

# BULLETIN DE L'HERBIER BOISSIER

## LICHENES WILSONIANI

s. Lichenes a cl. Rev F.-R.-M. WILSON

IN AUSTRALIAE PROV. VICTORIA

LECTI, QUOS EXPONIT

Dr J. MÜLLER

TRIB. PARMELIEÆ Müll. Arg. Lich. Paraguay., p. 3.

1. **Parmelia conspersa** v. **stenophylloides** Müll. Arg. Lich. Austr. occid., n. 16; saticola secus Erskine River : Wilson, n. 293.  
— — v. **hypocleista** (Nyl.) f. **isidiosa** Müll. Arg. L. B., n. 575; supra saxa arenacea, ad Kew : Wilson, n. 294, 338.
2. **Phycia subcrustacea** Müll. Arg.; thallus fusco-brunneus, densissime crustaceo-microlobinus; lobuli peripherici paullo radiantes, adpressi,  $\frac{1}{4}$  mm. tantum lati, crenati, reliqui adscendentes et erecti, in thallum suberustaceum crassum compacto-aggregati, omnes brevissimi, lèves, opaci; gonidia vulgaria; apothecia 1-2 mm. lata, sessilia, plana; margo thallinus cum thallo concolor, sat tenuis, integer, demum paullo undulatus; discus fusco-niger, nudus et opacus; epiphycium nigro-fuscum, lamina cæterum cum hypothecio hyalina; asci 4-8-spori; spora fusca, biscoctiformes, 24-27  $\mu$  longæ et 13-15  $\mu$  latæ. — Species juxta affinem *Ph. balaninam* Th. M. Fries Scand., p. 135 locanda est. — Ad saxa inuscosa prope Kilmore : Wilson, n. 758.
3. **Candelaria xanthostigmoides** (Müll. Arg. L. B., n. 498 sub Lecanora); ad corticem *Pruni domesticae*, Victoria : Wilson, n. 694.

TRIB. PELTIGEREÆ Müll. Arg. Lich. Genev., p. 29.

4. **Endocarpiscum Guepini** Nyl. in Flora 1864, p. 487; saxicola, ad Little River : Wilson sine n. (sterile).

## TRIB. PANNARIEÆ Körb. Syst., p. 105.

5. **Parmeliella microphylla** (Sw.) Müll. Arg. Lich. Yatab., n. 64.

## TRIB. PLACODIEÆ Müll. Arg. Lich. Genève, p. 57.

6. **Placodium chrysoleucum** Körb. Par., p. 55; saxicola, in summitate montis Hotham, alt. supramar. 5000 ped. : Wilson, n. 4368.
7. **Placodium radiosum** Mass. Ric., p. 22; ad saxa arenacea, prope Lorne : Wilson, n. 524, 525, et basaltica prope Yarra Bend : Wilson, n. 508.
8. **Placodium fulgens** v. **bracteatum** Müll. Arg. Lich. Pers., n. 44; supra saxa calcarea prope Warrnambool : Wilson, n. 294.
9. **Placodium grandinosum** Müll. Arg.; thallus albus, pulvinularis. pulvinuli discreti v. hinc inde confluentes, 4-4 1/4 mm. lati, hemisphaericí v. majores convexi, omnes suborbiculares et decorticati, in superficie alveoloso-impressi (cristallulis verticalibus demum superne denudatis sat numerosis prædicti); apothecia solitaria, sessilia, 1 mm. lata et minora; margo albus, albo-pulverulentus, integer; discus planus et albido-pruinosis, dein convexus et denudatus, carneo-fuscescens; sporæ 8-næ, 9-10  $\mu$  longæ et circ. 7  $\mu$  latæ, late ovoideæ aut late ellipsoideæ. — Habitu nonnihil ad *Lecanoram cæsio-albam* Körb. accedens, sed thalli pulvinuli margine hinc inde obsolete radiantes *Placodii* speciem indigitant. Species singulari thallo prædicta dein prope *P. albescens* (Hoffm.) Mass. Ric., p. 25 locanda est. — Calcicola prope Buchan : Wilson, n. 355.
10. **Placodium citrinum** (Tayl.) Müll. Arg. L. B., n. 444; supra saxa arenacea prope Kew : Wilson, n. 991.
11. **Amphiloma murorum** v. **obliteratum** Körb. Syst., p. 444; supra saxa arenacea maritima, ad Sandringham : Wilson, n. 333, 4387, et prope Lorne : Wilson, n. 677.  
— v. **bicolor** Müll. Arg.; thalli laciniae obsolete v. exiguae, vitellino-aurantiacæ; apothecia novella albido-pruinosa, evoluta extus excipulo et margine albido-pruinosa, unde discus vitellino-aurantiacus cum margine discolor. — Praeter colorem marginis omnino quadrat cum *A. murorum* v. *lobulato* Körb. — Ad saxa calcarea prope Warrnambool : Wilson, n. 666.
12. **Amphiloma granulosum** Müll. Arg. Lich. Genève, p. 40, t. I, fig. 4; ad saxa calcarea submaritima prope Warrnambool : Wilson, n. 346, 672.

## TRIB. PSOREÆ Müll. Arg. Lich. Paraguay., p. 8.

13. **Psora decipiens** Hoffm. Lichenos., t. 43, fig. 1-3; ad terram supra saxa calcarea, ad Warrnambool : Wilson, n. 127.  
— — v. **albo-marginata** Müll. Arg. L. B., n. 247; cum planta normali prope Warrnambool : Wilson, n. 127.
14. **Psora plicatula** Müll. Arg.; thallus olivaceo-cervinus, minute squamu-lösus; squamulæ adnatæ, exiguae, crenatae et valde plicato-rugosæ et gibbosæ, peripherice haud radiantes at discretæ, reliquæ in thallum suberustaceum subinde reticulatim disruptum congestæ, superficie læves et nudæ; apothecia tantum  $\frac{1}{4}$ - $\frac{1}{3}$  mm. lata, tota nigra, planiuscula, immarginata et demum paullo undulata; epithecium fusco-fulvum: hypothecium fulvescenti-hyalinum; lamina leviter fulvo-rufescens: sporeæ 8-næ, 9-11  $\mu$  longæ, 4-4  $\frac{1}{2}$   $\mu$  latæ, cylindrico-obovoideæ, utrinque obtusæ. — Species gracilis, nulli cognitarum arcte affinis. — Ad saxa arenacea prope Kew : Wilson, n. 339.
15. **Psora dactylophylla** Müll. Arg.; thallus virenti-cervinus: squamulæ laxe imbricatae, ambitu latiusculæ et majusculæ, subtus pallidæ et glabrae, varie palmatim digitato-lacinulatae aut digitatim crenatae, lacinulae lineares, simplices aut iterum divise et summo apice soredioso-albicantes; apothecia  $\frac{2}{3}$  mm. lata aut minora, jam ab origine nigra aut fusco-nigra, opaca et nuda, immarginata, mox convexa; lamina et hypothecium subhyalina aut hyalino-obscurata; sporeæ 8-næ, 10-13  $\mu$  longæ et 5-6  $\mu$  latæ, elongato-obovoideæ. — Thallus fere ut in brasiliensi *P. polydactyla* Müll. Arg., sed apothecia nigra, intus aliter colorata et sporeæ subduplo majores et ambitu validiores. — Ad ligna emortua, Mt Macedon : Wilson, n. 150.
16. **Thalloidima microlepis** Müll. Arg.; thallus minute adnato-squamosus, obscure glauco-viridis, nudus; squamæ minute rosulares, irregulariter orbicularis, 1 mm. latæ et minores, ambitu inciso-lobulatae, planæ et tenues, hinc inde subimbricatae, vulgo centro monocarpicæ; apothecia  $\frac{1}{2}$  mm. lata et minora, nigra, adpressa, plana et tenuia, tenuiter nigro-marginata, nuda; epithecium et hypothecium nigro-fusca; sporeæ 8-næ, hyalinæ, 10-12  $\mu$  longæ et 6-7  $\mu$  latæ, late ellipsoideæ, 2-loculares. — Prope *Th. cæruleo-nigricans* Poëtsch locandum, a quo colore et forma squamarum et sporis aliisque supra indicatis differt. — Ad saxa arenacea prope Kew : Wilson, n. 810.
17. **Thalloidima cæruleo-nigricans** (Lightf.) Poëtsch Aufzähld., p. 212; ad saxa calcarea prope Warrnambool : Wilson, n. 714.
18. **Thalloidima (s. Toninia) leucinum** Müll. Arg.; thallus albus, subconfertim squamulosus: squamulæ apotheciis paullo majores, convexæ,

pulverulenta ambitu obsolete lobata; apothecia sessilia, novella extus cæsio-pulverulenta, mox nudata et opaco-nigra, plana,  $1\frac{1}{2}$ - $4\frac{1}{5}$  mm. lata, anguste et prominenter marginata; discus planus; epithecium virenti-nigrum, hypothecium nigro-fuscum; lamina superne virens; ascii 8-spori; sporæ  $18\text{-}22$   $\mu$  longæ,  $3\frac{1}{2}$ - $4$   $\mu$  latæ, digitiformes, utrinque obtusæ, 4-loculares. — Ad *Th. cæruleo-nigricans* Auct. accedit, sed squamæ albæ et sporæ 4-loculares. A simili *Th. geoleuco* Müll. Arg. similiter sporis differt. — Ad saxa calcarea ad Warrnambool : Wilson, n. 770.

19. ***Thalloidima* (s. *Toninia*) *conglomerans* Müll. Arg.; thallus pallide cervinus, demum expallens, squamułosus; squamułae adnatæ, circ. 1 mm. late et minores, lobatae et subundulatae, nudæ; apothecia  $\frac{1}{4}$ - $\frac{1}{3}$  mm. lata, nigra, crassa, obsolete marginata, mox proliferatione in glomerulos valde polycarpicos 2-3 mm. latos crassos opaco-nigros abeuntia, apothecia partialia glomerulorum arcte connata, alte convexa et immarginata; epithecium olivaceo-nigricans; hypothecium nigro-fuscum, crassum; sporæ 8-næ,  $16\text{-}22$   $\mu$  longæ, 6-8  $\mu$  latæ, late fusiformes, 2-4-loculares. — Prope neocaledonicum *Th. botryophorum* et americanum *Th. massatum* Müll. Arg. inserendum est. Etiam brasiliensi *Th. conferto* Müll. Arg. accedit thallo et apotheciis, sed sporæ et hypothecium differunt. — Ad saxa calcarea prope Warrnambool : Wilson, n. 771.**

### TRIB. LECANOREÆ Müll. Arg. Lich. Socotr., p. 359.

20. ***Callopisma cinnabarinum* (Ach.) Müll. Arg. L. B., n. 333; saxecola prope Litydale : Wilson, n. 997.**  
 — — v. ***opacum*** Müll. Arg. L. B., n. 333; supra saxa maritima ad Sandringham : Wilson, n. 1030.
21. ***Callopisma ochrochroum* Müll. Arg.; thallus ochraceo-argillaceus, aspero-glebosus, glebulæ conferta, valde acuto-angulosæ, subpulverulentæ; apothecia  $\frac{1}{3}$  mm. lata, pallide gilvo-flaviantia, sessilia, e plano demum leviter convexa, cito margine tenuissimo integro cum thallo concolore cincta, dein immarginata, opaca; sporæ 8-næ,  $10\text{-}12$   $\mu$  longæ,  $3\text{-}5$   $\mu$  latæ, vulgo anguste fusiformi-ellipoideæ. — Species modesta: thallus margine effusus, peculiariter scaber, at scabrities pro parte e substrato, et e parte tantum ex ipsis glebulis pendet; apothecia exigua, inter pallidum et gilvo-aurantiacum quasi medium tenent. — Ad saxa arenacea prope Sandringham : Wilson, n. 650.**
22. ***Callopisma aurantiacum* Mass. Syn. Blasten., p. 9; corticola prope Sandringham : Wilson, n. 282, ad Marida in ramulis *Juglundis* : Wilson, n. 383 pr. p.; ad Camperdown : Wilson, n. 826; ad Warrnembool : Wilson, n. 669.**

- Callopisma aurantiacum** v. **dealbatum** (Fr.) Müll. Arg. L. B., n. 106; corticola, ad Warrnambool : Wilson, n. 669 pr. p.
- — v. **holocarpum** Mass. L. Blasten., p. 40; ad ramulos *Mali* in Gippsland : Wilson, n. 664.
- — v. **subgilvum** Müll. Arg.; thallus depauperatus, obscure cinerascens, hinc inde tamen vestigia flava ostendens; apothecia mox obscure gilva, margo ex aurantiaco in ferrugineo-fuscum abiens; discus e gilvo fuscescens. — Ad corticem Mimosarum montis Macedon : Wilson, n. 390, 716.
- — v. **flavo-virescens** Mass. L. Blasten., p. 9; ad saxa calcarea, Warrnambool : Wilson, n. 676, et basaltica prope Camperdown : Wilson, n. 826 et 668.
23. **Callopisma cerinum** Mass. Syn. L. Blasten., p. 13; corticola, ad truncos *Banksiae serratae*, prope Warrnambool : Wilson, n. 387, et prope Sandringham : Wilson, n. 388, 390.
- — v. **obscuratum** (Nyl.) Müll. Arg. L. ægypt. Suppl. I, n. 21; ad truncos prope Terang : Wilson, n. 389.
24. **Callopisma pyraceum** (Th. M. Fr.) Müll. Arg. L. Ægypt. Suppl. I, n. 22; corticola ad Warrnambool : Wilson, n. 665; ad Marida : Wilson, n. 383 pr. p.; in Mt Macedon : Wilson, n. 574; prope Kew : Wilson, n. 686 et ad Terang : Wilson, n. 684; et dein ad saxa calcarea, Buchan caves : Wilson, n. 667, Warrnambool : Wilson, n. 685, 704, et ad saxa arenacea prope Kew : Wilson, n. 293.
- — v. **pyrithroma** (Nyl.) Müll. Arg. L. Ægypt., n. 25; supra saxa calcarea prope Warrnambool : Wilson, n. 675.
25. **Callopisma fulvum** (Schweinitz) Müll. Arg. L. B., n. 1481; ad radices denudatus *Eucalypti* prope Kew : Wilson, 680.
26. **Lecania subsquamosa** Müll. Arg. L. Sebastianop., n. 7; ad saxa arenacea prope Kew : Wilson, n. 438, et prope Lorne seens Erskine River : Wilson, n. 360.
27. **Lecania** (s. **Maronea**) **constans** (Nyl. Classif. 2, p. 199) Müll. Arg.: corticola ad Lilydale : Wilson, n. 351.
28. **Lecanora sordida** v. **glaucoma** Th. M. Fr. Scand., p. 246, f. **obscurata** Müll. Arg.; thallus plumbeo-obscuratus; reliqua non differunt. — Ad sava arenacea prope Kew : Wilson, n. 348.
- — v. **subcarnea** Th. M. Fries Scand., p. 246; saxicola, Mt Macedon : Wilson, n. 796; in Mt William : Wilson, n. 796 et etiam on conglomerata rock montis Macedon : Wilson, n. 321.
29. **Lecanora sphærospora** Müll. Arg. L. Austral. occid., n. 37; supra saxa calcarea ad Warrnambool : Wilson, n. 946 pr. p.
30. **Lecanora subfusca** v. **bryonta** (Ach. Meth., p. 167 sub *Parmelia*); supra cæspites Graminum destructorum prope summitatem montis Hotham : Wilson, n. 1050.

