

Die beigegebenen Figuren hat Herr Dr. P. Roeseler bei mir nach der Natur gezeichnet.

Erklärung der Abbildungen.

- Fig. 1. Blatt von *Cytisus Laburnum*, befallen von *Peronospora Cytisi*. P. Magn. — nat. Gr.
Fig. 2. Conidienträger von *Peronospora Cytisi*. Vergr. 130.
Fig. 3. Oberer Theil eines solchen. Vergr. 390.
Fig. 4—6. Einzelne abgefallene Conidien. Vergr. 390.
Fig. 7. Intercellularer Mycel im Innern des Blattgewebes von *Cytisus Laburnum* L. mit den Haustorien. Vergr. 390.
Fig. 8 u. 9. Intercelluläre Mycelfäden zwischen zwei Zellwänden mit einzelnen Haustorien, die die eine Zellwand durchbrochen haben. Vergr. 730.
Fig. 10—12. Oosporen in den Oogonien aus dem Innern des Blattgewebes von *Cytisus Laburnum*. Vergr. 390.

Lichenes Persici

a cl. Dr. Stapf in Persia lecti, quos enumerat

Dr. J. Müller.

Trib. 1. **Omphalarieae** Mass. Neag. p. 7.

1. *Omphalaria pulvinata* Nyl. Prodr. p. 19 β Schleicheri Hepp Fl. Eur. n. 659; ad fontem prope Buschir (sterilis), saxicola ut omnes sequentes ubi aliter non statutum est.

2. *Omphalaria coralloides* Nyl. Syn. p. 101; *Peccania coralloides* Mass. Esam. p. 54; ad saxa nummulithica subverticalia prope Schiras.

3. *Omphalaria arabica* Müll. Arg. L. B. n. 1607; ad terram circa fontem exhaustum prope Buschir (ster.).

Trib. 2. **Parmelieae** Müll. Arg. Lich. Paraguay. p. 3.

4. *Physcia obscura* Nyl. Prodr. p. 63; ad truncos vetustos Juniperi excelsae in monte Kuh Bungi, cum *Lecanora Hageni* Ach.

5. *Physcia caesia* (Hoffm.) Nyl. Prodr. p. 62; calcicola, prope Kasrun (ster.).

6. *Candelaria subsimilis* (Th. M. Fr.) Müll. Arg. Lich. Afr. trop. n. 49; calcicola, Kuh Bungi.

Trib. 3. **Pannarieae** Körb. Syst. p. 105.

7. *Heppia turgida* Nyl. in Flora 1865 p. 605, Lich. Pyren. or. p. 56; *Endocarpon turgidum* Ach. Univ. p. 305;

supra scopulos arenaceos tenui terra tectos prope Khonar Takhte.

8. *Heppia hepaticella* Müll. Arg.; squamae $\frac{1}{3}$ —1 mm latae, brunneo-nigricantes, orbiculares et subintegrae, planiusculae, laxae adnatae, subtus rhizinis hyalinis valde tenellis praeditae, intus pallidiores; apothecia $\frac{1}{3}$ mm lata, vulgo in centro squamae solitaria, lecanorina, leviter e thalli superficie emergentia; margo integer; discus planus brunneo-fuscus; sporae in ascis oblongo-obovoideis circ. 200—300, 3—5 $\frac{1}{2}$ μ longae, globoso-ellipsoideae. — Prima fronte formam exiguae *Endopyrenii hepatici* refert, sed apothecia sunt gymnocarpica et gonidia coerulescenti-glauculae sunt leviter composita. Ab affini *H. myriospora* recedit squamis subplanis, minus nigricantibus et ascis minus polysporis, et *H. obscuratula* Nyl. differt sporis. — Callicola in monte Kuh Bungi.

9. *Heppia myriospora* Müll. Arg.; thalli squamae nigrae, madefactae obscure olivaceae, intus pallidiores, $\frac{1}{2}$ —1 $\frac{1}{2}$ mm latae, convexae, ambitu orbiculares et integrae aut obtuse et leviter repando 2—5-lobulatae, subtus minute pallido-rhizinosae; hypharum cellulae subventricosae; gonimia olivacea; apothecium in squama centrale, leviter emergens, margine thallino nano cinctum; discus obscure fuscus et planus; epithecium fulvum; asci valde polyspori; sporae omnino maturae haud visae (fusiformi-ovoideae ut videtur). Apothecia similia iis sectionis *Acarosporae Placodii*. — Callicola in monte fontium prope Daleki.

