

montem Feldberg (Sickenberger). Species adhuc cum *B. lacto B. E. commutata*, costa, cellulis laxioribus et pedicello asperimo satis diversa.

J. Milde.

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## Repertorium.

P. A. Karsten, *Monographia Pezizarum fennicarum*. (Notiser ur Sällskapetets pro Fauna et Flora fennica förhandl X. 1869.)

Nach dem Verfasser zerfällt die Gattung *Peziza* Dill. in folgende 25 Untergattungen:

1. *Aleuria* Fr. pr. p. *Peziza* De N. — Apothecia sessilia vel stipitata, cupula concava, plana vel convexiuscula, cellulis vesicularibus parenchymaticis contexta, carnosae vel subceraceae; sporae ellipsoideae vel sphaeroideae, simplices vel guttulis 1—3 praeditae, majusculae; thecae cylindratae, raro clavatae; paraphyses filiformes, interdum nullae. — Terrestres, rarius ligni-, fimi- vel corticolae, majores vel mediocres, rarius minores. — Species 1—57.

2. *Peltidium* Kalchbr. — Apothecia sessilia, cupula convexiuscula, cellulis vesicularibus amplis contexta, gelatinoso-ceracea; sporae ellipsoideae, guttulis 2 foetae vel spurie tenuiter uniseptatae, majusculae; thecae creberrimae, elongato-cylindratae; paraphyses filiformes. — Saxi- vel lignicola. — Species 58.

3. *Pulparia* Karst. — Apothecia oblongato-dilatata et substipitata, cupula concaviuscula, vel planiuscula, gelatinoso-ceracea; sporae sphaeroideae, majusculae; thecae copiosae, cylindratae; paraphyses filiformes. — Lignicola. — Species 59.

4. *Encoelia* Fr. — Apothecia sessilia, plus minus coriacea; sporae cylindrato-oblongatae vel subcylindratae, curvulae, simplices vel guttulis praeditae; thecae (cylindrato-clavatae) et paraphyses confertae. — Corticolae, erumpentes, caespitosae, mediocres. — Species 60—62.

5. *Phialea* Fr. S. M. pr. p. — Apothecia stipitata vel substipitata, glabra, cupula ad formam varia, excipulo fibroso, ceraceo; sporae fusoidae vel elongatae vel oblongatae vel subellipsoideae, rectae vel curvulae, simplices vel guttulis praeditae vel spurie septatae; thecae cylindratae vel cylindrato-clavatae; paraphyses filiformes, graciles. (Thecae apice summo vel obturaculo iodo coerulescentes aut non tinctae.) — Epiphytae, mediocres vel minores, raro majores. — Species 63—104.

6. *Allophylaria* Karst. — Apothecia fere sessilia vel brevissime obconice stipitata, glabra, cupula planiuscula, excipulo fibroso, ceraceo; sporae oblongato- vel ellipsoideo-fusoideae, majusculae, guttulis majusculis praeditae vel spurie septatae; thecae oblongato-clavatae. (Obturaculum thecarum apicale iodo violaceo-fuscescens.) — Minores, caulicolae. — Species 105 et 106.

7. *Georgoniceps* Karst. — Apothecia substipitata, subnuda, cupula plana, excipulo ceraceo; sporae longissimae, filiformes, pluriseptatae (vel guttulis foetae); thecae clavatae, obturacula iodo coerulescente, paraphyses nullae. — Minima, corticola. — Species 107.

8. *Mollisia* Fr. S. M. pr. p. — Apothecia stipitata vel sessilia, glabra, cupula convexiuscula vel planiuscula, raro (ut plurimum siccitate) concava, excipulo gelatinoso vel subgelatinoso carnosio aut ceraceo-molli; sporae oblongatae, ellipsoideae, fusoideo-oblongatae vel fusoideo-elongatae, plerumque guttulis paucis minutis praeditae; thecae cylindracco-clavatae; paraphyses graciles. (Obturaculum thecarum apicale iodo coerulescens aut non tinctum.) — Locis udis umbrosis epiphytae vel terrestres, mediocres vel minores. — Species 108—123.

9. *Aleuriella* Karst. — Apothecia breviter stipitata, glabra, cupula planiuscula, ceraceo-molli, excipulo cellulis parenchymaticis contexto; sporae subellipsoideae, guttula unica magna praeditae; thecae cylindraccoe, longiusculae; paraphyses filiformes. — Corticola, minor. — Species 124.

10. *Apostemium* Karst. — Apothecia sessilia, e cellulis excipuli superficialibus parenchymaticis fuscescentibus excedentibus granulato-rugulosa, ceraceo-mollia, primo obconico-oblongata, demum explanata; sporae non visae; thecae cylindraccoe, basi subfiliformes, longiusculae; paraphyses filiformes, gracillimae, apice incrassatae. — Ramulicola, minor. — Species 125.