31. **Lecanora cæsio-rubella** Ach. Univ., p. 366; corticola, prope Warrnambool : Wilson, n. 365; in Mt Macedon : Wilson, n. 312.
32. **Lecanora lineolata** Müll. Arg.; thallus virescenti-albus, tenuissimus, creberrime disperso-glebulosus, glebulæ late lineares, circ.  $\frac{1}{10}$  mm. latae, suborbicularis et 2-5-plo longiores quam latæ, rectæ et varie curvatae v. etiam subastroideo-confluentes, vulgo sub lente striolas latas intricatas efformantes : apothecia  $\frac{3}{4}$ - $1\frac{1}{4}$  mm. lata, sessilia, plana, tenuiter albo-marginata; margo albidus, primum crassus et pulverulentus, demum tenuis et vix prominens; discus fulvo-carneus, planus, nudus; lamina tota hyalina; spore 8-nae, circ.  $18 \mu$  longæ et  $11-12 \mu$  latæ, ellipsoideæ. — Juxta *L. cæsio-rubellam* Ach. locanda est, a qua jam apotheciorum disco magis fulvo et dein forma singulari thalli diversa est. — Corticola in Mt Ma'cedon : Wilson, n. 374.
33. **Lecanora fibrosa** Müll. Arg. L. Afr. or. germ.: truncicola prope Kew : Wilson, n. 617.
34. **Lecanora umbrina** Mass. Ric., p. 10: ad saxa basaltica prope Lorne : Wilson, n. 361, et arenacea prope Kew : Wilson, n. 1439.
35. **Lecanora lacteola** Müll. Arg.; thallus lacteo-albus, tenuissimus, minute depresso-glebulosus; glebulæ subconfertæ, in hypothallo albo demum evanescentes; apothecia  $\frac{1}{2}$ -1 mm. lata, plana, tenuia, adpressa: margo albus, tenuis et integer, demum undulatus et pulverulentus, prominulus; discus fusca, dein brunneus, planus et nudus; epithecium hyalino-fulvescens v. obscurius, reliqua laminæ hyalina; spora 8-nae, ellipsoideæ,  $7-8 \mu$  tantum longæ et  $4-5 \mu$  latæ. — Affinis est *L. Hageni* Ach. et *L. umbrina* Mass., a quibus colore thalli et minutie sporarum differt. — Ad cortices levigatos Juglandis prope Camperdown : Wilson, n. 333.
36. **Lecanora dispersa** Nyl. Lapp. or., p. 481; ad saxa calcarea prope Kew : Wilson, n. 358, et arenacea prope Sandringham : Wilson, n. 363.
37. **Lecanora Flotoviana** Körb. Syst., p. 146; supra saxa calcarea ad Warrnambool : Wilson, n. 464.  
— v. **corticola** Lahm in Körb. exs., n. 338; corticola prope Maffra in Gippsland : Wilson, n. 654.
38. **Lecanora cæsio-alba** Körb. Par., p. 82; supra saxa calcarea prope Warrnambool : Wilson, n. 344, 464.
39. **Lecanora solenospora** Müll. Arg.: thallus albidus, tenuis, levigatus et tenuiter depresso-granularis, cæterum continuus; gonidia globosa; apothecia  $\frac{2}{3}$ - $\frac{3}{4}$  mm. lata, ex erumpente sessilia, crassa, margine turgido incurvo primum integro dein autem intus crenato et sphinctriño-sulcato albido praedita; margo interior tenuis circumscissus et demum nigro-fuscus; discus paulo depresso, planus, nigro-fuscus et leviter glauco-pruinosus, superficie scabridus; epithecium fulvescens, lamina cæterum hyalina; paraphyses facile segregandæ: asci 8-spori;

sporæ in ascis modice spiraliter contortæ, circ. 25  $\mu$  longæ, 3-6  $1\frac{1}{2}$   $\mu$  latæ, fusiformes, utrinque obtuse, lunatim arcuatae. — Prope *L. rhabdotam* Krplh. Lich. Warming., p. 382 inserenda est, sed ab omnibus forma singulari sporarum eximie differt. — Corticola prope Warburton : Wilson, n. 463.

40. ***Lecanora coarctata* v. *elacista*** Schær. Enum. p. 76: conglomerate rocks in Mt Macedon : Wilson, n. 843; ad saxa arenacea prope Lorne : Wilson, n. 4047.
41. ***Lecanora frustulosa*** Nyl. Scand. p. 166: supra saxa granitica in Glenmaggia : Wilson, n. 393, et in Yongyangs : Wilson, n. 400.
42. ***Lecanora Wilsoni*** Müll. Arg.: thallus tenuiter tartareus, rimoso-v. demum disrumpito-areolatus, pallide flavus, areolæ planæ, ruguloso- et subrimuloso-asperæ; apothecia  $1\frac{1}{3}$ - $4\frac{4}{5}$  mm. lata, sessilia, plana, margine cum thallo concolore crassiusculo et integro non prominulo cincta; discus livido-v. olivaceo-subfuscus. planus et nudus; lamina apice pallide fulvescens, cæterum hyalina: sporæ 8-næ, 8-10  $\mu$  longæ, 4  $1\frac{1}{2}$ -6  $\mu$  latæ, ovoideæ. — Juxta proximam *L. glauco-deam* Nyl. Prodri. Nov. Gran. p. 544. inserenda est, ubi thallus granulosns et minus flavidus. — Ad saxa silacea, Upper Maffra in Victoriae regione Gippsland : Rev. F. R. M. Wilson, n. 362.
43. ***Lecanora perminuta*** Müll. Arg.: thallus obsoletus; apothecia  $12\text{-}18/100$  mm. tantum lata, adpressa, plana, sicca nigra v. fusco-nigra, madefacta umbrino-nigricantia, margine obsoleto et obsolete pallidiore cincta; discus nudus, demum convexus; epithecium brunnescens, lamina cæterum cum hypothecio hyalina; asci 8-spori; sporæ solum 6-8  $\mu$  longæ et 4-5  $\mu$  latæ, ellipsoideæ. — Subsimilis *L. symmicta* v. *sepincola* Tb. M. Fries. sed apothecia et sporæ multo minores et apothecia magis nigrata. — Ad ligna vetusta Eucalypti in Mt Macedon : Wilson, n. 1691.
44. ***Lecanora glaucoflavens*** Müll. Arg.: thallus glauco-flavens, tenuissimus, e continuo rimulosus et demum granuloso-rimosus, margine effusus; apothecia  $1\frac{1}{3}$ - $1\frac{1}{2}$  mm. lata, plana v. subplana, adpressa, demum margine relevata, tenuiuscula; margo tenuis, integer, demum subundulatus, disco carneo pallidior; discus nudus v. plus minusve glanco-pruinosus; epithecium fulvo-flavicans, lamina cæterum hyalina; sporæ 8-næ, ovoideæ et ellipsoideæ, 18-22  $\mu$  longæ, 9-11  $\mu$  latæ. — Affinis brasiliensi *L. flavidulae* Müll. Arg., ubi thallus alius. — Corticola prope Warrnambool : Wilson, n. 457, 741.
45. ***Lecanora carneo-lutescens*** Nyl. in Flora 1858, p. 380; corticola prope Cunningham : Wilson, n. 377.
46. ***Lecanora* (s. *Aspicilia*) *viridescens*; *Pachyospora viridescens* Mass. Ric. p. 45; super saxa basaltica, Cobden : Wilson, n. 335, et arenacea prope Lorne : Wilson, n. 527.**

47. **Lecanora** (s. **Aspicilia**) **calcarea** [v. **cæsio-alba** (Körb.) Müll. Arg. L. Austral. occid. m. 38; ad saxa calcarea prope Warrnambool : Wilson, n. 342, 801, 824, 1051, et supra saxa arenacea maritima prope Lorne : Wilson, n. 526.
48. **Lecanora** (s. **Aspicilia**) **Hoffmanni** Müll. Arg. L. Argentin. n. 34 : ad saxa basaltica, Yarra Bend : Wilson, n. 340, et arenacea prope Kew : Wilson, n. 356.
49. **Lecanora** (s. **Aspicilia**) **macrosporoma** Müll. Arg.; thallus albidus, crassitie mediocris, continuus, undique creberrime isidio tenuissimo subgranuliformi et concolore obtectus; apothecia circ. 1 mm. lata. margine thallino crasso leviter tantum prominente et dense isidiosulo prædita; discus fusco-niger, planus, paullo depresso et nudus; epithecium rufo-nigricans; lamina rufescens; hypothecium pallidius rufescens; paraphyses conglutinatae; asci 8-sporæ; sporæ imbricatim 4-seriales, magnæ, 38-50  $\mu$  longæ et 18-22  $\mu$  latæ, elongato-ovoideæ. — Quandam analogiam offert cum *L. atra* Ach., sed thallus fere omnino isidiosus, apothecia innata et sporæ magnæ; minus accedit ad species sectionis *Ochrolechia*, et melius inter species sectionis *Aspicilia* prope *L. mutabilem* Ach. locanda est, sed ab omnibus notis valde distincta est. — Corticola, Lakes Entrance : Wilson, n. 366.
50. **Lecanora** (s. **Ochrolechia**) **pallescens** Fr. L. Europ.. p. 132: supra saxa arenacea prope Lorne : Wilson, n. 322.
51. **Rinodina metabolica** Anzi Cat., p. 53; corticola, ad ramos *Pini* prope Malvern : Wilson, n. 690, *Juglandis* prope Camperdown : Wilson, n. 694, et *Hymenantheræ Banksii* circa Maffra : Wilson, n. 698.  
— v. **phæocarpa** Müll. Arg. L. Paraguay., n. 84; corticola prope Malvern : Wilson, n. 690 pr. p.
52. **Rinodina obscura** Müll. Arg.; thallus cinereo-fuscus, tenuissimus. subtiliter depresso-verruculosus v. sublævis; apothecia  $\frac{6}{10}$  mm. lata et minora, sessilia, plana, tenuiter marginata, margo cum thallo concolor. demum cinereo-nigricans; discus niger, semper planus et nudus; epithecium nigro-fuscum; hypothecium undique hyalinum; sporæ 8-næ. 13-16  $\mu$  longæ, 6-7  $\mu$  latæ, oblongo-ellipsoideæ. — Apothecia evoluta similia iis *Buellia parasema* Auct., sed thallus et hypothecium omnino differunt et margo thallinus sub lente semper facile recognoscendus. etiamsi apothecia prima fronte lecideina. Juxta *R. metabolicam* Anzi inserenda est. — Corticola, ad Oakleigh : Wilson, n. 745.
53. **Rinodina colobinoides** (Nyl.) Müll. Arg. Lich. Ægypt., n. 83 obs.; ad truncos *Banksiae serratae* in maritimis Victoriae : Wilson, n. 368.
54. **Rinodina pachyspora** Müll. Arg.; thallus cinereus, mox fusco-obscuratus, dense diffracto-areolatus; areolæ angulosæ, planisculæ; apothecia  $\frac{2}{3}$  mm. lata et minora, in areolis solitaria, primum innata, dein adpresso-sessilia, plana, evoluta tota fusco-nigra, sed margo junior

distincte thallinus, tenuis et prominens, semper integer; epithecium fulvo-fuscum; lamina cum hypothecio hyalina; sporæ 8-næ, 2-loculares, 20-23  $\mu$  longæ, 13-15  $\mu$  latæ, ampliato-ellipsoideæ, utrinque latisime obtusæ, medio non zonatim obfuscatae. — Prope *R. diffractam* Müll. Arg. disponi potest. Thalli areolæ nondum obscuratae similes sunt iis *Lecideæ spilotæ* Fr., sed mox obfuscatae evadunt similiter ac margo apotheciorum, quæ demum nigro-lecideina. Interior sporarum et hypothecium et consistentia mollis partium cæterum sunt omnino rinodinacea. — Ad saxa arenacea prope australiense Kew. in prov. Victoria: Wilson, n. 1385.