Obs. Ad hoc genus etiam pertinet *Heppia exigua* sc. *Anema exiguum* Müll. Arg. Diagn. Lich. Socotr. p. 1 (ascis 8-sporis, thallo bene madefacto olivaceo, intus pallidiore), quae habitu bene ad *H. myriosporam* accedit.

10. *Heppia lobulata* Müll. Arg.; squamae laxae adnatae, depresso-hemisphaericae, ambitu primum integrae, mox autem 3—6-lobatae, lobuli dein convexiores, quasi in glomerulum botryocephaloideum exiguum $\frac{1}{2}$ —1 mm latum conglobati, nonnihil caesio-nigri, subtus tenuissime parce rhizinosi; hyphae circa gonimia arctius ramosae. Apothecia et sporae non visae. — Juxta *Heppiam quinquetubera* s. *Lecideam quinquetubera* Del. locanda est, et ab hac statu sterili differt thallo obscuriore et multo magis lobuligero nec non halone quodam subcaesio v. caesio-coerulescente. Structura interior bene convenit, at primo intuitu *Omphalariae* speciem simulat, sed thallus intus paullo pallidior, haud mucilaginosus. — Ad saxa calcarea nummulithica prope Schiras.

Trib. 4. **Placodieae** Müll. Arg. Lich. Genève p. 37.

11. *Amphiloma elegans* Körb. Syst. p. 110, in summo Kuh Tatschar.

12. *Amphiloma murorum* Körb. Syst. p. 111, var. *gyalolechioides* Müll. Arg. in Flora 1867 p. 434; calcicola in Kuh Zutah prope Ispahan.

— — v. *aurantiacum*; *Lecanora murorum* v. *aurantiaca* Schaer. Enum. p. 63; calcicola, prope Schiras, in Kuh Zufa prope Ispahan, in Kuh Bul alt. 10500 ped., in Kuh Bungi alt. 9500 ped., et in cacumine montis Kuh Bamu alt. 9300 ped. (thallo magis depauperato).

— — v. *miniaturum* Körb. Syst. p. 111; in cacumine montis Kuh Tscharmekam prope Schiras, alt. 10000 ped.

— — v. *obliteratum* Körb. l. c., calcicola in Kuh Bamu alt. 9300 ped.

13. *Amphiloma aurantium* Müll. Arg.; *Lichen aurantius* Pers. in Usteri Neue Annal. d. Botan. V. p. 14 n. 11 (1794), ubi descriptio optima; *Lecanora Callopisma* Ach. Univ. p. 437, Syn. p. 184; *Amphiloma Callopisma* Körb. Syst. p. 112; *Caloplaca Callopisma* Th. M. Fr. Scand. p. 169; ad muros terreos castelli antiqui Richar et ad lapides in deserticis prope Busehir.

Obs. Hinc inde ludit thallo undique v. fere undique aurantiaco (*Lecanora Callopisma* b *aurantiaca* Schaer. Enum. p. 63) quae transit et a planta in regione mediterranea et orientali sat vulgari haud separanda est.

14. *Placodium fulgens* v. *bracteatum* Müll. Arg.; *Lecanora fulgens* β *bracteata* Ach. Univ. p. 438, Syn. p. 183 Th. M. Fries Scand. p. 223; *Gyalolechia bracteata* Körb. Par. p. 51. Hujus sporas video simplices et speciem dein iterum ad genus *Placodium* refero. — Ad terram nudam prope Bushir et in montanis prope Daleki.

15. *Placodium rubinum*; *Lecanora rubina* (Lam) Ach. Univ. p. 412; sequenti intermixtum in Kuh Totschal.

16. *Placodium chrysroleucum* v. *opacum* Körb. Par. p. 55; *Lecanora chrysroleuca* v. *opaca* Ach. Univ. p. 411; in monte Kuh Totschal.

17. *Placodium saxicola* Mass. Ric. p. 23; in Kuh Totschal.

— — v. *versicolor* Körb. Syst. p. 115; in calcareis montis Kuh Bul prope Daescht-aerdschin.

