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Annotated list of taxonomic novelties published in "Fungi Rhenani Exsiccati" Fasc. 1 to 7, issued by K. W. G. L. Fuckel in 1863

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Abstract: Braun, U. & Bensch, K. 2019: Annotated list of taxonomic novelties published in "Fungi Rhenani Exsiccati" Fasc. 1 to 7, issued by K. W. G. L. Fuckel in 1863. Schlechtendalia **36**: 103–131.

New taxa and new combinations published by K.W.G. L. Fuckel in "Fungi Rhenani Exsiccati" Fasc. 1 to 7 in 1863 are listed and annotated, supplemented by copies of the labels with the original descriptions or new combinations. References, citations and the synonymy are corrected when necessary. The nomenclature of some taxa is discussed in more detail.

Zusammenfassung: Braun, U. & Bensch, K. 2019: Kommentierte Liste taxonomischer Neuheiten publiziert in „Fungi Rhenani Exsiccati" Fasz. 1 bis 7, herausgegeben von K. W. G. L. Fuckel im Jahr 1863. Schlechtendalia **36**: 103–131.

Neue Taxa und Kombinationen publiziert von K. W. G. L. Fuckel in "Fungi Rhenani Exsiccati" Fasc. 1 bis 7 im Jahr 1863 werden aufgelistet und annotiert, ergänzt durch Kopien der Etiketten mit den Originalbeschreibungen oder Kombinationen. Referenzangaben, Zitate und die Synonymie werden korrigiert falls notwendig. Die Nomenklatur einiger Taxa wird detaillierter besprochen.

Key words: Fungi, nomenclature, exsiccata.

Published online 18 Nov. 2019

Introduction

Karl Wilhelm Gottlieb Leopold Fuckel, a well-known German mycologist of the 19th century, was born on 3 Feb. 1821 at Reichelsheim (Wetterau) and died on 8 May 1876 in Vienna on the way back from Italy. Between 1836 and 1952, he worked as pharmacist and later, as owner of a vineyard at Oestrich (Rheingau), he devoted his efforts mainly to mycology. In 1860, he published an enumeration of fungi of the Nassau region (Fuckel 1860). Between 1863 and 1874, Fuckel distributed nos. 1–2700 of his exsiccata "Fungi Rhenani Exsiccati (complete sets of "Fuckel, Fungi Rhenani Exsiccati" are maintained at FH, G and HAL. Scans of labels with taxonomic novelties, used for the present work, have been prepared on the basis of duplicates preserved at HAL (Herbarium, Martin Luther University, Halle (Saale), Germany). According to ICN, Art. 30.2 (Ex. 12), descriptions, new combinations and other taxonomic novelties on labels accompanying distributed specimens (exsiccata) are effectively published, i.e., valid names published on printed labels of distributed exsiccata have to be taken into consideration with regard to priority issues of taxa. However, experiences have shown as far that names published in exsiccata have often been neglected or wrongly cited in nomenclatural databases and taxonomic treatments.

Fig. 1. K. W. G. L. Fuckel, illustration published at the beginning of Fascicle 1 of Fungi Rhennani Exsiccati.

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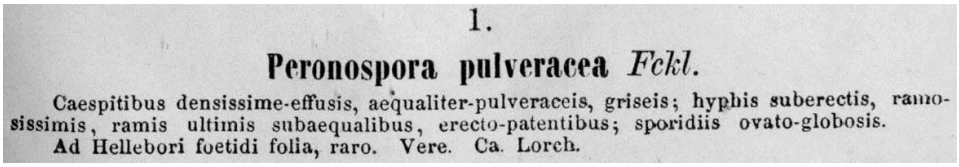
Fuckel (1870) published a monographic treatment of the fungi of Rhineland [also separately published in book form as "Symbolae mycologicae. Beiträge zur Kenntnis der rheinischen Pilze. Julius Niedner, Wiesbaden" and as facsimile edition, J. Cramer, Lehre 1966], with three supplements (Fuckel 1871, 1874, 1875), the first supplement also separately published in book form [Julius Niedner, Wiesbaden 1971–1875; and as facsimile edition, J. Cramer, Lehre 1966], and the second supplement as preprint published before 21 Jun. 1873 (see Stafleu & Cowan 1976). Fuckel's herbarium is deposited in "Museum Wiesbaden, Naturwissenschaftliche Abteilung" (WIES).

Annotated list of taxa

Fasc. 1

Peronospora pulveracea Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 1, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 1 (fig. 2).

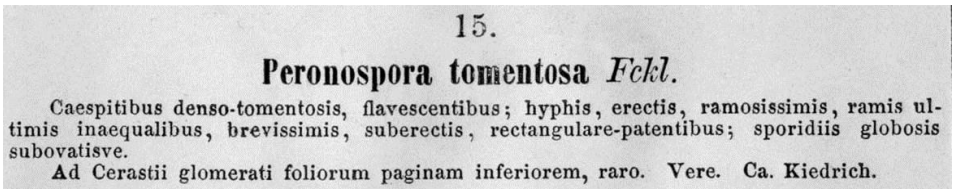

1.

Peronospora pulveracea *Fckl.*

Caespitibus densissime-effusis, aequaliter-pulveraceis, griseis; hyphis suberectis, ramosissimis, ramis ultimis subaequalibus, erecto-patentibus; sporidiis ovato-globosis.
Ad Hellebori foetidi folia, raro. Vere. Ca. Lorch.

Fig. 2

Peronospora tomentosa Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 15, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 15 (fig. 3).

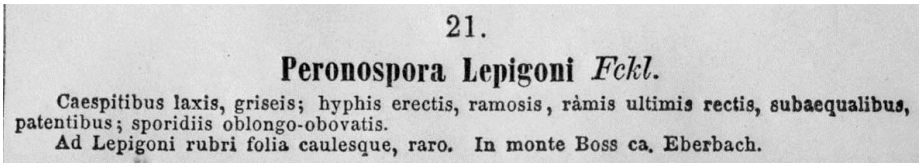

15.

Peronospora tomentosa *Fckl.*

Caespitibus denso-tomentosis, flavescentibus; hyphis, erectis, ramosissimis, ramis ultimis inaequalibus, brevissimis, suberectis, rectangulare-patentibus; sporidiis globosis subovatisve.
Ad Cerastii glomerati foliorum paginam inferiorem, raro. Vere. Ca. Kiedrich.

Fig. 3

Peronospora lepigoni Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 21, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 21 (fig. 4). Constantinescu (1991) listed *P. lepigoni* as a species of its own, although it is sometimes considered a synonym of *Peronospora obovata* Bonord.