55. ***Rinodina thiomela* (Nyl.) Müll. Arg. L. B., n. 336 obs.; ad saxa basaltica secus Little River: Wilson, n. 462.**
56. ***Diploschistes scruposus* Norm. Conat., p. 20; *Urceolaria scruposa* v. *vulgaris* Schær. Enum., p. 89; supra saxa schistosa, in Mt Hotham: Wilson, n. 359, et Glenmaggia: Wilson, n. 499.**  
 — — v. *cretaceus* Müll. Arg. L. Pers., n. 42; supra saxa muscosa ad Warrnambool: Wilson, n. 343.  
 — — v. *bryophilus*; *Urceolaria scruposa* v. *bryophila* Ach. Meth., p. 148: prope Kew in thallo *Cladoniæ*: Wilson, n. 504.  
 — — v. *arenarius*; *Urceolaria scruposa* v. *arenaria* Ach. in Schær. Spicil., p. 75; ad terram sabulosam prope Kew: Wilson, n. 497; supra saxa arenacea prope Kew: Wilson, n. 498, 500; in vertice saxonum e mare emergente ad Cheltenham: Wilson, 503; ad saxa basaltica prope Cobden: Wilson, n. 502, 506; et demum ad Bluestone Rocks prope Yarra Bend: Wilson, n. 504.
57. ***Diploschistes actinostoma* Zahlbr. in Hedwigia, 1892, p. 34; *Limboria actinostoma* Schær. Enum., p. 87; ad saxa basaltica. Yarra Bend: Wilson, n. 505, et Little River: Wilson, n. 510, 511, nec non ad saxa arenacea prope Kew: Wilson, n. 507.**
58. ***Pertusaria* (s. *Lecanorastrum*) *erythrella* Müll. Arg.; thallus glauco-albus, tenuissimus, cartilagineo-firmus et subnitidus, paullo rugulosus et demum varie rimosus, in peripheria adplanato-evanescens, zona vix distincta cinctus: gonidia globosa, circ. 10-12  $\mu$  lata; scutellæ spuriæ variolosæ  $\frac{3}{5}$  mm. tantum latae, planæ, margine thallino tenui prominente cinctæ et farinulentæ, dein sensim conyexiores et rubescentes simulque papilloso-hirtæ, demum alte hemisphaericae et nudato-læves et læte fulvo-rubræ. — Juxta *P. commutata* Müll. Arg. et *P. multipunctata* Nyl. inserenda est, at apothecia hucusque ignota sunt. Pseudo-apothecia demum *Biatorum* alte convexam et læte tinctam simulant. — Corticola, Lakes Entrance: Wilson, n. 999.**
59. ***Pertusaria anarithmetica* Müll. Arg. L. Costaric., n. 77; truncicola. Doncester: Wilson, n. 470.**

60. **Pertusaria** ( $\S$  **Pustulatæ**) **nitidula** Müll. Arg.; thallus albus, tenuissimus, continuus et laevis, margine effusus; verrucæ  $\frac{3}{4}$ - $1\frac{1}{3}$  mm. latæ, hemisphærico-convexæ, circumcirca sensim in thallum abeuntes, apice obtusæ, laeves et nitidæ, circ. 3-5-carpicæ; ostiola nigra, in apice verrucarum conferta v. confluentia, haud prominula nec impressa: sporæ in ascis 4-8-næ, saepius tamen 6-næ, 1-serialis, circ. 40-45  $\mu$  longæ, ellipsoideæ, intus non costulatæ. — Cum proxima costaricensi *P. anarithmetica* Müll. Arg. fere congruit, sed thallus laevis est et verrucæ sunt regulares et nitidæ. — Corticola, Victoria : Wilson, n. 468 pr. p.
61. **Pertusaria pustulata** Duby Bot. gall. p. 673, var. **trimera** Müll. Arg., sporæ in ascis 2-4-næ, saepissime tamen 3 (nec regulariter 2-næ), circ. 70-90  $\mu$  longæ, intus laeves. — Corticola, prope Doncaster : Wilson, n. 474, pr. p., et 483; ad Oakleigh : Wilson, n. 473, ad Sale : Wilson, n. 481.
62. **Pertusaria melaleuca** Duby Bot. gall., p. 673, v. **trispora** Müll. Arg., sporæ in ascis 2-3-natae. Reliqua cum specie congraunt. — Corticola, Kew : Wilson, n. 474, pr. p., 482.
63. **Pertusaria leioplana** v. **octospora** Nyl. Scand., p. 182; corticola variis locis prope Kew et alibi in Victoria : Wilson, n. 468, pr. p., et 746, pr. p.
64. **Pertusaria** ( $\S$  **Graphicæ**) **graphidioides** Müll. Arg.; thallus flavescenti-albidus, tenuissimus, laevis (in substrato spurie alveolato-inæqualis), margine effusus, superficie cartilagineo-firmus; verrucæ  $\frac{3}{4}$ - $1\frac{1}{4}$  mm. latæ, primum orbiculari-hemisphæricæ et basi subconstrictæ, mox antem subparallele oblongatae et duplo et ultra longiores quam latæ et hinc inde confluentes, subgibbosæ, polycarpicæ; ostiola nigra primum punctiformia, haud impressa, demum impressa et graphidiformi-linearia, simplicia aut ramulosa; sporæ (2-6) 4-næ, 50-70  $\mu$  longæ, ellipsoideæ, intus non costulatæ. — Prima fronte satis ad *P. leioplacum* Schær. accedit, sed verrucæ demum elongatae, minus turgidae, ostiola demum impressa et elongata. — Insuper dein japonicam *P. melanophthalma* et ceylonensem *P. impressulam* Müll. Arg. fere refert, sed ostiolis demum graphino-elongatis statim recedit. A proxima neo-zelandica *P. graphicæ* Knight distinguitur verrucis minus truncato-depressis et ostiolis multo gracilioribus. — Ad truncos emortuos Cerasi ad Doncaster : Wilson, n. 492.
65. **Pertusaria aberrans** Müll. Arg.; thallus albus, mediocris, rugulosus, demum rimulosus, superficie firmus; verrucæ 4 mm. latæ, leviter emergentes, ambitu paullo irregulares, depresso-convexæ, late truncato-obtusæ, monocarpicæ; ostiolum  $\frac{1}{4}$ - $\frac{1}{2}$  mm. latum, discum *Arthonia polymorphae* Ach. simulans, nigrum et nudum, planum, ex orbiculari varie angulosum et oblongatum; epithecium cæruleo-nigricans; lamina

superne cærulescens; ascæ 1-2-3-spori; sporæ 60-85  $\mu$  longæ et 30-35  $\mu$  latæ, intus non costulatæ. — Species valde peculiaris, nulli nisi patagonicæ *P. arthoniariae* Nyl. (Fueg., p. 40), affinis est, attamen ab ea thallo et verrucis et sporis abundanter diversa est. — Corticola, Lakes Entrance : Wilson, n. 1317.

66. **Pertusaria** (§ Irregulares) **diffracta** Müll. Arg.; thallus flavescenti-albus, tenuiter tartareus, margine effusus, e rimulo demum diffracto-areolatus: areolæ acute angulosæ, planæ et læves; verrucæ circ. 2 mm. latæ, convexæ, ambitu irregulares; basi sensim in areolam abeuntes, superficie læves et sparsim pluri-ostiolatae; ostiola nigra, demum ampliora et apicem verrucarum paullo nigrifacientia; lamina superne olivacea, cæterum hyalina: sporæ in ascis linearibus apposite uniseriatis 8-næ, ellipsoideæ, circ. 35  $\mu$  longæ et 30  $\mu$  latæ, intus haud costulatæ. — Extus affinem neo-zelandicam *P. lacvatam* Müll. Arg. simulat, sed thallus magis diffractus et sporæ (similiter 8-næ in ascis) duplo minores sunt. — Ad saxa arenacea, prope Lorne, Victoria : Wilson, n. 4055.
67. **Phlyctella Wilsoni** Müll. Arg.; thallus cæsio-albus, tenuissimus, lævis; gonidia globosa, circ. 10  $\mu$  lata; apothecia in prominentiis thalliniis oblongatis sepe paullo curvulis et pulveraceo-efflorescentibus sita, adpresso-subinnata, orbicularia,  $1\frac{1}{2}$ - $\frac{3}{4}$  mm. lata, margine obscuriore integro cincta; discus planus, pruina cæsio-alba obtectus, demum denu-datus et pallide fuscescens v. aquoso-fuscidulus; peritheciū obscure olivaceum: sporæ in ascis 8-næ, 40-60  $\mu$  longæ,  $4\frac{1}{2}$ -7  $\mu$  latæ, anguste fusiformes, vulgo sigmaideo-curvatae et in ascis subcontorta, 6-8-locularis. — A proxima *Ph. abstersa* Krplh. v. *pallidula*, s. *Ph. egentiore* v. *pallidulae* Nyl. L. Nov. Zel., p. 73, paullo distat apotheciis duplo et ultra majoribus. — Corticola in umbrosis montis Macedon : Wilson, n. 830.

### TRIB. GYALECTÆ Müll. Arg. Lich. Paraguay., p. 12.

68. **Secoliga leptospora** Müll. Arg.; thallus cinereo-albus, tenuissimus, inaequaliter granuli-et glebuliger, granula et glebulæ subglobosa, superficie lævia; apothecia semiemersa, profunde urceolaria,  $\frac{2}{5}$  mm. lata et minora, cum thallo concolora; margo integerrimus et acutus et lævis; discus defossus, obscurus; peritheciū olivaceo-fuscum, valde tenue, basi deficiens, superne perithecio crasso thallino centro late hiante superatum; lamina vitro-hyalina; sporæ in ascis angustis 6-8-næ, tenuiter digitiformi-fusiformes, utrinque subacutæ, 11-14  $\mu$  longæ, tantum  $2\frac{1}{2}$   $\mu$  latæ, more *Patellariarum* 3-septatae. — Apothecia illa *Secoligæ geoiceæ* Arn. simulant, sed minora, et sporæ valde tenellæ sunt. — Corticola. Beaconsfield : Wilson, n. 522.

## TRIB. LECIDEEÆ Müll. Arg. Enum. L. Genève, p. 56.

69. **Lecidea** (s. **Biatorella**) **conspersa** Fée. Ess., p. 108, t. XXVII, fig. 4; corticola, ad Cunningham : Wilson, n. 271, at the Lakes in Gippsland : Wilson, n. 370.
70. **Lecidea** (s. **Biatoria**) **cinnabarina** Sommerf. Suppl., p. 170 ; corticola, in Mt Macedon ad corticem Malii : Wilson, n. 800 ; ad Lakes Tyers in cortice *Acacia* : Wilson, n. 760, et prope Askleigh : Wilson, n. 688.
71. **Lecidea** (s. **Biatoria**) **flexuosa** (Fr.) Nyl. L. Paris. n. 53 ; ad ligna emortua prope Kew : Wilson, n. 616.
72. **Lecidea** (s. **Biatoria**) **pruinosa** Müll. Arg. L. B., n. 505 ; ad corticem *Acaciarum*, Mt Macedon : Wilson, n. 613.
73. **Lecidea** (s. **Biatoria**) **minutula** Müll. Arg. ; thallus olivaceo-virens, tenuissimus, discreto-v. subdiscreto-granularis; granula surborbicularia, circ.  $\frac{8}{100}$  mm. lata, hinc inde conglobata ; apothecia  $\frac{3}{10}$  mm. lata, sessilia, tenuiter nigro-marginata ; discus obscure fuscus et nudus : epithecium fuscum ; lamina cum hypothecio hyalina ; paraphyses facile liberæ, apicæ capitatae ; sporæ 8-næ, ellipsoideæ et obovoideæ. 7-10  $\mu$  longæ et 4-5  $\mu$  latæ. — Prope *L. lividulam* Müll. Arg. inserenda est. — Ad squamas corticales Platani prope Kew : Wilson, n. 612.
74. **Lecidea** (s. **Biatoria**) **xylogena** Müll. Arg. ; thallus flavescenti-cinerascens, tenuissime granuloso-leprosus ; granula subglobosa et multiformia, tantum  $\frac{2-4}{100}$  mm. lata, copiosa, stratum pertenue subfarinulento formantia ; apothecia  $\frac{3}{10}$  mm. lata, plana, tenuia, tenuissime nigro-marginata ; discus planus, fuscus, obsolete caesio-pruinosus, madefactus livido-pallescens ; epithecium olivaceum ; hypothecium hyalinum ; paraphyses facile liberæ ; sporæ 8-næ, ellipsoideæ, tantum 6-7  $\mu$  longæ et 4-5  $\mu$  latæ. — Juxta *L. tenella* et *L. lividulam* Müll. Arg. locanda et minutie sporarum insignita est. — Ad ligna emortua, Victoria : Wilson, n. 1339.
75. **Lecidea** (s. **Biatoria**) **tenella** Müll. Arg. ; thallus maculam griseofuscam, subrugulosam formans ; apothecia  $\frac{1}{5}-\frac{1}{4}$  mm. lata et minora, adpresso-sessilia, plana et tenuia, tenuissime marginata ; discus planus, madefactus distincte pallens et sublividus ; epithecium et pars superior laminae obscure virentia ; hypothecium hyalinum ; paraphyses facile liberæ, tenues ; spora 8-næ, ellipsoideæ, 8-11  $\mu$  longæ et 5-6  $\mu$  latæ. — Affinis est *L. leptolomoides* Müll. Arg., sed thallus alius, apothecia minora et subnigra, et *Lecidea lividula* Müll. Arg. differt thallo et sporis majoribus. — Corticola, ad truncos Pruni domesticæ, Oakleigh : Wilson, n. 628, et Boroondara : Wilson, n. 929.
76. **Lecidea** (s. **Biatoria**) **leptolomoides** Müll. Arg. ; thallus albido-cinereus, maculiformi-tenuissimus, mox evanescens ; apothecia  $\frac{1}{2}-\frac{3}{4}$  mm,

lata, plana, tenuia, nigrescenti-fusca et nuda, tenuissime subnigro-marginalata, demum leviter convexa; epithecium fuscidulum v. fuscum, lamina cæterum cum hypothecio undique hyalina; paraphyses liberæ, apice capitato-incrassatae; sporæ 8-næ, ellipsoideæ et obovoideæ, 10-12  $\mu$  longæ et 6-7  $\mu$  latæ. — Apothecia similia iis *L. leptolomatis* Müll. Arg., sed minora et tota magis nigrescenti-obscurata et sporæ minores. A proxima *L. lividula* Müll. Arg. distat thallo et sporis minoribus, et similis *L. permutable* Müll. Arg. differt apotheciis crassioribus, magis fusco-rufulis et novellis validius marginatis. — Corticola, ad truncos *Ailanthi* hortorum, ad Sale : Wilson, n. 631.