18. *Placodium disperso-areolatum* Körb. Syst. p. 117; in Kuh Bul, alt. circ. 12000 ped.

19. *Placodium persicum* Müll. Arg.; thallus ut in *Pl. disperso-areolato* Körb. albidulus v. hinc inde in roseum vergens, ambitu brevissime radiatim lobatus et crassiusculus; apothecia in areolis centro umbonatis solitaria, 1 mm lata; margo integer, fulvescenti-fuscus; discus nigro-fuscus, nudus; epithecium olivaceum, lamina caeterum hyalina et mollis; paraphyses crassae, superne articulatae; sporae 8-nae, ellipsoideae, 12—20 μ longae et 7—9 μ latae. — A specie comparata statim recedit disco apotheciorum et dein magnitudine sporarum. — Ad saxa durissima montis Kuh Totschal.

20. *Placodium radiosum* Mass. Ric. p. 22; *Lichen radiosus* Hoffm. Enum. p. 62. t. 4. Fig. 5 (1784); *Lichen circinatus* Pers. (1794); ad saxa arenacea prope Khonar Takhte.

21. *Placodium crassum* (Ach.) Müll. Arg. Lich. Genève p. 38, var *melaloma*; *Lecanora crassa* v. *melaloma* Ach. Univ. p. 414; ad saxa plerumque calcarea prope Schiras, ad Kasrun et in monte Kuh Totschal.

— — v. *deserti* Müll. Arg. Lich. aegypt. Suppl. II. n. 10; ad terram sabulosam prope Buschir, parce fertilis.

22. *Placodium* (sect. *Acarospora*) *Stapfianum* Müll. Arg.; thallus virescenti-flavus, squamulosus; squamulae confertae, subcontiguae, obtuse angulosae et undulato-inaequales, hinc inde imbricatae, margine obtusae, periphericae modice radiantes, crenatae et integrae, omnes crassae, supra laevigatae, undique adnatae, crustam circ. 2—3 mm crassam formantes; apothecia 1½—2 mm lata, innata, urceolari-concava, margine ipso squamarum tumente et incurvo crasso obtuse angulato v. undulato thallino-marginata, et hinc inde margine zeorino tenui fusco praedita; discus virenti-niger v. fusco-niger, nudus, opacus; epithecium nigro-fuscum, reliqua omnia intus hyalina; asci elongato-obovoidei, ereberrime polyspori; sporae tantum 2—3 μ longae, globosae et globoso-ellipsoideae. — Habitu ad *Pl. citrinum* (Tayl.) bene accedit, sed totus Lichen omnibus partibus validior et discus aliter coloratus est. Pulchra species sed parce tantum lecta, egregio detectori grato animo dicata. — Ad saxa calcarea montis Kuh Zufa prope Ispahan.

23. *Placodium* (s. *Acarospora*) *cervinum* Müll. Arg.; *Lecanora cervina* Ach. Syn. p. 124. pr. p.; *Acarospora cervina* Körb. Syst. p. 154; ad saxa calcarea in monte Kuh Totschal et in Kuh Bamu (haec ulterior sterilis).

— — v. *percaenum*; *Lecanora cervina* v. *percaena* Schaer. Enum. p. 56; *Acarospora glaucocarpa* v. *percaena* Körb. Par. p. 58; *Lecanora percaenoides* Nyl. in Stitzenb. Lich. Helvet. n. 601; in calcareis montis Kuh Bamu, in Kuh Totschal, in deserticis Zaergun et prope Schiras et Daleki.

— — v. *larvatum* Müll. Arg.; thalli squamae undique dense caesio-cinerae, in crustam dense confertae, planae, centro vulgo concaviusculae, saepe rimulosae et subpruinosa; apothecia demum magis irregularia. — Prima fronte ob thallum omnino caesio-cinereum speciem bene distinctam simulat, at squamulae ultimae hinc inde fuscae, sc. levius caesio-incusae s. minus caesio-larvatae sunt et transitum in var. *percaenam* clare ostendunt. Habitu quodammodo ad *Pl. interruptum* (Nyl.) Müll. Arg. accedit, et thallus saepe demum fere adeo albidus evadit ac in *Pl. dealbato* (*Lecanora Schleicheri* v. *dealbata* Nyl. Prodr. p. 81, quae apotheciis immersis specificè separanda). — Frequens ut videtur ad saxa calcarea prope Schiras, prope Zaergun, supra ruinam Amorelt prope Ispahan, prope Buschir.

