

# LICHENES ECKFELDTIANI

a cl. Dr J.-W. ECKFELDT

PHILADELPHIENSI, PRÆSERTIM IN MEXICO

LECTI, QUOS ENUMERAT

Dr J. MÜLLER

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1. **Tylophorum Eckfeldtii** Müll. Arg.; thallus virenti-albus, tenuissimus, subtiliter et crebre granulosis. granula hemisphærica; apothecia  $\frac{2}{3}$  mm. lata, orbicularia, duplo latiora quam alta, novella strato thallino velata, evoluta late truncata, nonnihil albo-pulverulenta, dorso albida, margine nigro tenuissimo discum cingente ornata; massa sporalis demum nigra, haud emergens, intra marginem proprium diu annulo albido (vestigiiis thalli) cincta; sporæ 8-9  $\mu$  longæ, 3-6  $\mu$  latæ, rectæ v. incurvæ, 3-loculares, locus intermedius reliquis latior et obscurior. — Nulli nisi *T. triloculari* Müll. Arg. L. Exot., n. 49, e Queensland, affine est, et ab eo differt thallo virente, crebre granuloso, sporis regulariter 3-ocularibus, minoribus et ambitu non obesis. — Corticola, in Mexici prov. Jalisco : n. 220.
2. **Sphærophoron polycladum** Müll. Arg. Lichenolog. Beitr., n. 1217 et 1382; in Patagonia leg. J. Summers et commun. Dr Eckf. : n. 2.
3. **Stereocaulon ramulosum** Ach. f. **proximum**; *St. proximum* Nyl. Syn., p. 237; Bolivia, n. 3.
4. **Sticta endochrysea** Del. v. **orygmæoides** Müll. Arg. Lich. Cap Horn, n. 46; in Patagonia leg. Summers : Dr Eckf., n. 1.
5. **Physcia obscura** v. **ulotrichoides** Nyl. in Prodr. Nov. Gran., p. 26; corticola, ad Monterey (Mexico) : n. 67.
6. **Parmeliella triptophylla** Müll. Arg. Enum. L. Genève, p. 36; corticola, in Mexici prov. Jalisco : n. 27.
7. **Phyllopsora microsperma** Müll. Arg.; thallus glauco-albidus v. glaucovirens, dense squamulosus; squamulæ  $\frac{1}{5}$ - $\frac{1}{3}$  mm. latæ, minores subor-