77. **Lecidea** (s. **Biatora**) **leptoloma** Müll. Arg. L. B., n. 347; corticola, ad Warburton : Wilson, n. 602, 457.
78. **Lecidea** (s. **Biatora**) **intervertens** Nyl. Lich. Nov. Zeland., p. 79; corticola ad Warburton (sporæ quidem haud visæ, sed reliqua extus intusque bene quadrant) : Wilson, n. 604.
79. **Lecidea** (s. **Biatora**) **aspidula** Krph. Beitr. Lich. Flora. Austral., n. 415; supra saxa porphyritica ad Beaconsfield : Wilssn, n. 779, et in Mt Macedon : Wilson, n. 661; ad saxa granitica Youyang : Wilson, n. 458, et prope Kilmore : Wilson, n. 654.
80. **Lecidea** (s. **Biatora**) **aspera** Müll. Arg.; thallus virens et dein obscuratus, aspero-glebulosus; glebulæ confertæ, exiguae, crassulæ, varie inciso-lobulatæ et aspero-angulosæ, demum subtiliter granulares et depauperatae; apothecia  $3\frac{1}{4}$ - $4\frac{1}{10}$  mm. lata, numerosa, sessilia, obscurofusca, madefacta hinc inde gilvo-fusca, mox hemisphaerico-convexa, immarginata, nuda et opaca, hinc inde conglomerata; epithecium et lamina fuscidula; hypothecium fuscum, crassum; sporæ 8-næ, oblongato-obvoideæ, 9-13  $\mu$  longæ et  $4\frac{1}{2}$ -5  $\mu$  latæ. — Nulli cogitarum arte affinis est, attamen ob hypothecium fuscum in vicinitate *L. ludi-bunda* Müll. Arg. et *L. multiflora* Tayl. inserari potest. — Corticola prope Cheltenham : Wilson, n. 1340.
81. **Lecidea** (s. **Lecidella**) **elabens** Fr. Vet. Ak. Handl. 1822, p. 256; lignicola, Mt Macedon : Wilson, n. 625.
82. **Lecidea** (s. **Lecidella**) **parasema** Ach., Nyl. Scand., p. 216; corticola, *Eucalyptus* prope Kew : Wilson, n. 608, et *Pyrus communis* ad Sale : Wilson, n. 601, nec non ligna vetusta prope Kew : Wilson, n. 1440. — v. **enteroleuca** Nyl. Scand., p. 217; ad ligna vetusta prope Kew : Wilson, n. 618.
83. **Lecidea** (s. **Lecidella**) **sabuletorum** Fr. L. Europ., p. 339; ad saxa arenacea prope Kew : Wilson, n. 655, 819, et basaltica ad Little River : Wilson, n. 1431, 1432.
84. **Lecidea** (s. **Sarcogyne**) **simplex** v. **calcifraga** Müll. Arg. Lich. Ægypt., n. 47; ad saxa calcarea prope Warrnambool : Wilson, n. 817.
85. **Lecidea** (s. **Eulecidea**) **ferax** Müll. Arg.; thallus albus, tenuis, minute

rimoso-areolatus; areolæ planæ aut convexulæ, lèves, contiguae; hypothallus albus; apothecia numerosissima et conferta v. hinc inde sparsa, saepe pressione mutua angulosa, circ.  $\frac{2}{3}$  mm. lata, adpresso-sessilia, opaco-nigra, persistenter concava, margine crassiusculo prominente cincta; discus concaviusculus, nigro-caesius; epithecium et hypothecium nigro-fusca; ascii 8-spori; spora ellipsoideæ; 10-11  $\mu$  longæ et 6  $\mu$  latæ. — Ex affinitatæ *L. contigua* Fr., sed magis microcarpa et apothecia concava. Proxima esse videtur *L. assentienti* Nyl. e Kerguelenland et juxta hanc et *L. leptocarpam* Nyl. (e Nova Zelandia) inseparanda est. — *Saxicola* ad Lorne : Wilson, n. 1026.

— — v. **athallina** Müll. Arg.; thallus decorticatus et evanescens, vix nisi strato hypothallino albo cum saxo conferruminato maculam albam formans, unde apothecia laxius sessilia apparent. Reliqua omnia cum specie conveniunt. — Ad saxa arenacea, Lorne : Wilson, n. 1032.

86. **Lecidea** (s. **Eulecidea**) **tristicula** Müll. Arg.; thallus siccus nigrescenti-v. fusco-cinereus, madefactus virenti-cinereus, tenuissimus, subtilater granularis; apothecia  $\frac{2}{5}$  mm. lata et minora, sessilia, plana, tenuia et tenuiter marginata, tota nigra et nuda, opaca; margo demum ob discum modice convexum minus distinctus; epithecium viridi-nigricans; lamina superne virens; hypothecium late nigrescenti-fuscum: paraphyses facile liberæ; sporæ 8-næ, circ. 12  $\mu$  longæ et 6  $\mu$  latæ. — Praeter colorem nigrescenti-obscurum thalli satis accedit ad *L. crustulatum* Körb., sed ab ea bene distincta est apotheciis non crassiusculis et paraphysibus non arte cohærentibus. — Ad saxa arenacea prope Kew : Wilson.

87. **Lecidea** (s. **Eulecidea**) **contigua** Fr. L. Europ., p. 298; ad saxa arenacea prope Kew : Wilson, n. 649, 1378, ad quartzosa prope Beaconsfield : Wilson, n. 1029, porphyritica in Mt Macedon : Wilson, n. 793 et ad ripas prope Warburton : Wilson, n. 790.

— — v. **flavicunda** Nyl. Scand., p. 224; *saxicola* ad ripas prope Warburton : Wilson, n. 789.

— — v. **leprosa** Leight. Lichenfl., p. 300; ad saxa arenacea prope Kew : Wilson, n. 641, 658, 1043, 1375, 1413; ad saxa basaltica Yarra Bend : Wilson, n. 646.

— — v. **hydropila** Leight. Lichenfl., p. 300: supra saxa schistosa Glenmaggia : Wilson, n. 648.

— — v. **umbonifera** Müll. Arg.; thallus caesio-cinereus, tenuissimus, rimoso-areolatus, demum disrupto-areolatus et evanescens, superficie lèvis; apothecia  $1\frac{1}{2}$  mm. lata, sessilia, haud adpressa, tota nigra, pyramidali-acutata et in centro umbonata. — *Saxicola* in monte Hotham, Victoria, alt. 5000 ped. : Wilson, n. 1403.

88. **Lecidea** (s. **Eulecidea**) **albocœrulescens** Ach. Meth., p. 52; ad saxa rivuli Yarra prope Warburton : Wilson, n. 786, 788; ad saxa quartzosa,

- Upper Maffra : Wilson, n. 645. et dein ad saxa arenacea prope Lorne : Wilson, n. 336.
89. **Lecidea** (s. **Eulecidea**) **fuscoatra** v. **fumosa** Nyl. Scaud., p. 230: ad saxa basaltica, Yarra Bend : Wilson, n. 639.
90. **Lecidea** (s. **Eulecidea**) **pallido-atra** Nyl. L. Nov. Zoland., p. 106: ad saxa arenacea in Mt Hotham. alt. circ. 3000 ped. : Wilson, n. 276.
91. **Lecidea** (s. **Eulecidea**) **fumosella** Müll. Arg.; thallus fuscescenti-cinereus, tenuissimus, diffracto-areolatus: areole vix  $\frac{1}{2}$  mm. late, angulosæ, obsolete concavæ et planæ, læves, hinc inde hypothallo perspicuo atro segregatae: apothecia  $\frac{1}{5}$ - $\frac{1}{4}$  mm. tantum lata, immersa, quasi marginibus areolæ subcontractæ marginata, ambitu orbicularia v. angulosa; discus depresso-niger et nudus; lamina superne violaceo-fusca; hypothecium fuscum; sporæ 8-næ, ellipsoideæ, circ. 8  $\mu$  longæ et 5  $\mu$  latæ. — Affinis *L. fumosa* Körb., at exiguitate apotheciorum et sporarum, nec non apotheciis immersis insignita est, sed habitus valde modestus. — Ad saxa basaltica, Little River : Wilson, n. 1436.
92. **Nesolechia rufa** Müll. Arg.; apothecia (parasitica)  $\frac{1}{5}$ - $\frac{1}{3}$  mm. lata, innata, madefacta emergentia, anguloso-orbicularia, immarginata, fusco-rufa, madefacta intense rubricoso-rufa, nuda; epithecium fulvum: hypothecium et lamina hyalina; paraphyses conglutinatae; sporæ 8-næ, circ. 15  $\mu$  longæ et 7  $\mu$  latæ, fusiformi-ellipsoideæ, uno latere aut utrinque acute cuspidato-acuminatae. — Species colore apotheciorum et cuspidibus sporarum (non germinantium) insignita. — In thallo *Psoromatis* ut videtur ad Mordiallon, Victoria : Wilson, n. 1003.
93. **Patellaria** (s. **Biatorina**) **glauco-nigrans**; *Biatora glauco-nigrans* Tuck. Obs. 4, p. 179: ad corticem vetustum *Banksia* prope Sandringham : Wilson, n. 606.
94. **Patellaria** (s. **Biatorina**) **cyrтella** Müll. Arg. Lich. Genève, p. 57; ad corticem *Sambuci nigrae*, Kew : Wilson, n. 630.
95. **Patellaria** (s. **Biatorina**) **Banksiæ** Müll. Arg.; thallus subæsio-albus, tenuissimus, primum continuus et lævis, dein crebre rugulosus et demum crebre subtiliter granularis; apothecia adpresso-sessilia,  $\frac{1}{2}$  mm. lata et minora, plana, crassiuscula; margo junior testaceo-nigricans et obtuse prominulus, demum obscurior et vix distinctus, semper integer: discus murino-fuscus v. demum nigricans, subpruinosus, madefactus carneo-fuscus; epithecium brunneolum, lamina cæterum cum hypothecio hyalina; spora 8-næ, fusiformes, 2-loculares, 10-18  $\mu$  longa, 4-5  $\frac{1}{2}$   $\mu$  latæ. — Apothecia novella pallido-subpellucida, mox autem obscurius tincta. Colores 3 thalli, marginis et disci vulgo bene distincti. Species peculiaris, nulli cognitarum arcte affinis. — Corticola, in *Banksia serrata* prope Cheltenham : Wilson, n. 632, et prope Sandringham : ej. n. 722.

96. **Patellaria** (s. **Biatorina**) **polycarpa** Müll. Arg.; thallus griseo-albidus, tenuissimus, vestigialis, laevis et demum evanescens; apothecia  $\frac{1}{5}$ - $\frac{2}{5}$  mm. lata, juniora plana et obsolete marginata, rufo-fusca, mox convexa et immarginata et mox fusco-nigra et nigra, opaca, madefacta tamen plus minusve fuscescens, semper nuda; lamina superne violaceo-fuscens, reliqua cum hypothecio hyalina; sporæ 8-næ, oblongo-ellipoideæ, 2-loculares, 11-13  $\mu$  longæ et 4  $\frac{1}{2}$ -5 mm. latæ. — In vicinitate *Patellariae lenticularis* Fr. locari potest. — Ad saxa calcarea prope Warrnambool : Wilson, n. 640.
97. **Patellaria** (s. **Biatorina**) **confluens** Müll. Arg.; thallus cinereo-albidus, parcissime leprosulus; apothecia circ.  $\frac{3}{5}$  mm. lata, juniora obscure gilvo-carnea, mox obscuriora et rufo-fusca, convexa, inumarginata, gregatim confluentia; lamina tota undique hyalina; sporæ 8-næ, oblongo-ellipoideæ, 2-loculares, 15-17  $\mu$  longæ et 5-7  $\mu$  latæ. — Etiam haec in sectione *Biatorina* valde distincta est. Thallus fere nullus et apothecia inter folia Muscorum fere occlusa sunt. — Supra muscos prope Warrnambool : Wilson, n. 834.
98. **Patellaria** (s. **Catillaria**) **rimosa** Müll. Arg.: thallus ochroleuco-albidus, crassiusculus, determinatus, crebre et profunde rimosus; areolæ ruguloso-inæquales; apothecia  $\frac{1}{2}$ -1  $\frac{1}{4}$  mm. lata, sessilia, plana, nuda et opaca, nigerima, persistenter marginata; epithecium cœruleo-nigrum; lamina et hypothecium hyalina; paraphyses tenues, apice capitatae; sporæ 8-næ, subfusiformi-ellipsoideæ, 7-10  $\mu$  longæ et 4-5  $\mu$  latæ. — Nulli cognitarum arte affinis, prope japonicam *P. rudiisculum* Müll. Arg. locanda. — Ad saxa arenacea prope Lorne : Wilson, n. 1402.
99. **Patellaria** (s. **Catillaria**) **bryophila** Müll. Arg.; thallus albidus, subtiter granulari-leprosus; granula confertim discreta; apothecia majora  $\frac{2}{3}$ -1  $\frac{1}{4}$  mm. lata, sessilia, atra, nuda, nitidula, plana et persistenter marginata; margo tenuis, demum undulatus; epithecium et hypothecium nigro-cœrulea; sporæ 8-næ, oblongo-ellipsoideæ, 12-14  $\mu$  longæ et 4  $\frac{1}{2}$ -5  $\frac{1}{2}$   $\mu$  latæ. — Species bene distincta et colore epithecii et hypothecii insignita. — Muscis emortuis instrata prope Lakes Entrance, Jandarook et Warburton lecta : Wilson, n. 720.
100. **Patellaria** (s. **Psorothecium**) **melanotropa**; *Lecidea melanotropa* Nyl. L. Nov. Zeland., p. 86; corticola, Warburton : Wilson, n. 709.
101. **Patellaria** (s. **Psorothecium**) **superflua** (Nyl.) Müll. Arg. L. B., n. 4166; corticola, Mt Macedon : Wilson, n. 1441; ad Oakleigh : Wilson, n. 717.
102. **Patellaria** (s. **Psorothecium**) **subfuscata**; *Lecidea subfuscata* Nyl. L. Exot. Polynes., p. 243; corticola, Maffra : Wilson, n. 701.
103. **Patellaria** (s. **Psorothecium**) **melaclina**; *Lecidea melaclina* Nyl. Lich. Nov. Zeland., p. 88; corticola, prope Cobden : Wilson, n. 718, et etiam supra saxa arenacea propo Lorne : Wilson, n. 809.