21.

Peronospora Lepigoni *Fckl.*

Caespitibus laxis, griseis; hyphis erectis, ramosis, ràmis ultimis rectis, subaequalibus, patentibus; sporidiis oblongo-obovatis.
Ad Lepigoni rubri folia caulesque, raro. In monte Boss ca. Eberbach.

Fig. 4

Peronospora crispula Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 23, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 23 (fig. 5).

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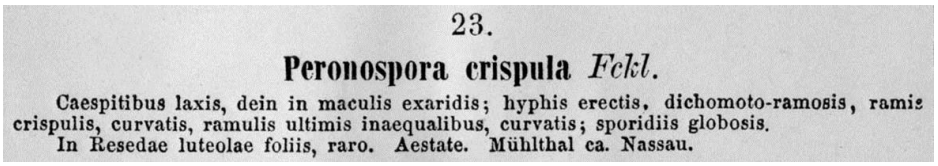
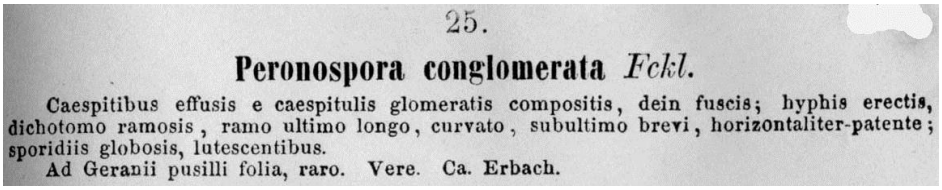

23.

Peronospora crispula *Fckl.*

Caespitibus laxis, dein in maculis exaridis; hyphis erectis, dichomoto-ramosis, ramis crispulis, curvatis, ramulis ultimis inaequalibus, curvatis; sporidiis globosis.
In Resedae luteolae foliis, raro. Aestate. Mühlthal ca. Nassau.

Fig. 5

Peronospora conglomerata Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 25, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 25 (fig. 6).

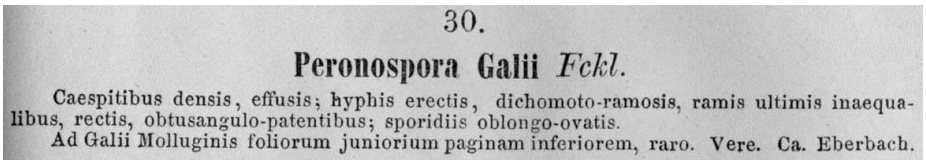

25.

Peronospora conglomerata *Fckl.*

Caespitibus effusis e caespitulis glomeratis compositis, dein fuscis; hyphis erectis, dichotomo ramosis, ramo ultimo longo, curvato, subultimo brevi, horizontaliter-patente; sporidiis globosis, lutescentibus.
Ad Geranii pusilli folia, raro. Vere. Ca. Erbach.

Fig. 6

Peronospora galii Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 30, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 30 (fig. 7).

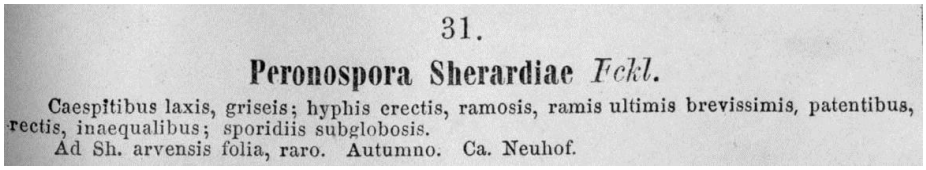

30.

Peronospora Galii *Fckl.*

Caespitibus densis, effusis; hyphis erectis, dichomoto-ramosis, ramis ultimis inaequalibus, rectis, obtusangulo-patentibus; sporidiis oblongo-ovatis.
Ad Galii Molluginis foliorum juniorium paginam inferiorem, raro. Vere. Ca. Eberbach.

Fig. 7

Peronospora sherardiae Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 31, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 31 (fig. 8).

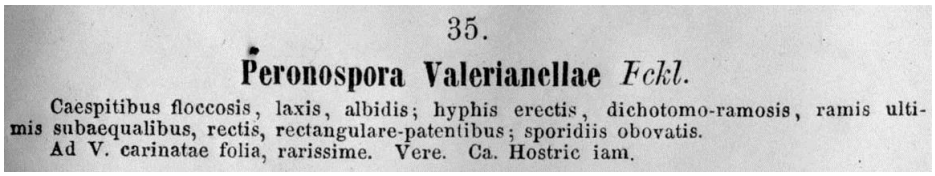

31.

Peronospora Sherardiae *Fckl.*

Caespitibus laxis, griseis; hyphis erectis, ramosis, ramis ultimis brevissimis, patentibus, rectis, inaequalibus; sporidiis subglobosis.
Ad Sh. arvensis folia, raro. Autumno. Ca. Neuhof.

Fig. 8

Peronospora valerianellae Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 35, 1863 [Hedwigia **2**(15): 132, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 35 (fig. 9).


35.

Peronospora Valerianellae *Fckl.*

Caespitibus floccosis, laxis, albidis; hyphis erectis, dichotomo-ramosis, ramis ultimis subaequalibus, rectis, rectangulare-patentibus; sporidiis obovatis.
Ad V. carinatae folia, rarissime. Vere. Ca. Hostric iam.

Fig. 9

Peronospora candida Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 38, 1863 [Hedwigia **2**(15): 132, 1863].

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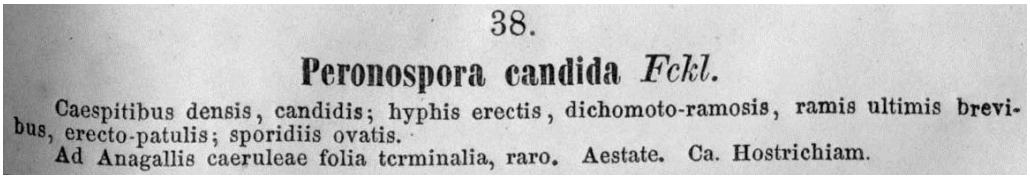
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 38 (fig. 10).


38.

Peronospora candida *Fckl.*

Caespitibus densis, candidis; hyphis erectis, dichomoto-ramosis, ramis ultimis brevibus, erecto-patulis; sporidiis ovatis.
Ad Anagallis caeruleae folia terminalia, raro. Aestate. Ca. Hostrichiam.