- biculares, majores obtuse breviter crenato-lobatæ v. latius 2-3-lobatæ, ambitu tamen suborbiculares, adpressæ v. leviter adscendentes, imbricatæ, subtus albidæ ibique et margine albo-pilosulæ; apothecia nigricanti-fusca, orbicularia,  $\frac{1}{3}$  mm. lata v. demum proliferando syncarpica et 2-3-plo majora, etiam novella immarginata; hypothecium crasse fulvo-nigrum, superne obscure fulvum et sensim in laminam abiens; asci angusti, subuniseriatis 8-spori; sporæ tantum  $2\frac{1}{4}$ - $4\frac{1}{2}$   $\mu$  longæ, ellipsoideæ. — Habitu ad *Ph. albicantem* Müll. Arg. valde accedit, ubi hypothallus pannosus similiter deest, sed sporæ sunt absolute aliæ. — Corticola, in Mexici prov. Jalisco : Dr Eckfeldt, n. 190.
8. **Phyllopsora parvifolia** Müll. Arg.; *Psora parvifolia* Müll. Arg. L. B., n. 463; corticola, in Mexico ad Monterey : n. 234.
9. **Lecanora subfusca** v. **horiza** Ach. Univ., p. 394; corticola, in Mexico ad Monterey : n. 152.
10. **Lecanora glaucella** Fw.; Stitzenb. Lich. helv., p. 116; lignicola in Mexico prope Monterey : n. 112.
11. **Lecanora subochracea** Müll. Arg.; thallus argillaceo-ochraceus, orbicularis, ambitu flavido-expallens et effusus, subtiliter granuloso-rugosus, tenuissimus; apothecia  $\frac{3}{4}$  v. fere 1 mm. lata et minora, sessilia, plana, persistenter et tenuiter marginata; margo thallinus extus lævis, intus subtiliter crenulatus; discus planus, nudus, fuscus; epithecium fulvescens; hypothecium hyalinum; sporæ 8-næ, 11-13  $\mu$  longæ, 6-7  $\mu$  latæ, ellipsoideæ et ovoideæ. — Præter colorem thalli valde ad *Lecanoram subfuscam* Ach. accedit et prope cubensem *L. subflavam* Nyl. inserenda est. — Corticola in sandwicensi insula Hawaii : Dr Eckfeldt, n. 401.
12. **Lecanora gibbosa** Nyl. Scand., p. 154; lignicola, British Columbia : n. 169.
13. **Lecanora tartarea** v. **telephoroides** Th. M. Fr. L. Spitzberg., p. 21; Labrador (sterilis, optime cum specim. cel. auctoris congruens) : n. 10.
14. **Callopisma xanthaspis** Müll. Arg. Obs. in L. Krempelth. argent., n. 66, *Lecanora erythroleuca* v. *subcerina* Nyl. in Flora 1869, p. 119; *Lecanora xanthaspis* Krph. L. Argent., n. 66; *Callopisma australe* Müll. Arg. L. B., n. 249; corticola, in Mexico ad Monterey : n. 238.
15. **Lecidea agelæa** Sommit. Suppl., p. 144; Labrador : Dr Eckf., n. 112.
16. **Patellaria** (s. **Biatorina**) **griseo-nigella** Müll. Arg.; thallus albus, maculiformi-tenuis, effusus, verniceo-lævis; apothecia  $\frac{1}{4}$ - $\frac{1}{2}$  mm. lata et minora, subnigra, halone thallino griseo-nigella facta, laxè sessilia, basi constricta, novella pro parte in margine pallidiora, mox convexa, demum compacto-symphycarpica, mollia; hypothecium crassum, nigrescenti-fuscum, lamina cæterum subhyalina; sporæ in ascis 8-næ, 2-loculares, 9-10  $\mu$  longæ et 3-3  $\frac{1}{2}$   $\mu$  latæ, anguste fusiformi-ellipsoideæ. — Juxta japonicam *P. livido-nigricantem* Müll. Arg. inserenda est. — Ad ligna vetusta, in Mexici prov. Jalisco : Dr Eckfeldt, n. 400.

17. *Patellaria rubellula* Müll. Arg. L. Exot., n. 22; *Lecidea rubellula* Nyl. Prodr. Nov. Granat. 2, p. 60, et Syn. L. Nov. Caledon., p. 48; corticola, in Mexico prope Monterey : n. 228.
18. *Patellaria* (s. *Bacidia*) *ærginosa* Müll. Arg.; thallus ærginoso-cinereus, tenuissimus, pulverulentus; apothecia  $^{20}_{100}$ - $^{35}_{100}$  mm. lata, superficialia, pro minutie crassula, convexula, immarginata, novella tamen in periphèria non prominente pallidiora, carnea, dein livido-carnea et fuscèscèntia et subinde demum e rufulo nigricantia; epithecium et lamina hyalina; hypothecium hyalino-fulvescens; sporæ in ascis 8-næ, 6-8-loculares, lineari-subfusiformes, circ. 26-30  $\mu$  longæ et 3  $\mu$  latæ. — A *P. hostheleoidè* (Nyl.) Müll. Arg. recedit colore thalli et apotheciis junioribus non prominenter marginatis et multo minoribus, et a proxima *P. nigro-fusca* Müll. Arg. differt thallo, apotheciorum colore et forma et hypothecio non pallide fusco. — Corticola, prope Monterey, Mexico : Dr Eckfeldt, n. 250.
19. *Patellaria alutacea*; *Lecidea alutacea* Krphl. L. Argent., n. 88; corticola, in Mexico prope Monterey : n. 163, 173.
20. *Patellaria millegrana* (Tayl.) Müll. Arg. L. B., n. 204; corticola, in Mexico prope Monterey : n. 241.
21. *Patellaria* (s. *Bacidia*) *Eckfeldtii* Müll. Arg.; thallus olivaceo-v. fuscècenti-cinereus, minute et irregulariter granularis v. pulveraceo-granularis; apothecia 1 mm. et paulo ultra lata, sessilia, plana, prominenter marginata, demum convexula et subimmarginata, in margine et dorso peritheciis junioris nitiduli ferrugineo-rufa, mox autem undique nigra et opaca; epithecium obscure cupreo-sanguineum; hypothecium hyalinum; sporæ in ascis 8-næ, circ. 90  $\mu$  longæ et 4  $\mu$  latæ, modice spiraliter curvatæ, 14-18-loculares. — Species bene distincta, juxta *Patellariam olivaceo-rufam* Müll. Arg. L. B., n. 1033, s. *Lecideam olivaceo-rufam* Zenk. in Gœb. Pharm. Waarenk. I, p. 132, t. 17, fig. 6, inserenda est, ubi apothecia, præter alia, minora et discus rufus, margine lætius nec obscurius tinctus. — Trabicola, prope Monterey, Mexico : Dr Eckfeldt, n. 49.
22. *Biatorinopsis lutea* Müll. Arg. L. B., n. 254; corticola, in Mexico ad Monterey : n. 171, 172.
23. *Leptotrema mastoideum* Müll. Arg. L. B., n. 1184; corticola, prope Monterey : n. 209.
24. *Dictyographa contortuplicata* Müll. Arg.; thallus pallido-fuscus, maculari-tenuissimus, lævigatus et firmus; lirellæ circ. 1-2 mm. longæ et circ.  $^{18}_{100}$ - $^{22}_{100}$  mm. latæ, sessiles, lineares, simplices et bifurcatæ, gregatim densiuscule approximatae et vulgo varie curvatæ et intricatim contortuplicatæ, rufo-nigræ et nudæ; labia turgida, conniventia; epithecium subelansum; perithecium basi valde completum; sporæ 8-næ, hyalinæ, circ. 35  $\mu$  longæ et 8  $\mu$  latæ, 8-10-loculares, loculi 2-locellati.