104. **Patellaria** (s. *Psorothecium*) *marginiflexa* Müll. Arg. L. B., n. 1429; corticola ad Black Spur : Wilson, n. 699.
105. **Patellaria** (s. *Bilimbia*) *leucoloma* Müll. Arg.: thallus sulfureo-flavicans, pulverulentus, tenuissimus et continuus; apothecia  $\frac{2}{3}$  mm. lata, sessilia, crassiuscula; discus nigro-fuscus et nudus, planus; margo sulphurecenti-albus, thallo ipso albior, integerrimus, haud prominens, dein undulatus et crispulus, plicae demum adeo in disco sensim sensimque penetrantes ut discum in partiunculas distinctas secentur et quasi apothecia secundaria 10-15 fasciculatim aggregata constuant; paraphyses haud connexæ; hypothecium profunde rufo-fuscum; asci 2-seriatim 8-spori; sporæ  $9-12 \mu$  longæ: 3- $3\frac{1}{2} \mu$  latae, cylindrico-ellipsoideæ, utrinque obtusaæ, rectæ et saepius incurvæ, 4-loculares. — Prope *P. thysanotam* (Tuck.) locanda, sed valde distincta. Gonidia glomerulosa. — Corticola ad Warburton : Wilson, n. 832 (in sched. *Lecanora sorenta* nominata, evidenter ex statu anormali prolifero).
106. **Patellaria** (s. *Bilimbia*) *pallido-nigrans* Müll. Arg.; thallus albidus, tenuissimus, maculiformis, lævigatus, demum minute rimulosus et evanescens; apothecia  $\frac{1}{4}-\frac{1}{2}$  mm. lata, novella livido-pallida et obsolete marginata v. ab origine nigricanti-livida, dein immarginata et livido-nigricantia, cito modice convexa, nuda et opaca; lamina undique ex olivaceo subhyalina v. hyalina; sporæ 8-nae, digitiformes, 4-loculares,  $12 \mu$  longæ et  $3-3\frac{1}{2} \mu$  latae. — Juxta *P. chloroplacam* (Fée) Müll. Arg. Revis. Lich. Féean., p. 5, cuius sporæ satis convenient, ubi autem thallus alius et apothecia multo majora, locanda est. — Corticola ad Warburton, Victoria : Wilson, n. 769.
107. **Patellaria** (s. *Bilimbia*) *pallida* Müll. Arg. L. Cap Horn, n. 77; ad lignum vetustum prope Warburton : Wilson, n. 763.
108. **Patellaria** (s. *Bacidia*) *luteola* v. *conspondens*; *Lecidea luteola* v. *conspondens* Nyl. Syn. L. Nov. Caledon., p. 47; ad ramulos prope Sale : Wilson, n. 772 pr. p.: supra *Melaleucam ericifolium* prope Doncaster : Wilson, n. 774 pr. p.
109. **Patellaria** (s. *Bacidia*) *millegrana* (Tayl.) Müll. Arg. L. B., n. 204; corticola, Sale : Wilson, n. 772 pr. p., 774 pr. p.
110. **Blastenia ferruginea** Mass. Syn. L. Blasten., p. 14; corticola. Warrnambool : Wilson, n. 670.
111. **Blastenia endochromoides**; *Lecidea endochromoides* Nyl. in Prodr. Nov. Gran., p. 588 et L. Nov. Zeland., p. 89; corticola, ad Black Spur : Wilson, n. 700.
112. **Blastenia soredians** Müll. Arg.; thallus glauco-albus, tenuis, rugulosus et gibboso-inæqualis, superficie lævis, dein in prominentiis late soredioso-efflorescens; apothecia 1- $1\frac{2}{3}$  mm. lata et minora, sessilia, crassiuscula, ab origine nigra v. hinc inde fusco-v. rufo-nigra, crasse

marginata: margo integer, demum undulatus; discus fusco-niger, obsolete cæsio-pruinosus; epithecium nigro-fuscum; hypothecium superne late hyalinum, inferne nigro-fuscum; sporæ in ascis 4-næ, hyalinæ, oculiformes, late ellipsoideæ, 20-25  $\mu$  longæ et 14-15  $\mu$  latæ, utrinque late rotundato-obtusæ. — Nulli nisi *Bl. endochromoidi* Müll. Arg. affinis, sed excipulum apotheciorum non pallidum et thallus peculia-riter soreadians. — Corticola ad lacum Tyers : Wilson, n. 4380.

113. **Buellia modesta** (Krpkh.) Müll. Arg. L. B., n. 362, obs.; truncicola, in Victoria : Wilson, n. 759 pr. p.
114. **Buellia parasema** v. **disciformis** Th. M. Fries Scand., p. 590; corticola in *Hymenanthera*, *Ailanthe*, ad Sale : Wilson, n. 620; ad Maffra : Wilson, n. 746, 759 pr. p.  
— — v. **vulgata** Th. M. Fries Scand., p. 590; corticola, ad trunhos *Banksia serratae*, Cheltenham : Wilson, n. 751.
115. **Buellia myriocarpa** Mudd Man., p. 217; corticola, Warrnambool : Wilson, n. 669 pr. p., Sandringham : Wilson, n. 1392, Geelong : Wilson, n. 4416, et in ligno vetusto prope Kew : Wilson, n. 1389. 1393.
116. **Buellia fuliginosa** Müll. Arg.; thallus fuliginoso-fuscus, furfuraceus, tenuis, demum evanescens; apothecia exigua,  $1/3$  mm. lata, sessilia, prominenter marginata, nuda et opaca, semper concava; epithecium et hypothecium fuliginoso-nigricantia; sporæ in ascis fugacissimis 8-næ, fuligineo-fuscae, 18-20  $\mu$  longæ, 10-12  $\mu$  latæ, demum obeso-biscoctiformes. — A proxima *B. myriocarpa* Mudd recedit apotheciis et sporis. — Lignicola in Mt Macedon : Wilson, n. 1691 pr. p.
117. **Buellia extenuata** Müll. Arg. L. Miyosh., n. 103, f. **athallina**; thallus deficiens, reliqua cæterum cum specie bene convenire videntur. Apothecia verticaliter secta sub ascis late hyalina, inferne autem fuscescentia v. fusco-pallida. — Prima fronte *B. parasema* v. *saprophilam* Körb. simulat, sed apothecia minus marginata et hypothecium subpallidum. — Lignicola, Warrnambool : Wilson, n. 669 pr. p., et prope Kew : Wilson, n. 705.
118. **Buellia endoleuca** Müll. Arg.; thallus albidus, tenuissimus, talcaceo-continuus, dein rimulosus et facile pro majore parte evanescens; apothecia  $4/10$  mm. lata et minora, adpresso-sessilia, tota ab origine nigra et nuda, juniora plana et tenuissime marginata, mox convexa et immarginata; epithecium nigro-fuscum; hypothecium undique hyalinum; sporæ 8-næ, fuscae, aequaliter 2-loculares, oblongo-ellipsoideæ v. obovoideæ, 11-15  $\mu$  longæ, circ. 7  $\mu$  latæ. — Juxta *B. sub junctam* (Nyl.) Müll. Arg. L. Parag., n. 128 locanda est. — Corticola, Camperdown : Wilson, n. 692.
119. **Buellia farinulenta** Müll. Arg.; thallus albus, tenuis, continuus et laevis, superficie farinulentus; apothecia  $1/2$ - $4/5$  mm. lata, erumpentia

thalli vestigiis conniventer dentiformibus coronata, mox emergentia et adpresso-sessilia, extus obsolete thallino-pulverulenta, demum nuda, plana, margine crassiusculo incurvo obtuso cincta: discus planus; epithecium et hypothecium nigro-fusca: sporæ 8-næ, oblongo-ellipsoideæ, 2-loculares, 8  $\mu$  longæ et 4  $\mu$  latae. — Ab affinibus *B. subalbulu* (Nyl.) Müll. Arg. differt apotheciis magis adpressis et margine, et a *B. cretacea* Müll. Arg. apotheciis et sporis minoribus. — Calcicola, Warrnambool : Wilson, n. 1417.

- 120. *Buellia submaritima*** Müll. Arg.; thallus cretaceo-albus, tenuis, ambitu subeffusus, superficie lavis et æqualis, farinulentus, demum parce areolato-rimosus; apothecia innata.  $1\frac{1}{4}$ - $2\frac{1}{5}$  mm. lata, juniora albido-pruinosa, demum superficiem thalli leviter superantia et nudato-nigra, vix perspicue et tenuissime marginata: epithecium fusco-nigrum; hypothecium late rufo-fuscum: paraphyses rigidæ; sporæ 8-næ, late ellipsoideæ, 2-loculares, 13-16  $\mu$  longæ, 9-10  $\mu$  latae. — Extus fere omnino *B. maritimam* Bagl. simulat, sed thallus non pulviniformis, ambitu non bene determinato non lobatus et sporæ demum valde diversæ multo maiores et ambitu obesæ. A *B. farinulenta* Müll. Arg. differt apotheciis et sporis. — Ad saxa calcarea, Warrnambool : Wilson, n. 732.
- 121. *Buellia pruinosa*** Müll. Arg.; thallus cretaceo-albus, crassiusculus, continuus, hinc inde demum rimulosus; apothecia innata, intense cæsio-pruinosa v. discus demum nudato-ater, plana et thallum hand excedentia, demum convexa et margine tenui subfuscescente emergentia, evoluta 1 mm. lata; epithecium fuscum; hypothecium fulvo-obscuratum aut rufo-fuscum, crassum; sporæ 8-næ, ellipsoideæ, 2-loculares, 9-11  $\mu$  longæ et 5-6  $\mu$  latae. — Inter *B. cretacea* et *B. farinulenta* Müll. Arg. locanda est. Apothecia evoluta satis similia iis *Diplotoumatis alboatri* Mass. — Calcicola, Warrnambool : Wilson, n. 724.
- 122. *Buellia Wilsoniana*** Müll. Arg.; thallus ochroleuco-albus, crassiusculus, tartareus, e continuo rimoso-areolatus; areolæ planæ v. demum obsolete rugulosæ, contiguæ, firmæ; apothecia novella omnino immersa, in disco piano leviter depresso nigro-cæsia, demum leviter emergentia et nudiora magisque convexa, margine nigro concolore tenuissimo cincta, evoluta diametro 1 mm. attingentia: epithecium nigro-fuscum; hypothecium intense fuscum; sporæ 8-næ, ellipsoideæ, 2-loculares, 12-14  $\mu$  longæ et circ.  $7\frac{1}{2}$   $\mu$  latae. — A proxima *B. pruinosa* Müll. Arg. differt thallo non cretaceo-albo, non farinulento, crebre rimoso-areolato, apothecis aliter pruinosis demum cum sporis paullo majoribus. — Ad saxa calcarea prope Warrnambool : Wilson, n. 725.
- 123. *Buellia macrospora*** Müll. Arg.; thallus olivaceo-cinereus, crassiusculus, insculpto-rimosus; areolæ contiguæ, sulcatae et rugulosæ; apothecia  $2\frac{2}{3}$ -1 mm. lata, sessilia, e piano et tenuiter marginato mox alte hemi-

sphaerico-convexa, nigra et nuda, nitidula; epithecium et hypothecium nigro-fusca; sporae in ascis 2-5-næ, oblongo-ellipoideæ, 2-loculares, 26-30  $\mu$  longæ, 10-13  $\mu$  latæ. — Prima fronte *B. savorum* Mass. omnino simulans, sed sporæ subduplo majores, in ascis pauciores et apothecia cito valde convexa. — Ad saxa granitica ad Youyangs : Wilson, n. 827.

124. ***Buellia subarenaria*** Müll. Arg.; thallus albidus, tenuis, areolato-rimosus: areole planæ v. dein subconvexæ, ad margines concolores, demum ipsæ rimulosæ et rugulosæ; apothecia 1/2-1 mm. lata, novella innata, mox dein adpresso-sessilia, plana v. demum leviter convexa, tenuiter marginata, aterrima, nuda et opaca: epithecium et hypothecium nigro-fusca; sporæ 8-næ, ellipoideæ, 2-loculares, 11-16  $\mu$  longæ, 6-8  $\mu$  latæ. — Ab affine *B. arenaria* Müll. Arg. statim recedit apotheciis adpressis, thallo bene evoluto, et sporis minoribus et dein a simillima *B. tumida* Bagl. in Mass. Sched. n. 303 distinguitur thallo albiore, areolis acutius angulosis, contiguis et mox rimos et in marginibus non obsolete sore-dioso-discoloribus et demum apotheciis novellis omnino innatis. — Ad saxa arenosa, Lorne : Wilson, n. 4034, Kew : Wilson, n. 4386, et ad saxa basaltica ad Little River : Wilson, n. 4438.

125. ***Buellia arenaria*** Müll. Arg.; thallus albidus, tenuissimus, diffracto-riuosus; areolæ vestigiiformes, sulcatæ et rugulosæ; apothecia 4/5 mm. lata et vulgo minora, sessilia, plana et semper margine tenui prominente cincta, nigra et nuda, opaca; epithecium et hypothecium crassum nigro-fusca; sporæ 8-næ, ellipoideæ, 2 loculares, 18-24  $\mu$  longæ et 8-10  $\mu$  latæ. — *B. leptocline* Mass. huic similis est, sed recedit thallo melius evoluto, apotheciis majoribus et sporis e contra minoribus; simillima *B. exsoluta* Nyl. (Lich. Nov. Zel., p. 112) dein hypothecio omnino recedit). — Supra saxa arenacea prope Lorne, Victoria : Wilson, n. 4044.

126. ***Buellia halophila*** Müll. Arg.; thallus albidus, tenuis, ex continuo mox rimoso-areolatus, ambitu subeffusus; areole planæ, obsolete rugulosæ; apothecia 1/2-1 mm. lata, sessilia, semper plana et margine tenui prominente cincta, nigra et nuda, opaca; epithecium nigro-fuscum; hypothecium superne late hyalinum, inferne pallescenti-fuscum v. fuscidulo-obscuratum; sporæ 8-næ, ellipoideæ, 8-12  $\mu$  longæ et 4-5  $\mu$  latæ. — Prope *B. dispersam* Mass. inserenda est, a qua recedit thallo non candido, apotheciis magis superficiali-sessilibus, sporis minoribus et dein hypothecio pallidulo. — Thallus pro maxima parte ochraceo-tinctus est, sed decoloratio e substrato similiter tincto orta est. — Supra saxa maritima ad Cheltenham : Wilson, n. 734.

127. ***Buellia stellulata*** Mudd Man., p. 216; supra saxa maritima ad Sandringham : Wilson, n. 730.

128. ***Buellia spuria*** Körb. Par., p. 483; super saxa arenacea prope Kew : Wilson, n. 1388, 1415. et quartzosa, Upper Maffra : Wilson, n. 334, 731. 733.