11. *Nodularia* Karst. — Apothecia sessilia, furfuracea, planiuscula, ceraceo-mollia, excipulo cellulis parenchymaticis contexto; sporae fusoideo-cylindraccoe, simplices aut spurie tenuiter 1- (2-) septatae; thecae cylindraccoe vel anguste clavatae; paraphyses nullae propriae. — Ramulicola, minor. — Species 126.

12. *Clibanites* Karst. — Apothecia sessilia, glabra, irregularia et difformia, ceracea; sporae filiformes, guttulis pluribus foetae vel spurie tenuiter septatae; thecae fusoideo-elongatae, tenuissimae, statim evanescentes; paraphyses parum notabiles. — Lignicola, minor. — Species 127.

13. *Agyriopsis* Karst. — Apothecia sessilia, glabra, rotundata, convexiuscula, subimmarginata, mollia; sporae elongatae, septatae; thecae anguste clavatae; paraphyses graciles. — Lignicola, minor. — Species 128.

14. *Trochila* Fr. et DeN. pr. p. — Apothecia sessilia, glabra, urceolata, deinde explanata, ceraceo-mollia, excipulo cellulis parenchymaticis fuscis vel fuscescentibus contexto; sporae ad formam variae, vulgo guttulis praeditae; thecae cylindraceo-clavatae aut fusoido-elongatae; paraphyses gracilescentes vel graciles vel parum notabiles. — Minores, ligni- vel caulicolae, vulgo cinereae vel (siccitate) nigricantes. — Species 129—141.

15. *Ceracella* Karst. — Apothecia sessilia, glabra, concava, ceraceo-mollia, excipulo e filamentis conglutinatis, composito; sporae oblongatae aut aciculares, vulgo guttulis praeditae; thecae cylindraceo-vel fusoido-clavatae; paraphyses graciles vel parum notabiles. — Corti- aut caulicolae, minores, umbrinae vel albidae. — Species 142—145.

16. *Niptera* Fr. et DeN. pr. p. — Apothecia sessilia, glabra, applanata, excipulo submembranaceo, cellulis arctis composito, hymenio in statu humido turgido, convexo, molli; sporae oblongatae, elongatae vel filiformes, guttulis majusculis foetae aut spurie tenuiter uni- — pluriseptatae; thecae fusoido-clavatae; paraphyses graciles vel gracilescentes, plerumque apice clavatae. — Calami- vel culmicolae, minores. — Species 146—150.

17. *Coronellaria* Karst. — Apothecia sessilia, vulgo obconica, ceracea, arida, demum flocculosa- vel furfuraceo-fatiscentia, margine laciniatulo vel ciliato, excipulo cellulis parenchymaticis contexto; sporae oblongatae (aciculari- vel fusoido-), guttulis majusculis (1—4) foetae vel spurie septatae; thecae ellipsoideo-oblongatae vel oblongato-clavatae; paraphyses filiformes crassiusculae. — Calami- vel foliicolae, minores, thecae apice ultimo iodo obsoletissime violaceo-fuscescentes. — Species 151—153.

18. *Patellaria* Fr. pr. p. DeN. — Apothecia patellaria, sessilia, subinde innata, glabra, coriacea, excipulo e cellulis elongatis arctis vulgo fuscis contexto; sporae oblongatae, guttulis majusculis praeditae vel septatae; thecae vulgo clavatae; paraphyses graciles plerumque apice infuscato coalescentes. — Lignicolae, minores. — Species 154—163.

19. *Grumenula* DeN. Disc. p. 9 (saltem pr. p.) *Fibrina* Fr. S. M. II, p. 111. *Heterosphaeria* et *Cenangii* spec. Fr. S. V. Sc. p. 364 et 365. — Apothecia sessilia vel substipitata, glabra aut juniora furfuracea vel furfuraceo-subhirta, globulosa, ore rotundato integro lacerove

dehiscentia, in sicco coarctata, excipulo coriaceo, flaccido, e cellulis elongatis arctis vulgo fuscis contexto; sporae longiusculae cylindratae vel fusoidae, simplices vel tenuiter septatae; thecae cylindratae vel clavatae; paraphyses filiformes, confertae. — Minores, firmulae. — Species 164—170.

20. *Orbilia* Fr. S. V. Sc. p. 357. — Apothecia sessilia, glabra, planiuscula, ceracea vel subgelatinosa excipulo cellulis parenchymaticis majusculis contexto; sporae minutae, subsphaeroideae vel oblongatae vel cylindratae, plerumque guttulis praeditae; thecae cylindrato-clavatae vel clavatae, numerosae, minutae; paraphyses apice saepissime clavatae vel subsphaeroideo-clavatae. — Minores, ligni- vel fungicolae, hyalinae vel coloris laeti. — Species 171—179.

