali : Puiggari n. 2802, 2803 pr. p.

— γ **versicolor** Müll. Arg.; apothecia versicolora, a pallido-et rufescenti-fusco in obscure fuscum et nigricans abeuntia, pro parte pallide marginata; hypothecium ex olivaceo eo pallidius quo discus pallidior. — Reliqua optime congruunt et transitus subinde in eodem thallo adsunt, etiamsi formae extremae specifice longe diversae appareant. — Foliicola prope Apiah : Puiggari n. 2132.

33. **Heterothecium delicatulum** Müll. Arg.; thallus olivaceo-virens, maculiformi-tenuis, continuus, laevis; gonidia globosa; apothecia $\frac{2}{10}$ mm. lata et minora, adpresso-sessilia, primum margine pallido mox evanescente cincta, caeterum obscure fusca, convexula, nuda; lamina hyalina; hypothecium olivaceum; spora in ascis solitariae, circ. 60 μ longae et 17 μ latae, crebre parenchymatosae. — A proximo *H. Begoniæ* Müll. Arg. L. B. n. 267 recedit apotheciis minus fuscis, magis adpresso-sessilia, minus crassis, haud urceolatis et dein hypothecio pallido olivaceo. — Foliicola prope Apiah in Brasilia meridionali, verisimiliter in foliis *Cannarum* : Puiggari n. 2254.

34. **Heterothecium inconspicuum** Müll. Arg.; thallus argillaceo-olivaceus, tenuissimus, continuus, laevigatus; gonidia globosa, circ. 7 μ lata; apothecia $\frac{4}{20}$ — $\frac{5}{20}$ mm. lata, cum thallo fere concolora, immersa, madefacta valde guttulato-turgida et pellucida, halone thallino tecta; discus cum thallo subconcolor, planus; margo madefactus thallo distinete pallidior, paullo prominens, obtusus et integer; lamina undique hyalina; paraphyses tenuiter capillares; spora 8-nae, tantum 14—18 μ longae, 6—7 $\frac{1}{2}$ μ latae, oblongato-obovoideae, 4—6—loculares, loculi intermedii pro parte longitrosum semel divisi. — Oculis nudis vix perspicienda. — Foliicola

cola prope Apiahy Brasiliae : Puiggari (inter miscell. parcissime).

35. **Lopadium eretaceum** Müll. Arg.; thallus orbillas exiguae margine plus minusve lacero-incisas pro parte late confluentes formans, cretaceo-*v.* lacteo-albus, obsolete ruguloso-inaequalis, demum rimulosus et subpulverulentus; apothecia $\frac{4}{10}$ — $\frac{7}{10}$ mm. lata, sessilia, margine albido demum subcrenulato et subevanescente cincta; discus niger; epithecium et hypothecium fusco-nigricantia; sporae in ascis solitariae, circ. 70 μ longae et 25 μ latae, crebre parenchymatosae. — Species valde affinis *Lop. melaleuco* Müll. Arg., sed thallus albus, crassior, non laevigatus, demum subpulverulentus, orbillae circumcircata inciso-irregulares. — Foliicola prope Apiahy, in *Araucaria*, Citro et aliis : Puiggari n. 1086 pr. p. et inter miscell.

36. **Lopodium olivaceum** Müll. Arg. L. B. n. 271. β **expallens**, apothecia pallidiora, madefacta sub-aquoso-expallentia; epithecium hyalinum; hypothecium pallide olivaceum. — In foliis *Aurantiacearum* prope Apiahy Brasiliae : Puiggari n. 1753, 3179 (hoc mixt. cum normali *Lop. olivaceo*, cuius apothecia sicca non raro vix minus nigra sunt quam in *Lop. epiphylo* Müll. Arg.).

37. **Lopodium gilvum** Müll. Arg.; thallus argil-laceo-albidus, tenuissimus, laevigatus, orbillas 3—7 mm. latas ambitu subplumosulas formans; apothecia $\frac{2}{10}$ — $\frac{3}{10}$ mm. lata, sessilia, planiuscula, gilvo-aut livido-fuscidula, pallida, madefacta albido-pallescens; margo tenuis et concolor, parum distinctus; lamina hyalina; sporae in ascis solitariae, 50—65 μ longae et 13—18 μ latae, copiose multilocellosae, locelli in series transversales circ. 18 dispositi. — Ab affini *L. vulgari* Müll. Arg. L. B. n. 276 statim recedit thallo laevigato, apotheciis multo crassioribus, haud adpressis, demum planis, nec demum medio gyalectino-concavis. — Foliicola prope Rio-de-Janeiro : Glaziou n. 18084 pr. p., et prope Apiahy : Puiggari (sine n°.).