129. **Buellia diplotomoides** Müll. Arg. L. B., n. 362; ad saxa arenacea prope Kew : Wilson, n. 728.
130. **Buellia hypomelæna** Müll. Arg. Lich. Sebastianop., n. 26 ; ad saxa arenacea prope Lorne : Wilson, n. 1028.
131. **Buellia meiosperma** (Nyl.) Müll. Arg. Lich. Nouméa, p. 4 ; ad saxa basaltica, Little River : Wilson, n. 1036.
132. **Buellia stigmataea** Körb. Syst.. p. 226; ad saxa arenacea prope Kew : Wilson, n. 1033.
133. **Buellia (s. Karschia) talcophila** Körb. Syst., p. 230; supra thallum *Amphilomatis murorum* v. *lobulati*, Little River : Wilson, n. 1440.
134. **Buellia peregrina** Müll. Arg.; apothecia in areolis (albis rimulosis thalli alieni) sita,  $\frac{5-15}{100}$  mm. tantum lata, nigra, ex emergente demum sessilia, planiuscula, valide marginata; epithecium nigro-fuscum, lamina cæterum cum hypothecio subhyalina; sporæ 8-nae. elongato ellipsoideæ, æqualiter 2-loculares, circ. 7-10  $\mu$  longæ et 3  $\frac{1}{2}$ -5  $\mu$  latæ, longitudine diametrum sæpius ultra bis æquantes. — Prope *B. rimosicolam* Müll. Arg. disponenda est. — Thallicola, Erskine River : Wilson, n. 1039.
135. **Diplotomma albo-atrum** Mass. Ric., p. 98: ad saxa calcarea, Warrnambool : Wilson, n. 767.
136. **Rhizocarpon rivulare** Müll. Arg.: thallus fuscus v. in ambitu cinereo-dealbatus, continuus, polito-lavigatus et omnino planus, tenuis, demum fissuris subareolatim ruptus; apothecia innata, cum superficie plano-æqualia,  $\frac{4}{5}$  mm. lata et minora, nigra et opaca, nuda, demum a thallo circumcircæ nonnihil annuliformi-prominulo cincta, cæterum non distincte marginata; epithecium et hypothecium nigro-fusca; asci 8-spori: sporæ diu hyalinæ v. ad dissepimenta nigricantes, 13-18  $\mu$  longæ, 8-9  $\mu$  latæ, ellipsoideæ et obovoideæ, 4-loculares, loculi intermedii semel longitrorum divisi. — Prope *Rhizocarpon subalbatrum*, sc. *Lecideam subalbatrum* Nyl. e Rangoon locanda est, ubi thallus et apothecia differunt. — Ad saxa dura in flumine prope Warburton : Wilson, n. 652.
137. **Rhizocarpon atro-album** Arn. in Flora 1871, p. 148; ad saxa porphyritica in Mt Macedon : Wilson, n. 783, nec non arenacea prope Kew : Wilson, n. 1414.

TRIB. BIATORINOPSIDEÆ Müll. Arg. L. Paraguay., p. 18.

138. **Biatorinopsis lutea** Müll. Arg. L. B., n. 234; ad cortices muscosos *Prostantheræ lasianthæ* in Mt Macedon : Wilson, n. 607, et *Notaleæ ovatae* ad Black Spur : Wilson, n. 838.

TRIB. COENOGONIEÆ Müll. Arg. Lich. Paraguay., p. 18.

139. **Coenogonium interplexum** Nyl. Coenog., p. 92; ad arbores, in umbrosis prope Warburton : Wilson, n. 833.

TRIB. THELOTREMEÆ Müll. Arg. Graphid. Féean., p. 3, 5.

140. **Ocellularia Bonplandiae** Spreng. Syst. 4. 1. p. 242, var. **obliterata** Müll. Arg.; protuberantiae thallinae pro maxima parte omnino obsoletæ et discululi tum paulo ampliores et minus impressi apparentes, sc. superficiem planam thalli attingentes. — Reliqua optime cum genuina *O. Bonplandiae* convenient, et hinc inde in eodem thallo occurruunt apothecia quæ transitum manifestum ostendunt. — Corticola, Warburton : Wilson, n. 513.

141. **Ocellularia gyrostomoides** Müll. Arg. L. B., n. 1263; ad corticem *Drimydis aromaticæ*, prope Kew : Wilson, n. 949.

142. **Thelotrema decorticans** Müll. Arg.; thallus glauco-albicans, tenuissimus, instratus, laevis v. leviter rugulosus; apothecia  $\frac{3}{4}$ -1 mm. lata, adnato-sessilia, hemisphaerica, apice deplanato-obtusa, grosse verruculosa, parte corticali thallina mox subsquamaceo-secedente quasi multilata et peritheciū interius propriū carneū tum denudatum, hemisphaericum, laeve, apice poro latiusculo aut dentibus 4-7 conniventibus acutis aperiens; discus subcarneus, depresso; hypothecium hyalinum; asci juniores 8-spori, sporæ evolutæ abortu nonnullarum saepius tamen 4-næ, hyalinae, 50-60  $\mu$  longæ et halone computato 15-20  $\mu$  latæ, sine halone quoad latitudinem loculorum circ. 10  $\mu$  latæ, fusiformi-ellipsoideæ v. etiam acutiores et ellipsoideo-fusiformes, 14-14-loculares, loculi 2-4-locellati. — Species perithecio interiore carneo mox fere usque ad basin denudato et exteriore verrucoso insignita, cæterum ad vulgare *Th. lepadinum* Ach. (ubi spora majores et magis divisæ) accedit. — Corticola, ad Black Spur : Wilson, n. 514.

143. **Thelotrema lepadinum** Ach. Univ., p. 312; corticola, ad Warburton : Wilson, n. 516, 519, et ad Lake Elinganute : Wilson, n. 1446.

TRIB. GRAPHIDEÆ Müll. Arg. Graph. Féean., p. 4, 15.

144. **Dirinastrum australiense** Müll. Arg.; thallus cretaceo-albus, crassus, determinatns et contiguus v. hinc inde in glebulas parvas hemisphaericas dispersas aut confluentes disruptus, superficie farinosus; gonidia chroolepoideo-concatenata; apothecia circ. 1 mm. lata, crassa, albo-

marginata: discus irregulariter orbicularis et irregulariter nudatus, nigricanti-fuscus, planus; epithecium fuscum; hypothecium nigro-fuscum, crassum, subtus pallide coccineum: paraphyses simplices; asci 1-serialis 8-spori; sporae 12-14  $\mu$  longae, 7-8  $\mu$  latae, ellipsoideae, utrinque late rotundato-obtusae, 2-loculares. — Subsimilis *Dirina repanda* Fr., sed gracilior et sporae fuscæ, divisione et ambitu aliae. — Genus *Dirinastrum* differt a *Dirina* sporis fuscis (ambitu latis). Reliqui characteres utriusque convenient et ambo a Lecanoreis structura gonidiorum omnino differunt. — Super saxa calcarea maritima ad Waurnambool : Wilson, n. 735 (specimen receptum exinde pauperum, at characteres tamen evidentes).

145. **Platygrapha Banksiae** Müll. Arg.: thallus argillaceo-cinerens, tenuis, granoso-rugosus; apothecia  $4/5$  mm. lata, creberrima saepne mutua pressione subangulosa, crassiscula, sessilia, valide thallino-marginata; margo junior prominens, dein cum disco apice in apotheciorum leviter convexum formans, semper integer; discus nigro-fuscus, grossiscula granuloso-cinereus, denum nudatus; epithecium diu thallino-tectum; hypothecium profunde nigro-fuscum; paraphyses tenellæ et irregulares; asci 8-spori; sporæ 20-25  $\mu$  longæ, absque halone interdum distincto 4-5  $\mu$  latæ, fusiformes, rectæ v. modice incurvæ, 6-8-loculares. — Prima fronte optime *Dirinam Ceratonia* Fr. simulat, sed apothecia leviter minora et sporæ et paraphyses omnino aliae. — Prope *Pl. cinereum* Müll. Arg., e Manipoor, inserenda est. — Ad corticem *Banksiae serratae*, Cheltenham : Wilson, n. 364.
146. **Opegrapha lacteella** Müll. Arg.: thallus lacteo-albus, tenuissimus, continuus et laevigatus, denum irregulariter maculoso-evanescens; lirellæ adpresso-sessiles, circ.  $10/100-13/100$  mm. latæ, longitudine diametrum semel-quater æquantes, atræ et opacæ, semicylindrica; labia arte convenientia; peritheciū basi completum; epithecium nigro-fuscum; asci oblongo-obovoidei, apice pachydermei, 8-spori: sporæ 12-14  $\mu$  longæ,  $3\frac{1}{2}-4$   $\mu$  latæ, utrinque obtusæ, 4-loculares. — Proxime affinis est austro-americanæ *Op. atratulae* Müll. Arg., a qua recedit thallo lacteo, lirellis brevioribus, madefactis discum non demudantibus et dein ascis minus cylindricis, ascis pachydermeis et sporis obtusioribus. — Corticola ad Warrnambool : Wilson, n. 845, ad Heyfield : Wilson, n. 894.
147. **Opegrapha Turneri** Leight. Brit. Graph., p. 47, t. V, f. 10; ad corticem *Bursaria spinosa* prope Grand Warrnambool : Wilson, n. 855 pr. p.
148. **Opegrapha sororiella** Müll. Arg. Diagn. L. Socotr., p. 41: ad corticem *Banksiae serratae* prope Cunningham : Wilson, n. 862.
149. **Opegrapha varia** v. **diaphora** Nyl. Scand., p. 233; corticola prope Sandringham : Wilson, n. 899; ad truncos *Banksiae serratae* prope Cheltenham : Wilson, n. 858 b, et dein ad saxa calcarea prope Warrnambool : Wilson, n. 849, 851, 861.

**Opegrapha varia v. heterocarpa** Müll. Arg. Revis. L. Eschweitz., II, n. 22; corticola, Lakes Entrance : Wilson, n. 1512; in *Hymenanthera Banksii* ad Maffra : Wilson, n. 846; in cortice *Pomaderris apetalaw* prope Cunningham : Wilson, n. 1507; et dein ad saxa arenacea secus Erskine River : Wilson, n. 852.

— — v. **glomerulans** Müll. Arg.; thallus cinereus, tenuiter rimulosus, mox evanescens; lirellæ  $\frac{2}{3}$  mm. longæ et minores, simplices et brevisime 3-furcate, ad extremitates obtusæ, clausæ, fere semper dein e marginibus tumidis et undulatis glomerulum plus minusve hemisphaericum grosse 4-6-gibbosum formantes. — Sporæ observatæ minores quam in planta normali speciei, sed juniores tantum visæ. — Ad saxa arenacea, Erskine River : Wilson, n. 532.

150. **Opegrapha vulgata** Ach. Meth., p. 20; corticola prope Tandarook Cobden : Wilson, n. 847; Lakes Entrance : Wilson, n. 1496; ad ramulos *Hyuenantheræ Banksii* prope Kew : Wilson, n. 1473; ad truncos *Pittospori* prope Cunningham : Wilson, n. 1504, et dein lignicola ad Warrnambool : Wilson, n. 854.
- — v. **parallela** Müll. Arg.: apothecia parallela, reliqua cum specie (in Victoria vulgari) convenient. — Corticola, Camperdown : Wilson, n. 897.

151. **Opegrapha Bonplandi** Fée Ess., p. 25; corticola, ad Lakes Entrance : Wilson, n. 1476.

152. **Opegrapha prosodea** Ach. Meth., p. 22; corticola prope Lakes Entrance : Wilson, n. 1471, 1472, 1511.

153. **Melaspilea gemella** Nyl. in Prodr. Nov. Gran., p. 376; corticola prope Black Spur : Wilson, n. 892.

154. **Phæographis** (s. **Solenothecium**) **cinerascens** Müll. Arg. L. B., n. 530; corticola ad Oakleigh : Wilson, n. 684.

155. **Phæographis** (s. **Anisothecium**) **inscripta** Müll. Arg. L. B., n. 532; corticola prope Lakes Entrance : Wilson, n. 1519.

156. **Phæographis** (s. **Anisothecium**) **australiensis** Müll. Arg. L. B., n. 533; ad corticem *Pomaderris* prope Black Spur : Wilson, n. 947, 1503; ad Lake Tyers in cortice « Lillipilli » : Wilson, n. 684; ad Lakes Entrance : Wilson, n. 877 b; et in *Banksia serrata* prope Cunningham : Wilson, n. 1494.

157. **Phæographis** (s. **Hemithecium**) **intumescens** Müll. Arg.; thallus fulvescenti-pallidus, tenuissimus, demum decorticando-albidus et farinulentus; lirellæ sparsæ, nigrae, subastroideo-ramosæ,  $1-2\frac{1}{2}$  mm. longæ, ad extremitates acutæ et obtusæ, leviter emergentes et discus strato thallino emerso marginum adscendentium quasi intumescentium cinctus, evolutus et madefactus demum  $\frac{1}{4}$  mm. latus, planus et niger, modice cinereo-pulverulentus; peritheциum nigro-fuscum, basi late deficiens; lamina cum hypothecio hyalina; asci angusti, 8-spori; sporæ

17-22  $\mu$  longæ, 8-9  $\mu$  latæ, elongato-ellipsoideæ, 4-loculares. — A proxime et eximie affini *Ph. extenuata* Müll. Arg. recedit colore thalli. lirellæ aliter brevius ramosis et magis emergentibus, validioribus, labiis strato thallino emerso incrassatis et ipsis dein crassioribus. Reliqua cæterum cum specie comparata eodem loco crescente, optime quadrant. — Corticola, Lakes Entrance : Wilson, n. 877 (specimen alterum).

158. **Phæographis** (s. **Hemitheciun**) **extenuata** Müll. Arg.; thallus lacteo-albus. tenuis, denum farinulentus; lirellæ dense sparsæ, nigrae, 2-3 mm. longæ, varie curvatæ et longirameæ,  $8/100-15/100$  mm. latæ, saepius acuminatæ, immersæ, tenuissime nigro-marginatæ. lateraliter haud thallino-duplicate, aut linea thallina leviter prominente cinctæ: discus madefactus apertus, planus, cinerascenti-niger, superficiem thalli subattingens: perithecium laterale, nigro-fuscum, in sectione basi late deficiens: lamina cum hypothecio lato hyalina; ascii angusti, 8-spori: spora 14-18  $\mu$  longæ, 7-8  $\mu$  latæ, elongato-ellipsoideæ, 4-loculares. — Ex affinitate *Ph. inusta* (Ach.) Müll. Arg., et prope ceylanicam *Ph. subdividentem* (Leight.) Müll. Arg. locanda est. Ab utraque differt sporis tantum 4-locularibus. Perithecium valde extenuatum est. — Corticola, Lakes Entrance : Wilson, n. 877 (specim. alterum).