- Juxta socotrensem *D. variantem* Müll. Arg. inserenda est, a qua jam thalli colore et dispositione lirellarum aliarum differt. — Corticola, in Bolivia : Dr Eckfeldt, n. 1440.
25. **Melaspilea** (s. **Holographa**) **leucinoides** Müll. Arg.; thallus albidus, tenuissimus, farinulentus; lirellæ  $\frac{1}{2}$ -1  $\frac{1}{2}$  mm. longæ,  $\frac{2}{10}$ - $\frac{3}{10}$  mm. latæ, simplices (v. raro bifurcatæ), rectæ aut curvulæ, sessiles, elatæ, ad extremitates obtusæ; labia crassiuscula, nigra, tenuissime longitrorsum 4-sulcata, subconniventia; perithecium basi valide completum; epithecium rimiforme, strato thallino albo obtectum: sporæ 8-næ, 28-34  $\mu$  longæ, 6  $\frac{1}{2}$ -8  $\mu$  latæ, utrinque late obtusæ, 4-8-loculares. — A proxima australiensi *M. leucina* Müll. Arg. differt labiis validioribus, sulcatulis et sporis longioribus et magis divisis. Habitu etiam ad paraguayensem *M. leucoschisma* accedit, sed validior, sulcatula, et perithecium basi non deficiens. — Corticola, in Mexici prov. Jalisco : Dr Eckfeldt, n. 216 et prope Monterey (Eckf., n. 170, sed hæc tantum absque sporis missa).
26. **Melaspilea** (s. **Melaspileopsis**) **polymorpha** Müll. Arg.; thallus fuscocenti-pallidus, maculiformi-tenuissimus, lævigatus; lirellæ circ.  $\frac{13}{100}$ - $\frac{18}{100}$  mm. latæ, ambitu eximie variantes, aliæ vix latitudine longiores et dein aliæ sensim sensimque longiores et 1 mm. longitudine attingentes, semper simplices, rectæ v. subrectæ, sessiles, elatæ, utrinque obtusæ, undique nudo-nigræ; labia sicca conniventia, madefacta late hantia et epithecium planum nudum tum hand superantia, integra et sat tenuia; perithecium basi valide completum; sporæ 4-8-næ, oblongatobovoideæ, medio paullo constrictæ, 14-17  $\mu$  longæ et 5-7  $\mu$  latæ. — Juxta magis micro-oxycarpam *M. acutam* Müll. Arg., in Costarica lectam, locanda est. — Corticola, prope Monterey in Mexico : Dr Eckfeldt, n. 98.
27. **Graphis tenella** v. **abbreviata** Müll. Arg. L. Costar., n. 141; corticola, Canary Island : H. Grun., Eckf., n. 41 (sine sporis).
28. **Graphina sophistica** Müll. Arg. L. B., n. 148; *Graphis sophistica* Nyl. Prodr. Nov. Gran., p. 74; corticola, in Mexico ad Monterey : n. 86.
29. **Graphina cæσιο-radians**; *Graphis cæσιο-radians* Leight. L. Ceyl., p. 176; corticola, in Mexico prope Monterey : n. 224.
30. **Phæographis dendritica** Müll. Arg. L. B., n. 458; *Graphis dendritica* Ach. Univ., p. 271; corticola, in Mexico ad Monterey : n. 137 (sporæ quidem non visæ, sed habitus et structura lirellarum perbene quadrant).
31. **Gyrostomum scyphuliferum** Nyl. in Prodr. Nov. Granat., p. 51; corticola, in Bolivia : n. 1440 pr. p.
32. **Arthonia subrubella** Nyl. in Prodr. Nov. Granat., p. 98; corticola, in Mexico prope Monterey : n. 188.
33. **Medusulina nitida**; *Graphina nitida* (Eschw.) Müll. Arg. Rev. Lich. Eschw. II, n. 5; *Graphis egena* Nyl. L. Exot. Boliv., p. 228; corticola, in Mexici prov. Jalisco : n. 225.