38. **Lopodium aurantiacum** Müll. Arg.; thallus vitellino-aurantiacus, demum albescens, minute or-

bicularis, hinc inde confluens, tenuis, minute rimulosus et minute granularis; gonidia globosa, circ. $8\ \mu$ lata; apothecia $\frac{3}{10}$ — $\frac{4}{10}$ mm. lata, arcte sessilia, crassula, aurantiaca, primum margine crasso vultu thallino sed dein cum thallo discolore et proprio facto haud prominulo cincta, discus paullo obscurior, saepe primum thallino-pulveraceus; epithecium fulvum, hypothecium obscure fulvum, lamina caeterum hyalina; paraphyses eximie tenues et crebre anastomosantes; asci monospori; sporae circ. $70\ \mu$ longae et $15\ \mu$ latae, crebre parenchymatosae. — Haud parvam analogiam offerunt apothecia cum iis *Gyalectidii xantholeuci* Müll. Arg., sed demum evidenter biatorina sunt. — Foliicola prope Apiahy Brasiliae meridionalis: Puiggari: n. 492.

39. **Biatorinopsis brachyspora** Müll. Arg.; thallus pallido-virens, tenuissimus, continuus, laevigatus; gonidia chroolepoidea; apothecia $\frac{1}{2}$ — $1\frac{1}{4}$ mm. lata, laxe sessilia, pallide carneo-aurantiaca, e leviter concavo mox plana, margine tenuissimo paullo pallidiore cincta; lamina tota hyalina; sporae subuniseriatim 8-nae, 4 — $6\frac{1}{2}\ \mu$ tantum longae, 2 — $3\ \mu$ latae, 2—loculares. — Apothecia ut in *B. lutea* Müll. Arg., sporae ut in *B. microspora* ejusd. — Foliicola prope Apiahy in Brasilia meridionali: Puiggari n. 384, 1024.

40. **Biatorinopsis zonata** Müll. Arg.; thallus flavicans v. e flavidio-virente variegatus, demum argillaceo-expallens, suborbicularis, late expansus, in peripheria sensim in zonam 1—3 mm. latam argenteo-exalbescentem nitidam abiens, tenuissimus et laevis; gonidia abbreviato-chroolepoidea; apothecia $\frac{4}{10}$ — $\frac{7}{10}$ mm. lata, laxe sessilia, plana, margine pallidiore tenuissimo integro cincta, demum convexa, pallido-carnea; lamina tota hyalina; paraphyses liberae, apice clavatae; sporae subuniseriatim 8—nae, tantum 4 — $6\ \mu$ longae, 2 — $2\frac{1}{2}\ \mu$ latae, 2—loculares. — Juxta *B. brachysporam* Müll. Arg. locanda et zona thallina nitente insignita est. — Foliicola in monte Bellenden Ker Australiae orientalis: Bailey n. 583.

41. **Cœnogonium simplex** Müll. Arg.; dense caespitosum, adpressum, radiatim filamentosum,

totum flavescenti-albidum, sericeo-nitidulum; filamenta haud fasciculata, 5—8 μ diametro aequantia, fere omnino laevia, extus filamentulis s. hyphulis investientibus destituta (unde nomen), attamen hinc inde strato hypheomoideo pertenui aegre recognoscendo tecta videntur. Apothecia ignota. — Simile *C. interplexo* Nyl., sed affine *C. confervoidi* Nyl. — In pagina superiori foliorum crescens, in monte Corcovado prope Rio-de-Janeiro: E. Ule n. 31. pr. p.

42. **Arthoniopsis** Müll. Arg., gen. nov.; thallus undique crustaceus; sistema gonidiorum phyllactidiale; apothecia gymnocarpica, arthoniomorpha; paraphyses tenuissimae, intricatim connexae; spora hyalinae, transversim divisae. — Ab *Arthonia* non differt nisi systemate alio gonidiorum. — Praeter species novas sequentes hujus loci sunt:

Arthoniopsis aciniformis Müll. Arg.; *Arthonia aciniformis* Stirt. Lich. on Leaves p. 7. — Foliicola in regione amazonica: Prof. Trail.