Fig. 10

Peronospora alta Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 39, 1863 [Hedwigia **2**(15): 133, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 39 (fig. 11).

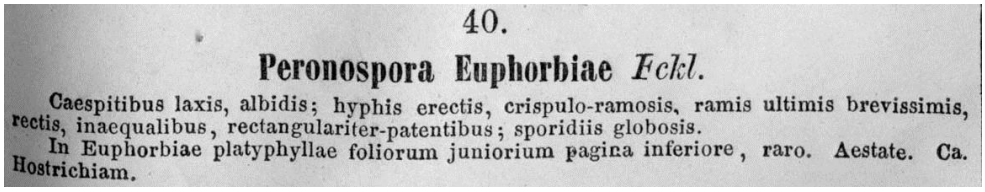
39.

Peronospora alta *Fckl.*

Caespitibus laxis, in macula decolorata, griseis; hyphis erectis, longis, ramificatio suboctoties longioribus, inaequalibus, curvatis; sporidiis ovatis.
In Plantaginis majoris foliis, non raro. Vere. Hattenheim.

Fig. 11

Peronospora euphorbiae Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 40, 1863 [Hedwigia **2**(15): 133, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 40 (fig. 12).

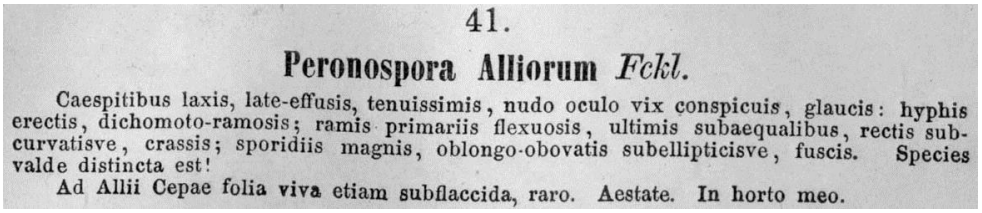

40.

Peronospora Euphorbiae *Fckl.*

Caespitibus laxis, albidis; hyphis erectis, crispulo-ramosis, ramis ultimis brevissimis, rectis, inaequalibus, rectangulariter-patentibus; sporidiis globosis.
In Euphorbiae platyphyllae foliorum juniorium pagina inferiore, raro. Aestate. Ca. Hostrichiam.

Fig. 12

Peronospora alliorum Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 41, 1863 [Hedwigia **2**(15): 133, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 41 (fig. 13).

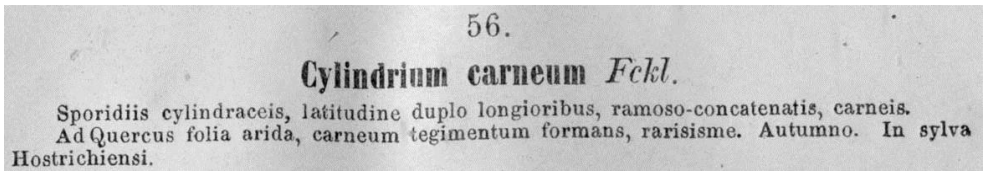

41.

Peronospora Alliorum *Fckl.*

Caespitibus laxis, late-effusis, tenuissimis, nudo oculo vix conspicuis, glaucis: hyphis erectis, dichomoto-ramosis; ramis primariis flexuosis, ultimis subaequalibus, rectis subcurvatisve, crassis; sporidiis magnis, oblongo-obovatis subellipticisve, fuscis. Species valde distincta est!
Ad Allii Cepae folia viva etiam subflaccida, raro. Aestate. In horto meo.

Fig. 13

Cylindrium carneum Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 56, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 347 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 56 (fig. 14).


56.

Cylindrium carneum *Fckl.*

Sporidiis cylindraceis, latitudine duplo longioribus, ramoso-concatenatis, carneis.
Ad Quercus folia arida, carneum tegimentum formans, rarissime. Autumno. In sylva Hostrichiensi.

Fig. 14

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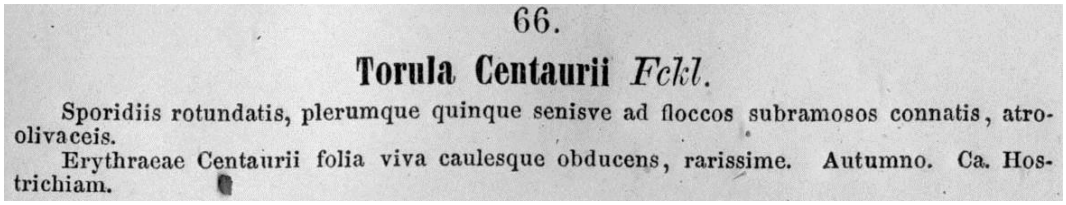
Torula centaurii Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 66, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 87 (1869-70) 1870].

≡ ***Taeniolina centaurii*** (Fuckel) M.B. Ellis, More Dematiaceous Hyphomycetes (Kew): 62, 1976.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 66 (fig. 15).


66.

Torula Centaurii *Fckl.*

Sporidiis rotundatis, plerumque quinque senisve ad floccos subramosos connatis, atro-olivaceis.

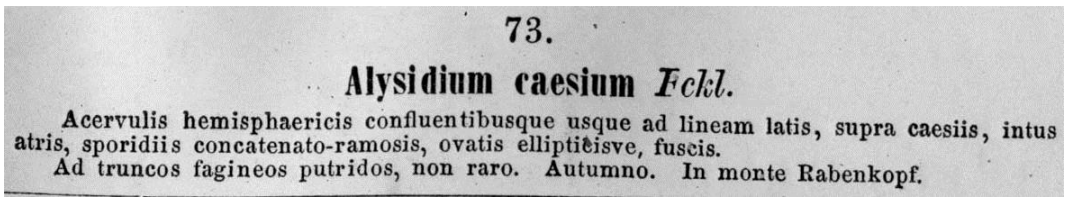
Erythraeae Centaurii folia viva caulesque obducens, rarissime. Autumno. Ca. Hostrichiam.

Fig. 15

Alysidium caesium Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 73, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 349 (1869-70) 1870].

≡ *Torula caesia* (Fuckel) Sacc., Syll. fung. (Abellini) **4**: 251, 1886.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 73 (fig. 16).


73.

Alysidium caesium *Fckl.*

Acervulis hemisphaericis confluentibusque usque ad lineam latis, supra caesiis, intus atris, sporidiis concatenato-ramosis, ovatis elliptieisve, fuscis.