— — v. *ochraceum* Müll. Arg.; squamae ochraceo-rubentes; apothecia leviter caesio-pruinosa. — Asci et sporae haud normaliter evolutae. — Ad saxa dura in montibus Kuh Tatschal.

24. *Placodium* (s. *Acarospora*) *interruptum* Müll. Arg. Lich. aegypt. n. 15; *Lecanora interrupta* Nyl. Lich. Ehrenb. p. 63. — A *Pl. cervino* v. *percaeno* statim differt squamis alte convexis et demum laxè areolato-insculptis, apotheciis subnigris, epithecio brunneo et dein sporis fere globosis. — Calcicola, copiose in monte Kuh Bamu alt. 9300 ped.

— — v. *nudum* Müll. Arg.; squamae fuscae, non e cinereo caesio-incusae. — Calcicola, in monte fontium prope Daleki (sterile), et in cacumine montis Kuh Tscharmekam (saltem hic pertinere videtur, sed juvenile).

25. *Placodium* (s. *Acarospora*) *microphthalmum* Müll. Arg.; thalli squamae periphericae radiantes, oblongatae, reliquae areolatim confertae, contiguae, polygonatae, omnes turgidae, laeves, brunneo-fuscae et opacae; apothecia in squamis centralibus sita, in quaque squama pauca, impresso-punctiformia, nigra; paraphyses tenellae; asci valde polyspori; sporae (omnino evolutae non visae). — Habitu ad „*Acarosporam bullatam*“ Anzi Exs. n. 532 bene accedit, sed quamae thallum formant orbicularem bene placodiale, magis

regulariter sitae, periphericae longius radiantes et apothecia omnino alia, non emergentia. Radii dein validiores et latiores sunt quam in *Placodio molybdino*, sc. *Acarospora molybdina* Auct. et apothecia sunt alia. Species insignis est. — Ad saxa calcarea montis Kuh Zufah prope Ispahan.

26. *Glypholecia scabra* Müll. Arg.; *Urceolaria scabra* Pers. in Act. Wett. II. p. 10; *Acarospora scabra* Th. M. Fries Scand. p. 208; *Laureriella grumulosa* Hepp Fl. Europ. n. 772; saxicola prope vicum Serviend, et ad terram sabuloso-argillaceam secus riv. Tang Asari prope Eklid.

Trib. 5. **Psoreae** Müll. Arg. Lich. Paragnay. p. 8.

27. *Psora decipiens* Hoffm. Lich. t. 43. f. 1—3; Mass. Ric. p. 91; saxicola ad Daleki et ad terram sabulosam sterilissimam prope Buschir.

28. *Thalloidima coeruleo-nigricans* (Light. 1777) Poetsch. Aufzähl. p. 212; ad terram prope Daleki, et ad seopulos arenaceos prope Khonar Takhte.

Trib. 6. **Lecanoreae** Müll. Arg. Lich. Socotr. p. 359.

29. *Callopusma aurantiacum* Mass. Syn. L. Blasten. p. 9; calcicola in monte Kuh Bungi.

— — v. *erythrellum* (Nyl.) Müll. Arg. Lich. aegypt. n. 22; calcicola circa Buschir.

30. *Callopusma pyraceum* v. *lactenum* (Mass.) Müll. Arg. Lich. aegypt. Suppl. I. n. 22; in deserto inter Abibarik et Zaergun.

31. *Callopusma variabile* Körb. Syst. p. 131; calcicola in monte Kuh Zufa, et in collibus nummuliticis prope Schiras.