21. *Collaria* Fr. S. V. Sc. p. 359. — Apothecia sessilia, glabra, gelatinosa, planiuscula, excipulo e cellulis sat minutis contexto; sporae modicae, oblongatae vel fusoido-oblongatae, guttulis majusculis praeditae vel spurie septatae; thecae clavatae vel cylindrato-clavatae; paraphyses vulgo apice clavatae. — Minores, cauli-vel lignicolae, coloris laeti. — Species 180 et 181.

22. *Tapesia* Pers. Myc. Eur. Fr. S. M. II, pag. 105 (pr. p.). — Apothecia sessilia, subtomentosa, coriacea, concava, subiculo tomentoso insidentia; sporae fusoido-oblongatae vel cylindratae, simplices vel guttulis praeditae vel septatae; thecae cylindrato-clavatae; paraphyses parum notabiles. — Minores, cauli- vel culmicolae. — Species 182 et 183.

23. *Microtrochila* Karst. — Apothecia sessilia, mollia, forma varia, pilosa vel granulata vel furfuracea vel subnuda, tenuia, minima, excipulo e cellulis parenchymaticis incoloribus contexto; sporae saepissime fusoido-oblongatae; thecae clavatae vel cylindratae, vulgo fusoidae; paraphyses gracillimae vel gracilescentes vel parum notabiles. — Ligni-, cauli-, culmivel foliicolae, hyalino-albidae vel albidae. — Species 184—193.

24. *Lachnella* Fr. S. V. Sc. p. 365. — Apothecia stipitata vel sessilia, pilosa vel furfuracea, excipulo ceraceo vel subcoriaceo, fibroso, cellulis elongatis arctis contexto; sporae plerumque oblongato- vel elongato-fusoidae, interdum sphaeroideae vel subellipsoideae vel filiformes, vulgo guttulis praeditae, subinde spurie septatae vel simplices; thecae cylindrato-clavatae, raro clavatae, apice iodo hand vel obsolete tinctae; paraphyses graciles, parum notabiles. — Minores, firmulae, ligni-, corti-vel caulicolae, raro fungicolae. — Species 194—218.

25. *Lachnea* Fr. S. M. II, p. 77 (pr. p.). — Apothecia stipitata aut sessilia, villosa vel pilosa, excipulo ceraceo, fibroso; sporae plerumque elongato- vel filiformi-fusoideae, rarius oblongato-fusoideae, simplices, interdum guttulis praeditae vel spurie septatae; thecae vulgo subclavato-cylindraceae; paraphyses ut plurimum grandiusculae, apice acutae aut saltem attenuatae. — Minores, tenues, cauli-, ligni- vel foliicolae. — Species 219—239.

Unter diesen 239 Arten, welche mit vortrefflichen Diagnosen versehen sind, findet sich eine grosse Zahl neuer Arten, welche wir demnächst mittheilen werden.

L. R.

A. Braun, über eine neue in Neuseeland entdeckte Art der Gattung *Isoëtes* (Monatsbericht der K. Akad. der Wissenschaften zu Berlin, Juli 1869).

Herr J. Kirk, der gegenwärtig mit der botanischen Erforschung Neuseelands beschäftigt ist, hat im Waikato, einem Fluss auf der Nordinsel, eine *Isoëtes*-Art gefunden, welche dem Ansehen nach ganz unter Wasser wächst, schwächeren Formen unserer *J. lacustris* in der Tracht und Farbe sehr ähnlich, bei genauerer Untersuchung aber gänzlich davon verschieden ist.

In den 5 Schlüsseln, welche der Verfasser in der Abhandlung über die australischen *Isoëten* gegeben hat, reiht sich *I. Kirkii* in folgender Weise ein:

I. Nach der An- und Abwesenheit der Spaltöffnungen unter: Stomata adsunt mit dem Beisatz: Vegetatio aquatica, submersa.

II. Nach der Gestalt des Stockes unter: Rhizoma trilobum, Abtheilung: Aquaticae.

III. Nach dem Schleier unter: Velum completum clausum ans Ende mit dem Zusatz: Sporangium velo pallido occultum, cellulis incrassatis nullis.

IV. Nach der Beschaffenheit der Sporen unter: macrospora majores, tuberculis minutis crebris obsitae nach *I. Stuarti* mit dem Beisatz: Diam. 0,50—0,60 Mm.

V. Nach den vegetativen Characteren unter: Statura mediocris nach *I. Stuarti* mit dem Zusatz: Color saturate viridis, vaginarum subfuscus.

Es ist hieraus ersichtlich, dass *I. Kirkii* sich von *I. Mülleri* durch folgende Merkmale unterscheidet: Kräftigerer Wuchs, dickere nach oben weniger fein zugespitzte dunkler grüne Blätter, bräunliche Scheidenränder, bleiches Sporangium ohne dickwandige Zellen, bedeutend grössere

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