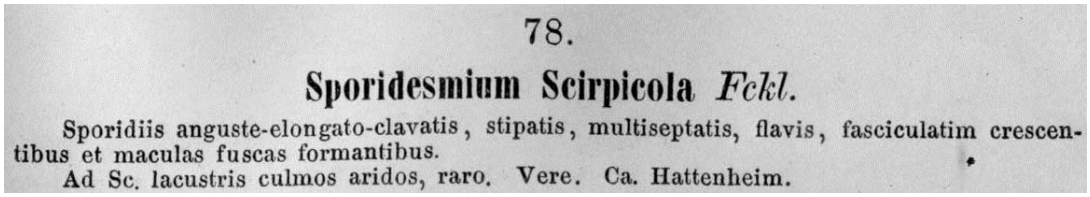
Ad truncos fagineos putridos, non raro. Autumno. In monte Rabenkopf.

Fig. 16

Sporidesmium scirpicola Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 78, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 140 (1869-70) 1870].

≡ ***Alternaria scirpicola*** (Fuckel) Sivan., Bitunicate Ascomycetes and their Anamorphs (Vaduz): 526, 1984.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 78 (fig. 17).


78.

Sporidesmium Scirpicola *Fckl.*

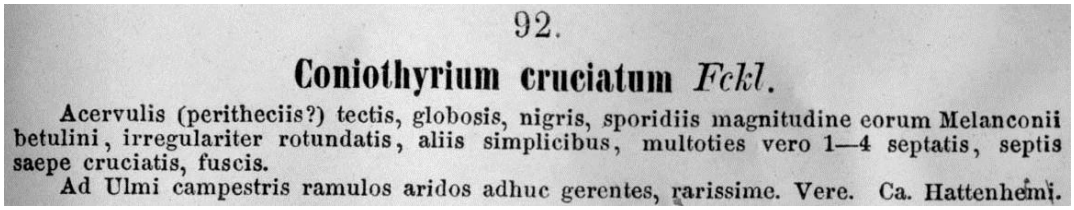
Sporidiis anguste-elongato-clavatis, stipatis, multiseptatis, flavis, fasciculatim crescentibus et maculas fuscas formantibus.

Ad Sc. lacustris culmos aridos, raro. Vere. Ca. Hattenheim.

Fig. 17

Coniothyrium cruciatum Fuckel, Fungi Rhen. Exs., Fasc. **1**: no. 92, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 173 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 92 (fig. 18).


92.

Coniothyrium cruciatum *Fckl.*

Acervulis (peritheciis?) tectis, globosis, nigris, sporidiis magnitudine eorum Melanconii betulini, irregulariter rotundatis, aliis simplicibus, multoties vero 1—4 septatis, septis saepe cruciatis, fuscis.

Ad Ulmi campestris ramulos aridos adhuc gerentes, rarissime. Vere. Ca. Hattenheim.

Fig. 18

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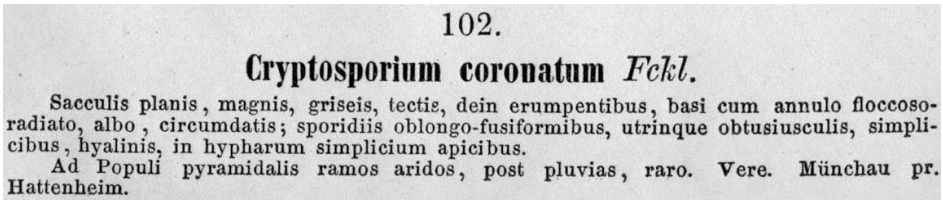
Fasc. 2

Cryptosporium coronatum Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 102, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 193 (1869-70) 1870].
≡ ***Phacostromella coronata*** (Fuckel) Petr., Sydowia **9**(1-6): 480, 1955.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 102 (fig. 19).

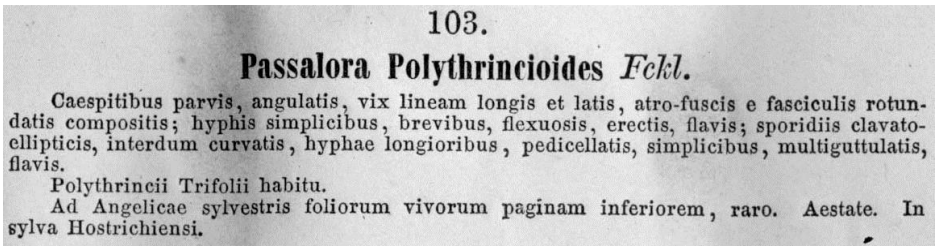

102.

Cryptosporium coronatum *Fckl.*

Sacculis planis, magnis, griseis, tectis, dein erumpentibus, basi cum annulo floccoso-radiato, albo, circumdatis; sporidiis oblongo-fusiformibus, utrinque obtusiusculis, simplicibus, hyalinis, in hypharum simplicium apicibus.
Ad Populi pyramidalis ramos aridos, post pluvias, raro. Vere. Münchau pr. Hattenheim.

Fig. 19

Passalora polythrincioides Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 103, 1863 [Hedwigia **2**(15): 133, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 353 (1869-70) 1870].
= ***Passalora depressa*** (Berk. & Broome) Sacc., Nuovo Giorn. Bot. Ital. **8**(2): 187, 1876.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 103 (fig. 20).

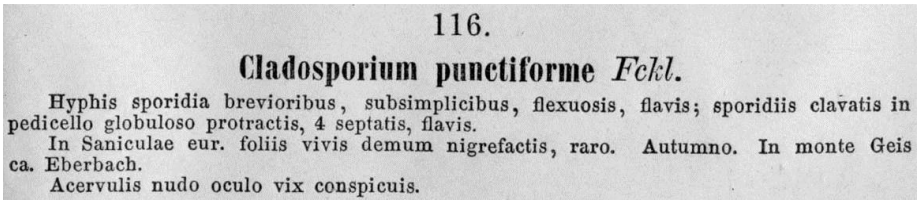

103.

Passalora Polythrincioides *Fckl.*

Caespitibus parvis, angulatis, vix lineam longis et latis, atro-fuscis e fasciculis rotundatis compositis; hyphis simplicibus, brevibus, flexuosis, erectis, flavis; sporidiis clavato-ellipticis, interdum curvatis, hyphae longioribus, pedicellatis, simplicibus, multiguttulatis, flavis.
Polythrincii Trifolii habitu.
Ad Angelicae sylvestris foliorum vivorum paginam inferiorem, raro. Aestate. In sylva Hostrichiensi.