32. *Callopusma bullatum* Müll. Arg.; thallus plumbeo-cinereus v. cinereo-albescens, crassus, e rimoso diffracto-areolatus v. areolato-glebosus, areolae demum bullato-convexae et obtuse angulosae; apothecia $\frac{1}{2}$ —1 mm lata, emergentia, margine thallino crasso integro et interdum plicato cincta; discus fusco-niger, obsolete cinereo pruinosis, mox nudato-niger, a margine vix superatus; hypothecium olivaceum, lamina caeterum hyalina; sporae 8-nae, ellipsoideae, 12—15 μ longae, 8—9 μ latae. — Prope *C. variabile* Körb. locandum est. Thallus ad illum *Thalloidimatis coeruleo-nigricantis* (Lightf.) accedit. — Quartzi- et calcicola, in Kuh. Tscharmekam alt. 10000 ped., et in Kuh. Bamu supra 9000 ped. (hoc substerile).

33. *Lecania brachyspora* Müll. Arg. L. aegypt. n. 39; calcicola in declivitate montis Kuh Bungi (parcissime aliis intermixta).

34. *Lecanora caesio-alba* Körb. Parerg. p. 82; calcicola in monte Kuh Zufa.

35. *Lecanora Flotowiana* Körb. Syst. p. 146; calcicola in Kuh Bul.

36. *Lecanora agardhianoides* Mass. Ric. p. 11; ad fauces montium Kuh Bil, prope Daescht-aerdschin (parcissime).

37. *Lecanora Hageni* Ach. Univ. p. 367; Körb. Par. p. 80; ad truncos vetustos *Juniperi excelsae*.

38. *Lecanora cinerea* v. *alba*; *Urceolaria cinerea* v. *alba* Schaer. Enum. p. 86; ad saxa dura montis Kuh Totschal.

39. *Lecanora Hoffmanni* Müll. Arg. L. Argentin. n. 31; *L. calcarca* f. *Hoffmanni* Nyl. Scand. p. 154; calcicola, in monte Kuh Bul.

40. *Rinodina controversa* Mass. Ric. p. 16; calcicola, in Kuh Zufa prope Schiras.

41. *Rinodina Bischoffii* v. *aegyptiaca* Müll. Arg. Lich. aegypt. n. 42; calcicola in Kuh Bil et in Kuh Bungi.

42. *Diploschistes scruposus* Norm. v. *cretaceus*; *Urceolaria scruposa* v. *cretacea* Schaer. Spicil. p. 76; in gypsaceis Daleki, ad terram et saxa arenosa prope Buschir, ad Khane Raedar, et dein ad saxa nummulithica prope Rischar et prope Schiras.

Trib. 7. **Lecideae** Müll. Arg. Enum. L. Genève p. 50.

43. *Lecidea* (s. *Lecidella*) *atrobrunnea* β *grandiusecula* Schaer. Enum. p. 109; ad saxa dura montis Kuh Totschal.

44. *Lecidea* (s. *Lecidella*) *spilota* El. Fr. Syst. Orb. veg. p. 286; *Biatora spilota* Hepp Fl. Europ. n. 723; ad saxa dura montis Kuh Totschal.

45. *Lecidea* (s. *Sarcogyne*) *simplex* Nyl. Prodr. L. Gall. p. 146; calcicola, in monte Kuh Bungi.

46. *Lecidea* (s. *Sarcogyne*) *Polackiana* Müll. Arg.; thallus ochraceo-argillaceus, minute rimoso - v. demum diffracto-areolatus, areolae margine obsolete

undulato-inaequales, sat tenues; apothecia $\frac{1}{4}$ — $\frac{1}{2}$ mm lata, adpressa, nigra, margine integro subtremuloso aut undulato semper prominente cincta; discus planus v. demum plicatulus, niger et nudus; epithecium fulvo-fuscum, lamina caeterum hyalina; sporae in ascis eximie numerosae, globoso-ellipsoideae, $3\frac{1}{2}$ —5 μ longae, 3— $3\frac{1}{2}$ μ latae. — Species elegantula clarissimo directori Itineris persici dicata, a *L. simplice* Nyl. thallo statim recedens. — Calicicola in monte Kuh Zufa prope Ispaham, ubi cl. Dr. Stapf 26. Sept. 1885 eam legit.

47. *Diplotomma albo-atrum* v. *intermedium* Müll. Arg. Lich. aegypt. n. 50; calicicola prope Buschir.

48. *Diplotomma venustum* Körb. Par. p. 179; calicicola prope Buschir.