Arthoniopsis accolens Müll. Arg.; *Arthonia accolens* Stirt. l. c. — In regione amazonica: Trail, prope Rio-de-Janeiro: Glaziou n. 18084 pr. p., Ule n. 23 pr. p., et prope Apiah: Puiggari n. 150.

Arthoniopsis commutata Müll. Arg.; *Arthonia commutata* Stirt. l. c. — In regione amazonica: Trail.

Arthoniopsis suffusa Müll. Arg.; *Arthonia suffusa* Stirt. l. c. — In regione amazonica: Trail.

Arthoniopsis Myristicae Müll. Arg.; *Arthonia Myristicae* Müll. Arg. Lich. Beitr. n. 305. — Foliicola in insulis Philippinis: Cuming.

Arthoniopsis trilocularis Müll. Arg.; *Arthonia trilocularis* Müll. Arg. L. B. n. 304. — Phyllactidiorum cellulæ breviusculæ et minus quam vulgo regulatiter radiantes. — Madagascaria.

Arthoniopsis cyanea Müll. Arg.; *Arthonia cyanea* Müll. Arg. L. B. n. 303. — Prope Bahiam et in insula Cuba.

43. **Arthoniopsis leptosperma** Müll. Arg.; thallus virescenti-argillaceus, tenuissimus, continuus et laevigatus, orbillas exiguae confluentes formans; goni-

dia phyllactidialia, apothecia $\frac{4}{10}$ — $\frac{7}{10}$ mm. lata, fusco-nigra, madefacta fusca, valde deplanata, membranaceo-tenuia, orbicularia, ambitu hinc obtuse angulosa, opaca, intus undique olivaceo-obfuscata; asci oblongo-obovoidei et obovoidei, superne demum pachydermei, 8—spori; sporae 6—9 μ longae, tantum 1 $\frac{1}{2}$ —2 μ latae, obovoideo-cylindrica, regulariter 2—loculares, loculi subaequales. — Extus haud male refert *Arthoniam herpeticam* Mey. ex insulis Philippinis, sed gonidia omnino alia, et dein a proxima amazonica *A. aciniformi* (Stirt.) jam apotheciis majoribus et praesertim ambitu sporarum valide diversa est. — Foliicola prope Apiah in Brasilia meridionali: Puiggari (inter miscell. parcissime).

44. **Arthoniopsis nigratula** Müll. Arg.; thallus argillaceo-flavicans v.-pallidus, tenuissimus, continuus et laevis, orbillas valde exiguae subconfluentes formans; sistema gonidiale phyllactidiale, cellulae vix duplo longiores quam latae; apothecia $\frac{1}{10}$ — $\frac{2}{10}$ mm. tantum lata, subregulariter orbicularia, demum pro parte confluentia et majora composita angulosa formantia, deplanata, siccata nigra aut subnigra, madefacta obscure fumoso-v. fuscescenti-nigricantia; epithecium nigro-fuscum, hypothecium fuscescens; asci globoso-obovoidei, 8—spori; sporae hyalinae, fusiformi-digitiformes, 8—11 μ longae, 3—3 $\frac{1}{2}$ μ latae, regulariter et aequaliter 4—loculares, loculus superior intermediis nec longior nec latior. — Similis *A. accolenti* (Stirt.), sed multo minor, magis nigra et sporis bene diversa. — Foliicola prope Apiah in Brasilia meridionali: Puiggari (sine N°).

45. **Chroodiscus** Müll. Arg., gen. nov.; *Ocellulariae* sect. *Chroodiscus* Müll. Arg. L. B. n. 698; thallus undique crustaceus; gonidiorum sistema phyllactidiale; apothecia gymnocarpica (coccinea), suburceoloria, margine proprio et thallino cincta; paraphyses liberae; sporae hyalinae, transversim divisae. — Characteres omnes ut in *Ocellulariae*, sed gonidia in systemate phyllactidiali e centro radiatim coadunata. — Hujus loci, praeter novas sequentes, est:

Chroodiscus coccineus Müll. Arg.; *Platygrapha coccinea* Leight. Lich. amazon. p. 456, t. 56 fig. 21. — Ad San Gabriel et Barra do Rio Negro Brasiliæ: Spruce.