159. **Graphis** (s. **Aulacographa**) **striatula** Nyl. Nov. Gran., p. 77, v. **sublaevis** Müll. Arg.: lirellæ parce sulcatæ et pro parte laeves; corticola. ad Lakes Entrance : Wilson, n. 1493.

160. **Graphis** (s. **Aulacogramma**) **rimulosa** (Montg.) Müll. Arg. L. Costar.. n. 137; corticola ad ramos *Acaciæ* secus Lakes Tyers : Wilson, n. 1499.

161. **Graphis** (s. **Solenographa**) **assimilis** Nyl. Prodr. L. Gall. Alger.. p. 450; in regione Victoria videtur species vulgatissima, semper corticola, in *Notalea* ad Lake Tyers : Wilson, n. 877, in *Drinyyde* ad Black Spur : Wilson, n. 865. et ad cortices varios non determinatos ad Warburton : Wilson, n. 872, 1515. ad Lakes Entrance : Wilson, n. 1521, 1522. et denum ad Black Spur : Wilson, n. 868, 873, 874, 1497, 1513.

162. **Graphis** (s. **Solenographa**) **anfractuosa** Eschw. Bras., p. 86: corticola, Lake Tyers : Wilson, n. 1492.

163. **Graphis** (s. **Eugraphis**) **scripta** v. **pulverulenta** Ach. Syn., p. 82; ad corticem *Hymenantheræ Banksii*, Maffra : Wilson, n. 871.  
— — v. **serpentina** Nyl. Scand., p. 252; corticola, Lakes Entrance : Wilson, n. 1490 pr. p.

164. **Graphis** (s. **Phanerodiscus**) **Wilsonianæ** Müll. Arg.; thallus ochroleuco-albus, grammioso-pulveraceus, tenuis; lirellæ innatae, astroideo-brevirameæ, circ. 1-2 mm. æquantes. rami evoluti discum  $1/2$  mm. latum, planum, subnigrum, cæsio-pruinosum, haud emergentem ostendentes et margine proprio tenuissimo lineoliformi vix emergente

cineti: perithecium nigro-fuscum, tenuissimum, basi deficiens; epithecium nigrescenti-fuscum; lamina hyalina, haud spumoso-vesiculosa; ascii 8-spori; sporae fusiformes, 10-16-loculares, semper hyalinæ, 45-50  $\mu$  longæ, 8-9  $\mu$  latæ. — Habitu non male formas quasdam *Phaeographidis inustæ* (Ach.) Müll. Arg. simulat, sed thallus magis evolutus, grosse subfarinosus et sporæ utrinque angustatae et semper hyalinæ. — Sectio **Phanerodiscus**: perithecium laterale, tenue, nigro-fuscum; discus planus, late apertus, niger; sporarum loculi ultra 4. — Corticola, Lakes Entrance : Wilson, n. 1495.

165. **Graphis** (s. **Fissurina**) **nitida** Montg. Cab., p. 170: corticola, Warburton : Wilson, n. 884.
166. **Graphis** (s. **Fissurina**) **Dumastii** Nyl. Enum. gén., p. 130: corticola, ad Black Spur : Wilson, n. 913.
167. **Graphis** (s. **Fissurina**) **glauca** Müll. Arg.; thallus glauco-viridis, statu sicco olivaceo-pallidus, tenuissimus, lœvigatus et nitidulus: lirellæ immersæ et fissuram nigram prominentia thallina subboseleta marginata simulantes, lineares, simplices et bifurcatæ, varie curvatæ,  $\frac{1}{2}$ - $1\frac{1}{2}$  mm. longæ, madefactæ magis emergentes et labia tenuia integra thallino-duplicata sed sunno apice nudo-nigra tum paullo distantes, unde discus depresso, fuscus et nudus tum perspicuus: pars thallina labiorum madefacta ferrugineo-tingitur; perithecium superne nigro-fuscum, inferne evanescens, subtus deficiens, madefactum  $\frac{15}{100}$  mm. latum; hypothecium crassum, hyalinum; sporæ 8-næ, oblongo-ellipsoïdæ, 4-loculares, 18-25  $\mu$  longæ et 9-10  $\mu$  latæ. — Habitu nonnihil ad *G. grammicoides* Fée accedit, sed lirellæ de supra visæ atræ et sporæ multo maiores sunt. A proxima et subsimili *G. lœvigate* Müll. Arg. marginibus acutis nigris et sporis duplo majoribus differt. — Corticola, Warburton : Wilson, n. 884.
168. **Graphina** (s. **Aulacographina**) **sophistica** (Nyl.) Müll. Arg. L. B., n. 148; corticola ad *Notaleam ovatam* secus Lakes Entrance : Wilson, n. 1490 pr. p. 1514, et ad *Hymenantheram Banksii*, Maffra : Wilson, n. 869 (labia in his specim. sèpius lœvia, at tota minus bene evoluta).
169. **Graphina** (s. **Thalloloma**) **subaggregans** Müll. Arg: thallus albus v. denum ochroleuco-albus, tenuissimus, primum lœvis, dein decorticando-farinulentus: lirellæ innato-immersæ, parvæ,  $\frac{1}{2}$  mm. latæ, sèpe 2-3-pli longiores quam latæ, simplices et varia subastroideo-brevirameæ, undique valide strato thallino obtectæ, dense sparsæ v. subaggregatae; labia crassiæcula, sicca fere clauso-conniventia, madefacta latius discreta; discus planus, obscure livido-carneus, leviter cinereo-pruinosus; perithecium in sectione undique hyalinum, attamen apice juxta ultimum marginem disci anguste et breviter fuscum (ut in multis *Thelotrema*), basi lata deficiens; epithecium fuscidulum; hypothecium hyalinum; sporæ 8-næ, 16-20  $\mu$  longæ, 6-8  $\mu$  latæ, fusiformi-

ohovoideæ, 6-8-loculares, loculi latiores longitrorsum semel divisi. — Prope *Graphinam aggregantem* (Nyl.) Müll. Arg., e Nova Granata, locanda est, a qua differt lirellis multo minoribus et sporis non 4-locularibus. — Corticola, ad truncos *Hymenantheræ Banksii* prope Maffra : Wilson, n. 883 : Lakes Entrance : Wilson, n. 1524.

170. **Phæographina** (s. *Mesochromatium*) *Banksiæ* Müll. Arg.; thallus fulvo-fuscescens, tenuissimus, lævigatus: lirellæ emerso-adpressæ, lineares, simplices et hinc inde divergenter bifurcatæ,  $\frac{3}{8}$  mm. latae, 1-5 mm. longæ, rectiusculæ, vulgo utrinque obtusæ, extus saltem inferne strato thallino duplicatae: labia statu secco conniventia et leviter hiantia, obtusa, turgidula, madefacta late hiantia et discum planum nigrescenti-rufum et nudum denudantia: peritheciun laterale, nigrum, basi late deficiens; sporæ in ascis 8-næ, 18-28  $\mu$  longæ et 8-10  $\mu$  latae, oblongo-ellipsoideæ: 3-5-loculares, loculi intermedii 2-locellati. — Est quasi *Ph. Montagnei* (v. d. Bosch) gracilior, perithecio basi deficiente et sporis parvis, et sectionem *Phæographina* novam, *Mesochromatium* formans sequentibus distinctam: lirellarum peritheciun basi deficiens, lateraliter undique nigrum, discus planus, coloratus. — Corticola ad ramos *Hymenantheræ Banksii*, Maffra : Wilson, n. 879.

171. **Arthonia gregaria** v. *adspersa* Müll. Arg. L. B., n. 1492: corticola. Lakes Entrance : Wilson, n. 1593.  
 — — v. *purpurea* (Egeh.) Müll. Arg. L. Ballend., n. 53: corticola. Maffra : Wilson, n. 883.  
 — — v. *nudata* Müll. Arg. L. Tonkin., p. 27; corticola in *Hymenantheræ Banksii* ad Maffra : Wilson, n. 887. et ad Lake Tyres : Wilson, n. 1591.

172. **Arthonia nigro-rufa** Müll. Arg.: thallus albus, tenuis, pulverulentus: apothecia secca nigra, madefacta rufa, eximie multiformia, anguloso-orbicularia, circ.  $\frac{1}{2}$  mm. lata, nunc magis astroideo-lobata v. divisa, nunc angustiora et 2-4-plo longiora quam lata, juniora subemergentia, pulverulenta, evoluta innato-superficialia et nuda, planiuscula; epitheciun nigro-et rufo-fuscum: hypothecium hyalinum; sporæ 8-næ, 13-16  $\mu$  longæ, 5-6  $\mu$  latae, late digitiformes, 4-loculares, loculus summus major. — Juxta graciliorem *A. novellam* Krplh. disponenda est. — Corticola ad Lakes Entrance : Wilson, n. 1579.

173. **Arthonia microsperma** (Fée) Nyl. Enum. gén., p. 133, Müll. Arg. L. B., n. 1092: ad corticem *Banksiæ serratae* prope Cheltenham : Wilson, n. 885.

174. **Arthonia dispersa** Nyl. Scand., p. 261; corticola, ad Camperdon : Wilson, n. 903, et ad Gulong : Wilson, n. 1595.

175. **Arthonia Banksiæ** Müll. Arg.; thallus maculiformi-tenuis, fuscidulo-albidus; apothecia circ.  $\frac{1}{4}$  mm. lata, lineari-oblonga, rarius et orbiculari-angulosa, longiora quam lata, simplicia v. obsolete bifurcata,

hinc inde 2-4-natim conferta, sicca nigra, madefacta leviter pallidiora, convexiuscula; statu sicco lineis duabus longitrosis prominulis submarginata; epithecium olivaceo-nigrum; hypothecium hyalinum; sporæ in ascis globoso-obovoideis 8-næ, hyalinæ, 11-15  $\mu$  longæ, 5-6  $\mu$  latæ, biloculares. — A simili *A. microspermate* Nyl. differt apothecis magis linear-i-oblóngatis et dein sporis subdupo majoribus. *A. dispersa* Nyl. quoad sporas convenit at apothecia sunt valde gracilia. — Corticola ad ramos *Bauksia serratae*, Mordialloc : Wilson, n. 885. Lakes Entrance : Wilson, n. 1585, et prope Cheltenham : Wilson, n. 885 pr. p.

176. **Arthonia lecideola** Müll. Arg.; thallus haud visus: apothecia nigra,  $\frac{3}{10}$  mm. lata, orbicularia v. leviter oblongata, ambitu integro-regularia et vulgo *Buelliam* simulantia, sessilia, convessa, nuda et opaca, statu sicco saepe subtiliter spurie marginata, intus obscura: epithecium olivaceo-nigrum; hypothecium olivaceum: asci obovoidei, 8-spori: sporæ 2-loculares, 16-18  $\mu$  longæ, 7-9  $\mu$  latæ, obovoideæ, medio modice constrictæ. — Habitu *A. palmicolam* Ach. in mentem revocat, sed apothecia subregularia et sporæ aliter divisæ sunt. Prope japonicam *A. Henonianam* Müll. Arg. et *A. pandanicolam* Nyl. locum habeat. — Ad ligna vetusta, Sandringham : Wilson, n. 1584.
177. **Arthonia Thozetiana** Müll. Arg. L. B., n. 524; in ramulis *Berberidis vulgaris* hortorum, Boroondara : Wilson, n. 914.
178. **Arthonia propinqua** Nyl. Nov. Gran., p. 106; corticola, ad *Drymidem aromaticam*, Black Spur : Wilson, n. 934.
179. **Arthonia complanata** Fée Ess., p. 54 et Suppl., t. XL, fig. 40: Müll. Arg. Graphid. Féean., p. 58; corticola, Warburton : Wilson, n. 926, 930; Lakes Entrance : Wilson, n. 1589, in *Elaeocarpa cyaneo* ad Black Spur : Wilson, n. 933.
180. **Arthothelium pulverulentum** Müll. Arg.; thallus quasi maculam ochroleuco-albam formans, tenuissimus et continuus, lèvis; apothecia circ.  $\frac{1}{3}$ - $\frac{1}{2}$  mm. lata, ex orbiculari oblongata v. irregulariter angulosa, raro obsolete bifurcata, erumpentia, pulveraceo-velata et grisea, deumum nudiora et nigra, madefacta obsolete fuscescentia aut colore non mutata, semper plana; epithecium olivaceo-nigrum; lamina cum hypothecio hyalina: asci obovoidei, 8-spori; sporæ ellipsoideæ, 14-16  $\mu$  longæ et 6-7  $\frac{1}{2}$   $\mu$  latæ, 4-6-loculares, loculi bilocellati. — Juxta africana *A. atrorufum* et *A. consanguineum* inserendum est, a quibus distat apothecis magis velatis et magis innatis nec non sporis minoribus. — Corticola, Camperdown : Wilson, n. 880.
181. **Arthothelium velatius** Müll. Arg.; thallus glauco-albus, tenuissimus, continuus et lèvis; apothecia nigra, thallino-velata et parum perspicua, madefacta griseo-nigricantia, suborbicularia et plus minusve linear-i-oblóngata,  $\frac{1}{4}$  mm. lata, deumum 2-4-plo longiora quam lata, leviter convexa; epithecium virenti-nigricans; asci oblongo-ellipsoidei et

obovoidei, 8-spori; sporæ evolutæ 25-33  $\mu$  longæ, 9-13  $\mu$  latæ, oblongatae, circ. 9-14-loculares et crebre locellosi, locelli in quaque serie 3-5. — Apothecia obtecto-velata et sporæ majores et magis divisæ quam in affinibus *A. albido* Müll. Arg. et *A. Beccariano* Bagl.: a proximo *A. velato* Müll. Arg., quocum sporis bene convenit, recedit apotheciis magis velatis, paullo minoribus, non astroideo-subangulosis, ambitu demum oblongatis. — Corticola, ad Bloomfield : Wilson, n. 936, ad Oakleigh : Wilson, n. 1586, 1703.