49. *Rhizocarpon disporum* (Naeg.) Müll. Arg. Lich. Nov. Granat. p. 51; *Lecidea dispora* Naeg. in Hepp (1853); *Rhizocarpon geminatum* Th. M. Fr. Scand. p. 623; ad saxa dura montis Kuh Totschal.

50. *Rhizocarpon geographicum* v. *alpicola* Mass. Ric. p. 101; ad saxa dura in Kuh. Totschal.

Trib. 8. **Dermatocarpeae** Müll. Arg. Pyrenocarp. Cubens. p. 377.

51. *Dermatocarpon miniatum* v. *complicatum* Th. M. Fries Lich. Arct. p. 253; sine loci certi indicatione.

Trib. 9. **Endopyrenieae** (Schwend. pr. p.) Müll. Arg. Pyrenoc. Cubens. p. 377.

52. *Endopyrenium rufescens* Körb. Syst. p. 323; ad terram in deserticis prope Daescht-aerdschen.

53. *Endopyrenium hepaticum* Körb. Par. p. 302; ad terram prope Schiras.

— — f. *nigrata* Müll. Arg. Lich. Palaestin. n. 21; ad terram in Kuh Zufa, ad Buschir, prope Schiras, et in gypsaceis prope Daleki.

54. *Endopyrenium monstrosum* Körb. Par. p. 304; calicicola prope Khonar.

55. *Endopyrenium crassum* Müll. Arg. L. B. n. 674; *Endocarpon crassum* Anzi Symb. n. 91, exs. n. 487; ad saxa dura in montibus Kuh Totschal (fertile, robustius quam *E. crassulum* Müll. Arg. et sporae longe majores), supra vicum Zaergun, in monte Kuh Bungi et in collibus saxosis deserticis prope Schiras.

56. *Endopyrenium verruculosum* Müll. Arg.; squamae confertae et sparsae, rugulosae, crassiusculae, planae, fusco-cinereae, supra verruculis crebre subconcentricis scabratae, intus albae, majores vix 1 mm latae; apothecia demum leviter emergentia et pro squamis majuscula, apice nigra, convexa, in thallo pallida; sporae in ascis 8-rae, oblongo-ellipsoideae, 17—24 μ longae, 8—9 μ latae. — Habitu ad *Verrucariam crustulosam* Nyl. (in Lamy Cat. p. 157) bene accedit, sed squamae distinctae (nec thallus ambitu evanescente continuus) adsunt et superficies peculiariter, fere ut in *Thulloidimate Toniniano* Mass., sed subtilius verruculosa est. — Calicicola, in monte Kuh Zufa prope Schiras, cum *Rinodina controversa* Mass. mixta.

Trib. 10. **Staurothelieae** Müll. Arg.; thallus placodialiter evolutus, gonidia globosa, apothecia pyrenocarpica.

57. *Staurothele elopima* Th. M. Fries Arct. p. 263; in monte Kuh Zufa, calicicola.

Trib. 11. **Verrucarieae** Müll. Arg. Pyrenoc. Cubens. p. 398.

58. *Verrucaria macrostoma* Duf. ap. DC. Fl. Fr. 2. p. 319, f. nigrata Müll. Arg.; thalli areolae validiores, e brunneo-cervino nigratae, margine demum undulato-inaequales. — Calicicola prope Zaergun (parce lecta, haud bene servata, apothecia et sporae tamen conveniunt).

59. *Verrucaria nigrescens* Pers. in Usteri Annal. Bot. 14. p. 36; ad saxa camporum prope Buschir (sterilis).

Ueber zwei auf Leguminosen vorkommende Uredineen.

Von P. Dietel.

(Mit Tafel IX.)

1. *Phragmidium deglubens* (Berk. et Curt.) De-Toni.

Vor einiger Zeit erhielt ich mit einem Hinweis auf ihren interessanten Membranbau von Herrn Prof. v. Lagerheim eine Uredinee aus Ecuador, die allem Anscheine nach und nach der Ansicht des Einsenders mit *Phragmidium deglubens* (Berk. et Curt.) De-Toni identisch ist. Bei der sehr unvollkommenen Kenntniss dieses Pilzes und im Hinblick auf die Frage, ob ein *Phragmidium* auch auf einer nicht zu den Rosaceen gehörigen Nährpflanze vorkomme, dürften einige genauere Angaben über denselben am Platze sein.

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