Fig. 20

Cladosporium punctiforme Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 116, 1863 [Hedwigia **2**(15): 133, 1863].
= ***Pseudocercospora saniculae-europaeae*** (E. Müll. & Arx) U. Braun & Crous, *Mycosphaerella* and its anamorphs: 1. Names published in *Cercospora* and *Passalora*: 365, 2003.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 116 (fig. 21).


116.

Cladosporium punctiforme *Fckl.*

Hyphis sporidia brevioribus, subsimplicibus, flexuosis, flavis; sporidiis clavatis in pedicello globuloso protractis, 4 septatis, flavis.
In Saniculae eur. foliis vivis demum nigrefactis, raro. Autumno. In monte Geis ca. Eberbach.
Acervulis nudo oculo vix conspicuis.

Fig. 21

Cercospora Fresen. ex Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 117, 1863 [Hedwigia **2**(15): 133, 1863] and

Cercospora penicillata (Ces.) Fuckel (as "(Ces.) Fresen."), Fungi Rhen. Exs., Fasc. **2**: no. 117, 1863 [Hedwigia **2**(15): 133, 1863].
≡ *Passalora penicillata* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Ed. Nova, Cent. 6: no. 587, 1857 [Bot. Zeitung **15**: 429 1857; Flora **40**: 383, 1857].
≡ *Phaeoramularia penicillata* (Ces.) X.J. Liu & Y.L. Guo, Acta Phytopathol. Sin. **12**(4): 13, 1982.
= *Exosporium depazeoides* Desm., Ann. Sci. Nat., Bot., Sér. 3, **11**(2): 364, 1849.

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≡ *Cercospora depazeoides* (Desm.) Sacc., Mycoth. Ven.: no. 187, 1875.
≡ ***Pseudocercospora depazeoides*** (Desm.) U. Braun & Crous, in Braun, Crous & Nakashima, IMA Fungus **6**(2): 420, 2015 and

Cercospora penicillata f. *apii* Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 117, 1863 [Hedwigia **2**(15): 133, 1863].

Notes: The name of the genus *Cercospora* and the new combination *C. penicillata* were validly published by Fuckel on the label of Fungi Rhen. Exs. 117 (fig. 22). Furthermore, f. *apii* is also a valid forma name published as host forma. The complicated nomenclature and taxonomy of *Cercospora depazeoides* and *C. penicillata*, including the typification of *Cercospora*, have been discussed by Braun & Crous (2016).

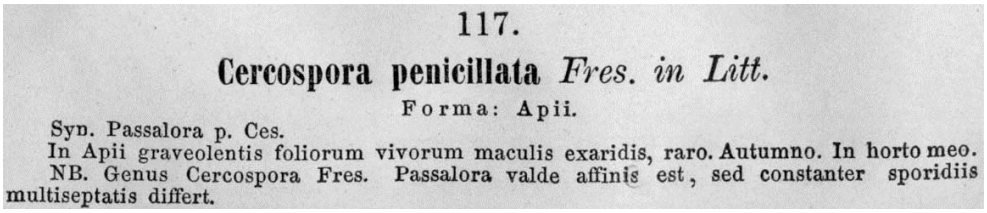
117.
Cercospora penicillata *Fres. in Litt.*
Forma: Apii.
Syn. Passalora p. Ces.
In Apii graveolentis foliorum vivorum maculis exaridis, raro. Autumno. In horto meo.
NB. Genus Cercospora Fres. Passalora valde affinis est, sed constanter sporidiis multiseptatis differt.

Fig. 22

Cercospora penicillata f. *opuli* Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 118, 1863.
= *Cercospora opuli* Höhn., Fungi Imperfecti Exsiccati Fasc. 9: no. 445, 1907.
≡ ***Pseudocercospora opuli*** (Höhn.) U. Braun & Crous, *Mycosphaerella* and its anamorphs: 1. Names published in *Cercospora* and *Passalora*: 299, 2003.
Notes: Although published without description or diagnosis, this forma is validly published as host forma (fig. 23).

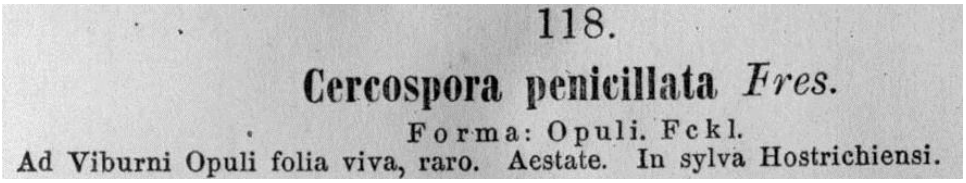
118.
Cercospora penicillata *Fres.*
Forma: Opuli. Fckl.
Ad Viburni Opuli folia viva, raro. Aestate. In sylva Hostrichiensi.

Fig. 23

Cercospora penicillata f. *chenopodii* Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 119, 1863.
= ***Cercospora chenopodii*** Fresen., Beitr. Mykol.: 92. 1863.
Notes: Although published without description or diagnosis, this forma is validly published as host forma (fig. 24). The nomenclature, phylogeny and taxonomy of this cercosporoid fungus has been discussed in detail in Groenewald et al. (2013: 148). Although characterized by having unusually broad obclavate conidia with few septa, this species pertains to *Cercospora* s. str. as proven with a phylogenetic multilocus examination.

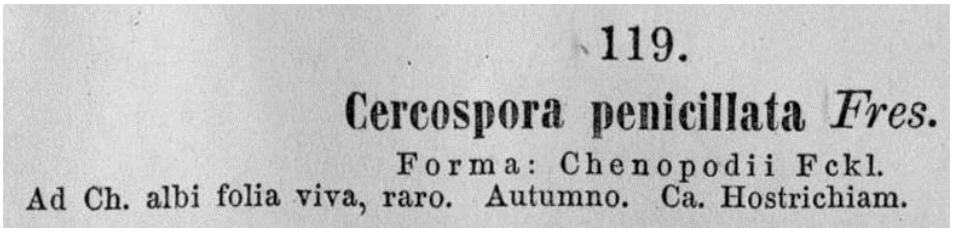
119.
Cercospora penicillata *Fres.*
Forma: Chenopodii Fckl.
Ad Ch. albi folia viva, raro. Autumno. Ca. Hostrichiam.

Fig. 24

Cercospora ferruginea Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 120, 1863 [Hedwigia **2**(15): 134, 1863].
≡ ***Ragnhildiana ferruginea*** (Fuckel) U. Braun, C. Nakash., Videira & Crous, Stud. Mycol. **87**: 343, 2017.