34. **Medusulina texana** Müll. Arg.; thallus argillaceo-v. subtestaceo-pallidus, cartilagineus, lævigatus; lirellæ copiosæ, erumpentes et thallo ambiente mox tumefacto et soredioso-efflorescente in greges varie oblongatos minute impresso-microcarpicos pulveraceos confluentes; perithecium in sectione album, parum evolutum; epithecium fulvescens; lamina aquoso-hyalina; sporæ in ascis solitariae, 120-150  $\mu$  longæ, 50-60  $\mu$  latæ, locelli in series transversales circ. 18 dispositi, in quaque serie (axili) circ. 6-7. — Nulli nisi *Graphina nitida* (Eschw.) Müll. Arg. arcte affinis et similis, sed robustior, sporæ solitariae et pluries majores. — Corticola, ad Brownville, Texas, n. 56 A.
- Obs. Ad hoc genus **Medusulinam**, quod a *Sarcographa* Fée recedit sporis hyalinis, insuper referendæ sunt: *M. egenella*, s. *Graphina egenella* Müll. Arg. L. Bellend., n. 49; *M. albosporella*, s. *Graphis albosporella* Nyl. in Flora 1869, p. 124; *M. sphaerosporella*, s. *Graphis sphaerosporella* Nyl. in Flora 1869, p. 124.
35. **Mycoporum pycnocarpum** Nyl. in Flora 1858, p. 381; corticola, in Mexico, prope Monterey: n. 92.
36. **Endopyrenium Tuckermanni** Müll. Arg. Pyrenoc. Cubens., p. 377; ad cortices muscosos prope Monterey, Mexico: n. 85.
37. **Porina africana** Müll. Arg. Lich. Afr. occid., n. 47; corticola, in Mexico prope Monterey: n. 157.
38. **Microthelia modesta** Müll. Arg.; thallus obscure olivaceo-cinereus, maculiformi-tenuis, lævis, fere indistinctus; apothecia tota circ.  $\frac{35}{100}$  mm. lata, nigra, pyramidali-convexa, basi ob perithecium extrorsum anguloso-productum anguste nigro-cincta, apice minute umbilicata, nuda et nitidula; perithecium dimidiatum; sporæ 8-næ, circ. 17  $\mu$  longæ et 7  $\mu$  latæ, cuneato-obovoideæ, 2-loculares, locus inferior angustior et sæpius paullo brevior. — Apothecia ob thallum obscurum primo intuitu minus quam in affinibus perspicua, depressula et hinc inde fere ut in *M. thelena* (Ach.) Müll. Arg. nigro-cincta. Juxta *M. intercedentem* Müll. Arg. locanda est. — Corticola, in Mexici prov. Jalisco: Dr Eckfeldt, n. 182.
39. **Pyrenula nitidella** Müll. Arg. Pyrenoc. Cubens., p. 414; corticola, in Mexico prope Monterey: n. 175.
40. **Pyrenula pinguis** Fée Ess., p. 75; Müll. Arg. Pyrenoc. Féean., p. 33; corticola, in Mexico ad Monterey: n. 176, 208.