46. **Chroodiscus rutilus** Müll. Arg.; *Platygrapha rutila* Stir. Lich. on Leaves p. 6; *Ocellularia coccinea* Müll. Arg. L. B. n. 700 (excl. syn. Leight.), ubi descripta est (sed specimen Sprucei n. 2309 excludendum est et *Chr. igneum* refert); *Gyalecta pulchra* Nyl. Lich. Fueg. p. 33. — A primitiva *Platygrapha coccinea* Leight., quam ipse nondum vidi, recedit ascis 8—sporis, tantum 8—13 μ longis et circ. 3 μ latis. — Ad San Gabriel et alibi secus Rio Negro Brasiliae: in Sprucei n. 412 et 700, in insula Guadeloupe in Anthrophori specie: Funk et Schlim, et in Brasilia meridionali prope Apiah: Puiggari n. 1082, 1083, 2733.

47. **Chroodiscus igneus** Müll. Arg.; thallus flavescenti-pallidus, tenuis, laevigatus v. demum rugosinaequalis, nitidulus; gonidia phyllactidialia; apothecia $\frac{2}{10}$ mm. lata, erumpentia, igneo-aurantiaca; margo lobulato-radians, disco ferrugineo-igneo pallidior; lamina coccinea, basi obscurior; asci 8—spori; sporae tantum 6—7 μ longae et 2—2 $\frac{1}{2}$ μ latae, fusiformi-ellipsoideae, utrinque acutiusculae, aequaliter 2—loculares. — A simili *Chrood. rutilo* differt apotheciis laetius igneis, sporis minoribus tantum 2—locularibus et thallo non granuligero. — In fronde *Acrostichi* prope Cachoeiram ad Rio Negro Brasiliae lecta: in Sprucei n. 2309.

48. **Rotula** Müll. Arg., gen. nov.; *Opegraphae* sect. *Rotula* Müll. Arg. L. B. n. 683; thallus undique crustaceus; gonidiorum sistema phyllactidiale; apothecia gymnocarpica, anguloso-orbicularia, margine proprio et thallino cincta; paraphyses connexae; sporae hyalinae, transversim divisae. — Ob sistema gonidiorum generice a *Platygrapha* et *Opegrapha* separanda est. — Hujus loci sunt:

Rotula leucophthalma; *Platygrapha leucophthalma* Müll. Arg. Lich. Parag. n. 166. — In Paraguay: Balansa.

Rotula quadrangula; *Platygrapha quadrangula* Stir. Lich. on Leaves p. 5. — In regione amazonica.

Rotula minima; *Platygrapha minima* Krph. Lich. foliic. p. 12 et Lich. Becc. p. 39. — In insula Borneo.

Rotula radians; *Strigula rotula* Montgn. Cub. p.

140; *Platygrapha rotula* Nyl. Enum. gén. p. 131; *Platygrapha radians* Müll. Arg. Lich. Paraguayens. n. 166.— In America calidore late distributa.

Rotula chlorochroa; *Platygrapha chlorochroa* Krph. Lich. foliic. p. 14 et Lich. Becc. p. 40. — In Borneo: Beccari.

Rotula tumidula; *Platygrapha tumidula* Stirt. Lich. on Leaves p. 5 (1878); *Opegrapha* (sect. *Rotula*) *melanophthalma* Müll. Arg. L. B. n. 684 (1883). — In Brasilia, Madagascaria, Nova Guinea.

Rotula striguloides; *Platygrapha striguloides* Krph. Lich. foliic. p. 15 (1874) et Lich. Becc. p. 41; *Platygrapha praemorsa* Stirt. Lich. on Leaves p. 5 (1878). In regionibus calidioribus late distributa et vulgarior quam *R. radians* Müll. Arg.

49. **Opegraphella** Müll. Arg., gen. nov.; thallus undique crustaceus; sistema gonidiale phyllactidiale s. phycopeltideale, cellularum series dichotomae e centro radientes et in discum coadunatae; apothecia gymnocarpica, lirellina, rima dehiscentia, margine proprio praedita; paraphyses connexae; spora hyalinae, transversim divisae. — A genere *Opegrapha* differt gonidiorum systemate. — Hujus loci sunt:

Opegraphella filicina; *Opegrapha filicina* Montg. Cub. p. 184; Bornet, Recherches sur les goniades des Lich. p. 19. t. 9, Hariot, Note sur le *Cephaleuros* p. 5. — Folicola in insula Cuba, ad Caracas, in Guyanis et nuperius multoties in Brasilia lecta.