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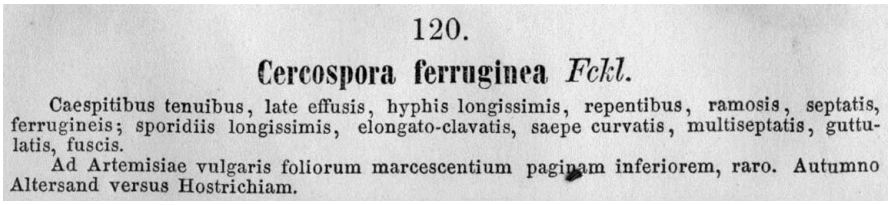
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 120 (fig. 25).



120.

Cercospora ferruginea *Fckl.*

Caespitibus tenuibus, late effusis, hyphis longissimis, repentibus, ramosis, septatis, ferrugineis; sporidiis longissimis, elongato-clavatis, saepe curvatis, multiseptatis, guttulatis, fuscis.

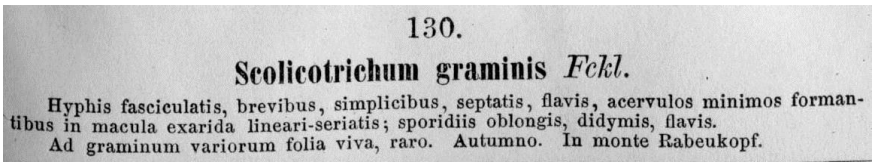
Ad Artemisiae vulgaris foliorum marcescentium paginam inferiorem, raro. Autumno Altersand versus Hostrichiam.

Fig. 25

Scolicotrichum graminis Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 130, 1863 [Hedwigia **2**(15): 134, 1863].

≡ ***Graminopassalora graminis*** (Fuckel) U. Braun, C. Nakash., Videira & Crous, Stud. Mycol. **87**: 308, 2017.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 130 (fig. 26).



130.

Scolicotrichum graminis *Fckl.*

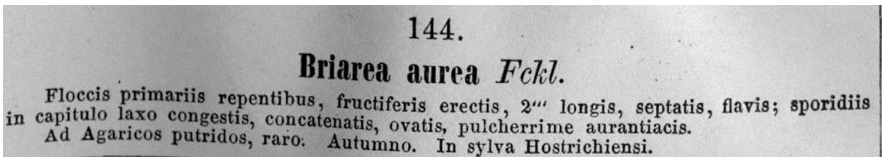
Hyphis fasciculatis, brevibus, simplicibus, septatis, flavis, acervulos minimos formantibus in macula exarida lineari-seriatis; sporidiis oblongis, didymis, flavis.

Ad graminum variorum folia viva, raro. Autumno. In monte Rabeukopf.

Fig. 26

Briarea aurea Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 144, 1863 [Hedwigia **2**(15): 134, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 359 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 144 (fig. 27).



144.

Briarea aurea *Fckl.*

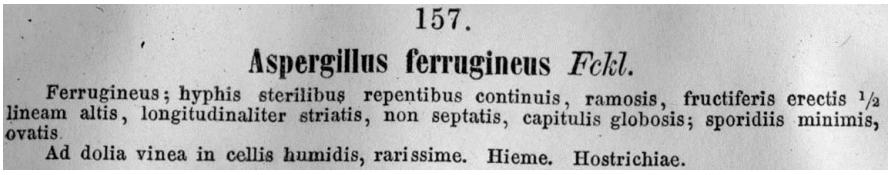
Floccis primariis repentibus, fructiferis erectis, 2‴ longis, septatis, flavis; sporidiis in capitulo laxo congestis, concatenatis, ovatis, pulcherrime aurantiacis.

Ad Agaricos putridos, raro. Autumno. In sylva Hostrichiensi.

Fig. 27

Aspergillus ferrugineus Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 157, 1863, nom. illeg. (Art. 53.1) [Hedwigia **2**(15): 134, 1863], non Link, 1824.

Notes: This is an illegitimate name (homonym) with a description on the label of Fungi Rhen. Exs. 157 (fig. 28).



157.

Aspergillus ferrugineus *Fckl.*

Ferrugineus; hyphis sterilibus repentibus continuis, ramosis, fructiferis erectis ½ lineam altis, longitudinaliter striatis, non septatis, capitulis globosis; sporidiis minimis, ovatis.

Ad dolia vinea in cellis humidis, rarissime. Hieme. Hostrichiae.

Fig. 28

Acremonium vaccinii Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 158, 1863 [Hedwigia **2**(15): 134, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 362 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 158 (fig. 29).

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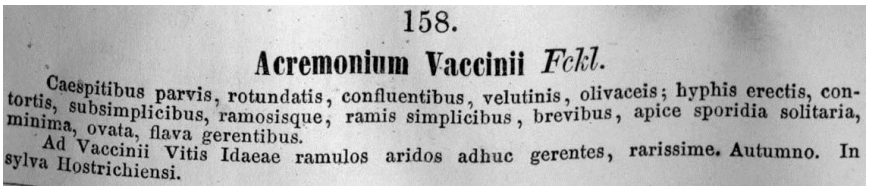


158.

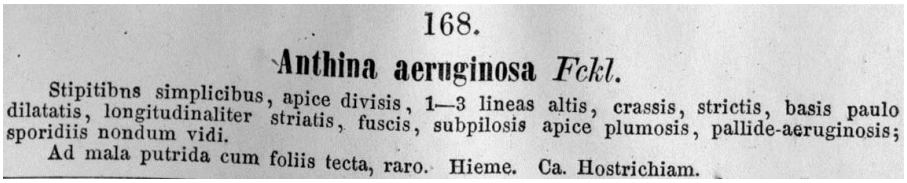
Acremonium Vaccinii *Fckl.*

Caespitibus parvis, rotundatis, confluentibus, velutinis, olivaceis; hyphis erectis, contortis, subsimplicibus, ramosisque, ramis simplicibus, brevibus, apice sporidia solitaria, minima, ovata, flava gerentibus.

Ad Vaccinii Vitis Idaeae ramulos aridos adhuc gerentes, rarissime. Autumno. In sylva Hostrichiensi.

Fig. 29

Anthina aeruginosa Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 168, 1863 [Hedwigia **2**(15): 134, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 365 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 168 (fig. 30).



168.