182. ***Arthothelium interveniens*** (Nyl.) Müll. Arg. in Bot. of Socotra, p. 382; corticola prope Warburton : Wilson, n. 935.
183. ***Arthothelium ampliatum***; *Arthonia ampliata* Kn. et Mitt., Nyl. L. Nov. Zeland., p. 122; corticola, Lake Tyers : Wilson, n. 1575.
184. ***Abrothallus Parmeliacarum*** (Sommerf.) Arnold iu Flora 1874, p. 402; supra thallum *Parmeliacarum*, Maffra : Wilson, n. 1003.
185. ***Mycoporum pycnocarpum*** Nyl. in Flora 1858, p. 381; corticola, ad Lake Tyers : Wilson, n. 925.
186. ***Sarcographa labyrinthica*** Müll. Arg. L. B., n. 1100: corticola secus Lakes Entrance : Wilson, n. 890.
187. ***Chiodecton grossum*** Müll. Arg.; thallus olivaceo-cinerascens, tenuis, continuus, submollis, hinc inde inaequalitatibus substrati lacero-disjunctus ibique albo-byssinus; stromata pro genere majuscula, 1½-2 mm. lata, subhemisphaerica v. ambitu paullo irregularia, convexa, undique crebre apotheciigera; apothecia innata, superficiem stromatum attingentia; disculi denum nudi, nigro-fusci, evoluti  $^{10}/_{100}$ - $^{15}/_{100}$  nim. lati, juniores multo minores, denum linea albiore thalli cincti; hypothecium profunde fusco-nigrum; sporæ 8-næ, valide bacillares, 32-50  $\mu$  longæ, 3½-4  $\mu$  latæ, 4-loculares. — Simile *Ch. perplexo* Nyl., sed thallus minus albidus et disculi apotheciorum multo minores et multo numerosiores. A proximo *Ch. argillaceo* Müll. Arg. differt colore thalli et sporis majoribus. — Corticola, Lake Wat-Wat : Wilson, n. 1608.
188. ***Chiodecton sphærale*** Ach. Syn., p. 108: corticola ad Lake Tyers : Wilson, n. 888.
189. ***Chiodecton velatum*** Müll. Arg.: thallus cinereo-albidus, maculiformis, continuus, denum evanescens, ambitu non byssinus; stromata hemisphaerico-convexa, sed ambitu irregularia et varie gibbosa, cæterum simillima iis *Ch. hypochnoidis* Nyl., sed undique polycarpica, interdum varie confluentia v. etiam depauperata et oligo-monocarpica: disculi apotheciorum ut in comparata specie, sed impure nigra, dein cinerascenti-velata et cinereo-fuscidula, denum nuda: sporæ octonæ, circ. 45  $\mu$  longæ et 3½  $\mu$  latæ, inferne longe attenuatæ, 3-loculares. — Disculi majores quam in *Ch. sphærali* Ach. et minores magisque numerosi quam in *Ch. subdepresso* Müll. Arg., quod inter et præcedens bene locandum est. Haud vestigium adest ambitus byssini, sed reliqui

characteres cæterum ad *Ch. hypochnoides* Nyl. bene accidunt, excepto margine ipso stromatum similiter disculis ornato. — Corticola, Lakes Entrance : Wilson, n. 1609 (et 1607, hoc male evolut.).

190. **Chiodecton subdepressum** Müll. Arg.; thallus obscure argillaceo-cinereus, tenuissimus, demum rimosus, margine zonula linearis nigro-fusca haud byssino-limitatus; stromata  $\frac{1}{2}$ -1 mm. lata, irregulariter orbicularia, depressula, circ. 2-12-carpica, hinc inde confluentia, aequaliter dense sparsa; disculi apotheciorum  $\frac{10}{100}$ - $\frac{18}{100}$  mm. lati, orbicularis et elliptici, subinde confluentes, nigri et nudi; hypothecium profunde fusco-nigrum: sporæ 8-næ, circ. 45  $\mu$  longæ et 3  $\mu$  latæ, 4-loculares. — Juxta proximum *Ch. depressum* Fée locandum est, a quo recedit stromatibus majoribus, magis polycarpicis, disculis autem minoribus et sporis angustioribus. — Corticola ad Warburton : Wilson, n. 889 (sub *Ch. leptosporo*).

191. **Chiodecton (s. Enterographa) divergens** Müll. Arg.: thallus leviter fuscescenti-cinereus, tenuissimus, laevis et leviter rugulosus, superficie firmus; stromata creberrima, thallum diffracto-areolatum fere simulantia, ambitu multiformia, crassiuscula, convexa, vulgo monocarpica, rarius oligocarpica, vulgo marginem accessorium thallinum lirellarum referentia; apothecia obsolete emergentia,  $\frac{1}{4}$ -1 mm. longa, circ.  $\frac{13}{100}$  mm. lata, novella e punctiformi oblongata et linearia, varie curvata saepaque divergenter 4-2-ramuligera, nigra v. subnigra et nuda: perithecium in sectione intus superne breviter nigro-fuscum, cæterum hyalinum, subtus deficiens; lamina hyalina; asci angusti. 8 spori: sporæ 24-32  $\mu$  longæ, 3-4  $\mu$  latæ, linearis-fusiformes, subrectæ, utrinque subæqualiter et leviter angustatae, 8-loculares. — A proximo *Ch. stellulato* (Fée) differt stromatibus bene evolutis, lirellis validioribus et aliter ramosis et sporis inferne non caudato-acuminatis. — Corticola, in *Banksia serrata*, Cheltenham : Wilson, n. 870.

### TRIB. DERMATOCARPEÆ Müll. Arg. Pyrenoc. Cub., p. 377.

192. **Normandina pulchella** (Borr.) Nyl. Nov. Zeland., p. 127; supra *Frullanias* et muscos minores ad truncos arborum, Maffra : Wilson, n. 1618.

### TRIB. ENDOPYRENIEÆ Müll. Arg. Pyrenoc. Cubens., p. 377.

193. **Endopyrenium hepaticum** Körb. Par., p. 302; ad terram, Warrnambool : Wilson, n. 988.  
 194. **Endocarpon Victoriae** Müll. Arg.; squamæ thalli ut in *Endopyrenio hepatico* Körb., adpressæ; apothecia et gonidia hymenalia ut in *Endo-*

*carpo pusillo* Hedw., sed sporæ in ascis solitariæ, multo majores, 75-80  $\mu$  longæ et 30  $\mu$  latæ. — Ad terram argillaceam prope Cheltenham : Wilson, n. 988.

TRIB. PYRENULEÆ Müll. Arg. Pyrenoc. Cubens., p. 381.

195. **Parmentaria Ravenelii** (Tuck.) Müll. Arg. L. B., n. 828; corticola prope Warburton : Wilson, n. 941.
196. **Verrucaria mucosa** Wahlbg. in Ach. Meth. Suppl., p. 23; super saxa arenacea maritima vulgo submersa, Sandringham : Wilson, n. 939 (male evoluta).
197. **Verrucaria maura** Wahlbg. in Ach. Meth. Suppl., p. 19; ad saxa maritima, Sandringham : Wilson, n. 948.
198. **Verrucaria ceuthocarpa** Wahlbg. ap. Ach. Meth. Suppl., p. 22; supra saxa calcarea, ad Warrnambool : Wilson, n. 814 (sine apotheciis).
199. **Verrucaria muralis** Nyl. Pyrenoc., p. 32; supra saxa arenacea prope Lorne : Wilson, n. 526, et ad saxa calcarea prope Warrnambool : Wilson, n. 930.
200. **Limboria sphinctrina** Duf. ap. El. Fries L. Europ., p. 456: supra saxa calcarea prope Warrnambool : Wilson, n. 933.
201. **Porina (s. Segestrella) elegantula** Müll. Arg.: thallus cinerascens, tenuissimus, tantum vertigiis visus; apothecia  $\frac{1}{4}$  mm. lata, alte hemisphærica, regularia et lævia, nitidula, rubricose fulva; peritheciū sub microscopio fulvum; asci angusti, 8-spori; sporæ 40-50  $\mu$  longæ,  $1\frac{1}{2}$ -2  $\mu$  latæ, tota longitudine subæquilatae, utrinque subobtusæ, 12-16-loculares. — Est species eximie distincta et pulchella. Apothecia superne subinde leviter pallidiora, vertice integra, demum perforato-ostiolata. — Corticola prope Warrnambool : mixta cum *Porina subargillacea* Müll. Arg. : Wilson, n. 931 pr. p.
202. **Porina (s. Euporina) corrugata** Müll. Arg.; thallus albidus, tenuissime tartareus, rimulosus, mox evanescens; apothecia  $\frac{2}{3}$  mm. lata, alte hemisphærica, strato thallino crassiusculo superne demum nigrescente et irregulariter grosse verrucoso-corrugato obtecta, demum 1 mm. lata; peritheciū globosum, apice nigratum, cæterum flavo-pallidum; sporæ in ascis 8-næ, 15-17  $\mu$  longæ,  $4\frac{1}{2}$   $\mu$  latæ, fusi-formes, 4-loculares v. raro et 6-loculares. — Species extus inamoena, macra, sed characteribus ab omnibus eximie distincta. Apothecia extus hinc inde composita apparent, in sectione transversali autem nucleo amplio regulari unico praedita sunt. — Ad saxa calcarea prope Warrnambool ; Wilson, n. 946 pr. p.
203. **Porina (s. Euporina) Wilsoniana** Müll. Arg.; thallus nigrescenti-cinereus, tenuissimus, obsolete leprosus; apothecia circ.  $\frac{4}{10}$  mm.

lata, globoso-hemisphærica, basi constricta, thallino-vestita, apice latiuscule nigra, parte thalliua superne demum obsolete verrucosa; perithecium subglobosum, basi attenuatum, undique flavescenti-pallidum, summo apice in disculum nigrum circ.  $\frac{1}{10}$  mm. latum nudum abiens; sporæ in ascis 8-næ, imbricatim 4-serialis, fusiformes, 14-20  $\mu$  longæ et 4  $\mu$  late, 4-loculares. — Species valde distincta, nulli cognitarum arte affinis, extus tamen nonnihil ad *P. rudiunculam* (Nyl.) Müll. Arg. accedit, sed aliter colorata est et sporarum magnitudo et divisio omnino recedunt. Sporæ fere ut in *P. corrugata* Müll. Arg. — Corticola in Banksia ad Sandringham : Wilson, n. 947.

204. **Porina** (s. **Rhaphidopyxis**) **subargillacea** Müll. Arg.; thallus obscure argillaceus, tenuissimus, subtiliter rimosus; apothecia circ.  $\frac{3}{10}$  mm. lata v. leviter majora, alte hemisphærica, basi paullo constricta, nigra, nitidula, apice primum rotundata, dein subirregulariter depresso-umbilicata; perithecium subglobosum, basi tenuius; sporæ in ascis late linearibus 8-næ, 35-42  $\mu$  longæ, 2-2 $\frac{1}{2}$   $\mu$  latæ, 8-loculares. — Extus americanum *P. Cestrensem* (Tuck.) Müll. Arg. fere bene refert quoad apothecia, sed thallus aliis et sporæ valde angustæ. — Corticola prope Warrnambool : Wilson, n. 951.
205. **Arthopyrenia** (s. **Euarthopyrenia**) **atomaria** Müll. Arg. Lich. Genève, p. 89; ramulicola, ad Camperdown : Wilson, n. 984.
206. **Arthopyrenia** (s. **Euarthopyrenia**) **stenotheaca** Müll. Arg.; thallus macula obscure cinerascente indicatus; melanohyphe et gonidia hinc inde evoluta; apothecia semiimmersa, nigra, nuda, opaca, parte emersa hemisphærica; perithecium completum, basi tamen attenuatum et planiusculum ibique ad angulos rotundatum, paullo latius quam altum, infra medium  $\frac{1}{5}$ - $\frac{1}{3}$  mm. latum; paraphyses capillares, firmæ, laxè connexæ; asci lineares, 4-serialis 8-spori; sporæ 13-19  $\mu$  longæ, absque membrana late gelatinosa 4-5  $\mu$  latæ, 2-loculares; loculus uterque panduræformis. — Prima fronte *A. atomaria* Müll. Arg. simulat, sed asci lineares et loculi medio subsinuato-angustati sunt, et ab *A. analpta* Mass. ut simul ab *A. atomaria* recedit perithecio basi completo et paraphysis bene evolutis. — Corticola ad Bulleen : Wilson, n. 982.
207. **Pyrenula** **mamillana** Trev. Consp. Verruc., p. 13; corticola, ad Warburton : Wilson, n. 943, 962.
208. **Pyrenula** **Kunthii** Fée Suppl., p. 80; corticola, prope Warburton : Wilson, n. 944, et ad Black Spur : Wilson, n. 955 (hæc minus bene evoluta).
209. **Pyrenula** **porinoides** Ach. Syn., p. 128; corticola, prope Warburton : Wilson, n. 945.
210. **Pyrenula** **annulata** Müll. Arg.; thallus flavescenti-olivaceus, determinatus, tenuis, continuus et polito-lævigatus, nitidulus; apothecia

innata, tantum ostiolo emergentia et protuberantia thallina leviuscula lata et basi sensim in thallum abeunte indicata, juniora omnino tecta : ostiolum minutum, annulo decolorato-albido cinctum, et anuuulus cingens similiter annulo fusco v. nigrescente cinctus et demum apex totus nigricans: peritheciun subglobosum,  $\frac{4}{5}$ - $\frac{5}{6}$  mm. latum, completum et unidique nigrum: asci imbricatim 4-serialiter 8-spori; sporae 14-16  $\mu$  longae, 8-9  $\mu$  latæ, turgide ellipsoideæ, 4-loculares; loculi terminales reliquis multo minores. — Thallus ut in *P. nitidella* Müll. Arg., sed apothecia apice haud nudato-emergentia et majora, et juxta hanc et *P. hypophytam* [Nyl.] magis dissimilem locanda est. Situ apotheciorum simul etiam a *P. nitida* Ach. differt. — Corticola, ad Black Spur : Wilson, n. 1668.

211. **Pyrenula nitida** Ach. Syn., p. 125: corticola, ad Lake Tyers : Wilson, n. 1669, 1670.

Genève, 18 janvier 1893.



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