Opegraphella Puiggarii; *Opegrapha Puiggarii* Müll. Arg. L. B. n. 159. — In Brasilia meridionali prope Apiahys pluries lecta: Puiggari.

50. **Phylloporina** Müll. Arg., gen. nov., thallus undique crustaceus; sistema gonidiorum phyllactidiale; apothecia angiocarpica, simplicia; paraphyses capillares, non anastomosantes; spora hyalinae, transversim divisae. — A numerosis speciebus generis *Porinae* (Müll. Arg. L. B. n. 644) differt hoc novum genus gonidiis radiatim in membranulam conflatis, nec discreto-chroolepoideis. — Species sequentes omnes epiphyllae sunt.

SECT. 1. **Euphylloporina**; *Porinae* sect. *Phylloporina* Müll. Arg. L. B. n. 651.

Phylloporina bicolor; *Porina bicolor* Müll. Arg. L. B. n. 652. — Brasilia.

Phylloporina epiphylla; *Porina epiphylla* Fée Ess. Suppl. p. 75; Müll. Arg. L. B. n. 63. (Nomen specificum in genere *Phylloporina* minus consonum, attamen non falsum et dein non mutatum.) — Latissime in regionibus calidioribus distributa est.

Phylloporina insperata; *Porina insperata* Müll. Arg. L. B. n. 654. — Malacca.

Phylloporina virescens; *Porina virescens* Müll. Arg. L. B. n. 652. — In Nova Guinea.

SECT. 2. **Segestrinula**; *Porinae* sect. *Segestrinula* Müll. Arg. L. B. n. 655.

Phylloporina microsperma; *Porina microsperma* Müll. Arg. L. B. n. 656. — Brasilia.

Phylloporina leptosperma; *Porina leptosperma* Müll. Arg. L. B. n. 657. — Brasilia.

Phylloporina leptospermoides; *Porina leptospermoides* Müll. Arg. L. B. n. 658. — Brasilia, Cuba, Mexico.

Phylloporina rubentior; *Verrucaria rubentior* Stirz. Lich. on Leaves p. 9; *Porina rubentior* Müll. Arg. L. B. n. 660. — Brasilia.

Phylloporina rubicolor; *Verrucaria rubicolor* Stirz. Lich. on Leaves p. 9; *Porina rubicolor* Müll. Arg. L. B. n. 659. — In tropicis latissime distributa.

Phylloporina limbolata; *Verrucaria limbolata* Krph. Lich. foliic. p. 17 et Lich. Becc. p. 54. — Borneo.

Phylloporina fulvella; *Porina fulvella* Müll. Arg. L. B. n. 661. — Brasilia.

Phylloporina albicera; *Verrucaria albicera* Krph. Lich. foliic. p. 16 et Lich. Becc. p. 53. — Borneo.

Phylloporina rufula; *Verrucaria rufula* Krph. Lich. foliic. p. 20 et Lich. Becc. p. 53. — Borneo.

Phylloporina monocarpa; *Verrucaria monocarpa* Krph. Lich. foliic. p. 19 et Lich. Becc. p. 63. — Singapore.

SECT. 3. **Sagediastrum**; *Porinae* sect. *Sagediastrum* Müll. Arg. L. B. n. 662.

Phylloporina phyllogena; *Porina phyllogena* Müll. Arg. L. B. n. 663. (De nomine specifico hoc in genere idem valet ac de *Phylloporina epiphylla*). — America calidior.

Phylloporina platypoda; *Porina platypoda* Müll. Arg. L. B. n 664. — Brasilia, Cuba, Borneo.

Phylloporina lamprocarpa; *Porina lamprocarpa* Müll. Arg. Pyrenoc. Cubens. p. 402. — Cuba, Brasilia.

Phylloporina nitidula; *Porina nitidula* Müll. Arg. L. B. n. 665. — Paraguay, Brasilia, Venezuela.

Phylloporina Begoniae; *Porina Begoniae* Müll. Arg. L. B. n. 666. — Brasilia.

Phylloporina atro-cœrulea; *Porina atro-cœrulea* Müll. Arg. L. B. n. 667. — Brasilia.

Genève, 12 février 1890.