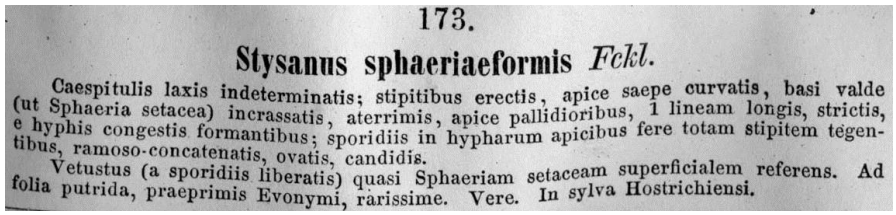
Anthina aeruginosa *Fckl.*

Stipitibus simplicibus, apice divisis, 1—3 lineas altis, crassis, strictis, basis paulo dilatatis, longitudinaliter striatis, fuscis, subpilosis apice plumosis, pallide-aeruginosis; sporidiis nondum vidi.

Ad mala putrida cum foliis tecta, raro. Hieme. Ca. Hostrichiam.

Fig. 30

Stysanus sphaeriiformis Fuckel (as "*sphaeriaeformis*"), Fungi Rhen. Exs., Fasc. **2**: no. 173, 1863 [Hedwigia **2**(15): 134, 1863].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 173 (fig. 31).



173.

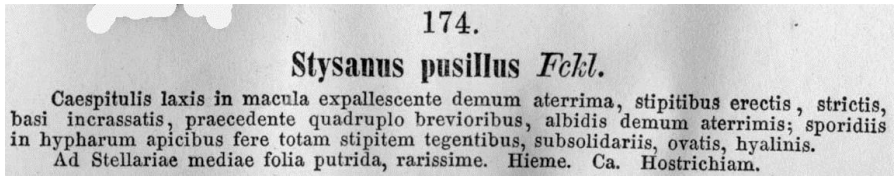
Stysanus sphaeriaeformis *Fckl.*

Caespitulis laxis indeterminatis; stipitibus erectis, apice saepe curvatis, basi valde (ut Sphaeria setacea) incrassatis, aterrimis, apice pallidioribus, 1 lineam longis, strictis, e hyphis congestis formantibus; sporidiis in hypharum apicibus fere totam stipitem tegentibus, ramoso-concatenatis, ovatis, candidis.

Vetustus (a sporidiis liberatis) quasi Sphaeriam setaceam superficialem referens. Ad folia putrida, praeprimis Evonymi, rarissime. Vere. In sylva Hostrichiensi.

Fig. 31

Stysanus pusillus Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 174, 1863 [Hedwigia **2**(15): 134, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 101 (1869-70) 1870].
≡ ***Phacellium episphaerium*** (Desm.) U. Braun, Nova Hedwigia **50**: 509, 1990.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 174 (fig. 32).



174.

Stysanus pusillus *Fckl.*

Caespitulis laxis in macula expallescente demum aterrima, stipitibus erectis, strictis, basi incrassatis, praecedente quadruplo brevioribus, albidis demum aterrimis; sporidiis in hypharum apicibus fere totam stipitem tegentibus, subsolidariis, ovatis, hyalinis.

Ad Stellariae mediae folia putrida, rarissime. Hieme. Ca. Hostrichiam.

Fig. 32

Sphaeridium flavovirens Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 180, 1863 [Hedwigia **2**(15): 134, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 309 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 180 (fig. 33).

180.

Sphaeridium flavo-virens *Fckl.*

Capitulo pulchre flavo-virente c. stipite brevissimo; sporidiis ut in praecedente.

Ad Fagi folia putrida praecedentis consortione, sed semper in petiolis nigrofactis et rarius Autumno. In sylva Hostrichiensi.

Fig. 33

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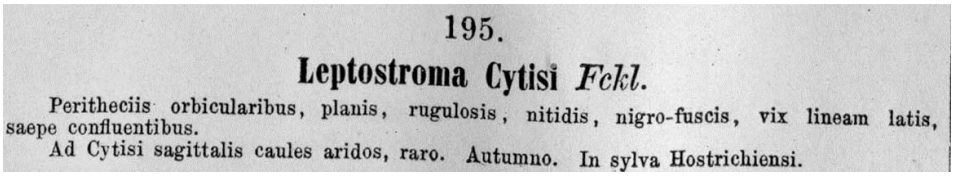
Leptostroma cytisi Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 195, 1863 [Hedwigia **2**(15): 134, 1863].

≡ *Leptothyrium cytisi* (Fuckel) Fuckel Jahrb. Nassauischen Vereins Naturk. **23-24**: 383 (1869-70) 1870.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 195 (fig. 34). *Leptostroma cytisi* was cited as basionym for *Leptothyrium cytisi* (*Actinothyrium cytisi* Fuckel, Bot. Zeitung (Berlin) **19**(35): 249, 1861 was neither mentioned under *Leptostroma cytisi* nor under *Leptothyrium cytisi*, although sometimes cited as basionym for the latter name).



195.

Leptostroma Cytisi *Fckl.*

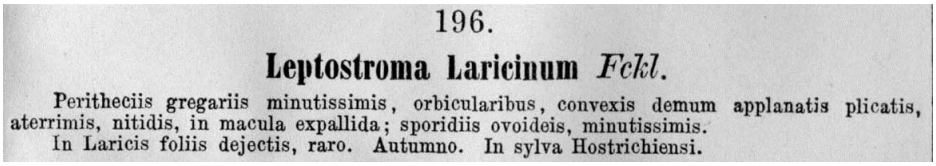
Peritheciis orbicularibus, planis, rugulosis, nitidis, nigro-fuscis, vix lineam latis, saepe confluentibus.

Ad Cytisi sagittalis caules aridos, raro. Autumno. In sylva Hostrichiensi.

Fig. 34

Leptostroma laricinum Fuckel, Fungi Rhen. Exs., Fasc. **2**: no. 196, 1863 [Hedwigia **2**(15): 134, 1863].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 196 (fig. 35).



196.

Leptostroma Laricinum *Fckl.*

Peritheciis gregariis minutissimis, orbicularibus, convexis demum applanatis plicatis, aterrimis, nitidis, in macula expallida; sporidiis ovoideis, minutissimis.

In Laricis foliis dejectis, raro. Autumno. In sylva Hostrichiensi.

Fig. 35

Fasc. 3

Fusarium violaceum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 209, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 369 (1869-70) 1870].

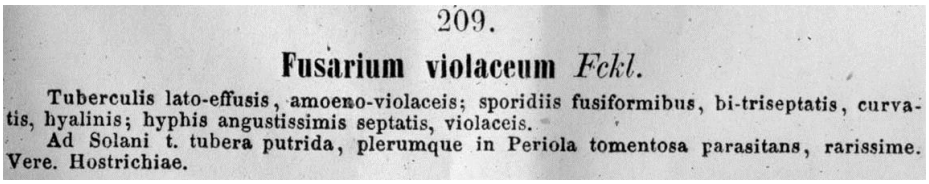
= *Fusarium caeruleum* Lib. ex Sacc. [as "*cæruleum*"], Syll. Fung. **4**: 705, 1886 [based on *Selenosporium caeruleum* Lib., in herb.].

≡ *Fusarium caeruleum* var. *cellulosae* Sartory, R. Sartory, J. Mey. & Bamuli, Papier **38**(1): 43, 1935.

≡ *Fusarium solani* var. *caeruleum* (Lib. ex Sacc.) Bilaĭ [as "*coeruleum*"], Fuzarii: 287, 1955.

≡ *Fusarium solani* var. *caeruleum* (Lib. ex Sacc.) C. Booth [as "*coeruleum*"], *The Genus Fusarium*: 51, 1971.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 209 (fig. 36). *Fusarium violaceum* P. Crouan & H. Crouan, Florule Finistère (Paris): 14, 1867, is a younger homonym (nom. illeg.) of Fuckel's name.



209.

Fusarium violaceum *Fckl.*

Tuberculis lato-effusis, amoeno-violaceis; sporidiis fusiformibus, bi-triseptatis, curvatis, hyalinis; hyphis angustissimis septatis, violaceis.

Ad Solani t. tubera putrida, plerumque in Periola tomentosa parasitans, rarissime. Vere. Hostrichiae.

Fig. 36

Fusarium sambucinum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 211, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 167 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 211 (fig. 37).

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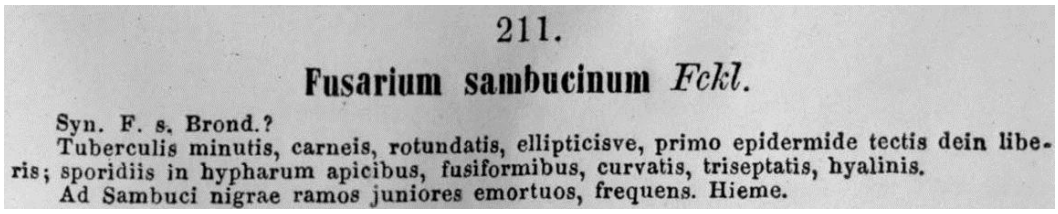


211.

Fusarium sambucinum *Fckl.*

Syn. F. s. Brond.?
Tuberculis minutis, carneis, rotundatis, ellipticisve, primo epidermide tectis dein liberis; sporidiis in hypharum apicibus, fusiformibus, curvatis, triseptatis, hyalinis.
Ad Sambuci nigrae ramos juniores emortuos, frequens. Hieme.

Fig. 37

Fusarium sphaeriae Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 212, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 370 (1869-70) 1870].
≡ ***Macroconia sphaeriae*** (Fuckel) Gräfenhan & Schroers, in Gräfenhan, Schroers, Nirenberg & Seifert, Stud. Mycol. **68**: 103, 2011.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 212 (fig. 38).

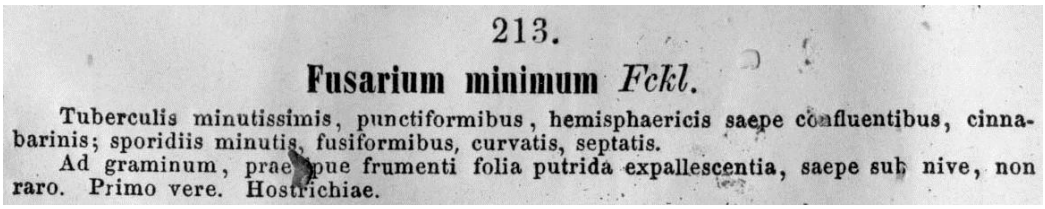
212.

Fusarium Sphaeriae *Fckl.*

Tuberculis minimis, irregulariter rotundatis effusisque, amoeno-carneis; sporidiis anguste fusiformibus filiformibusve, curvatis, 4—5 septatis, utrinque obtusis, hyalinis.
Ad Sphaeriae dolioli vetustae ostiola, in Urtica dioica, rarissime. Vere. Ca. Hostrichiam.

Fig. 38

Fusarium minimum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 213, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 370 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 213 (fig. 39).



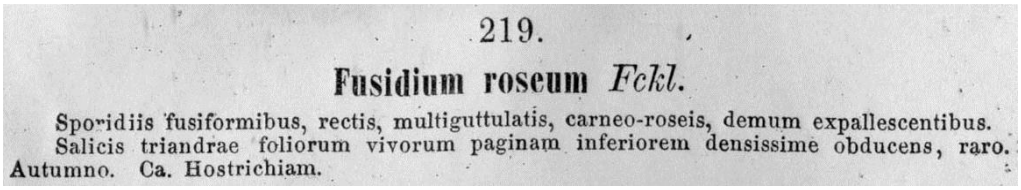
213.

Fusarium minimum *Fckl.*

Tuberculis minutissimis, punctiformibus, hemisphaericis saepe confluentibus, cinnabarinis; sporidiis minutis, fusiformibus, curvatis, septatis.
Ad graminum, praesertim frumenti folia putrida expallescentia, saepe sub nive, non raro. Primo vere. Hostrichiae.

Fig. 39

Fusidium roseum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 219, 1863, nom. illeg. (Art. 53.1) [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 370 (1869-70) 1870], non (Link) Link, 1816.
≡ ***Ramularia rosea*** Sacc. [as "(Fuckel) Sacc."], Fungi ital. del., Tab. 1001, 1881.
Notes: This is an illegitimate name (younger homonym) published with a description on the label of Fungi Rhen. Exs. 219 (fig. 40).



219.

Fusidium roseum *Fckl.*

Sporidiis fusiformibus, rectis, multiguttulatis, carneo-roseis, demum expallescentibus.
Salicis triandrae foliorum vivorum paginam inferiorem densissime obducens, raro. Autumno. Ca. Hostrichiam.

Fig. 40

Fusidium vaccinii f. *vaccinii-myrtilli* Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 220, 1863.
≡ *Exobasidium vaccinii-myrtilli* (Fuckel) Juel, Svensk Bot. Tidskr. **6**(3): 364, 1912.
Notes: Although published without description or diagnosis, this forma is validly published as host forma (fig. 41).

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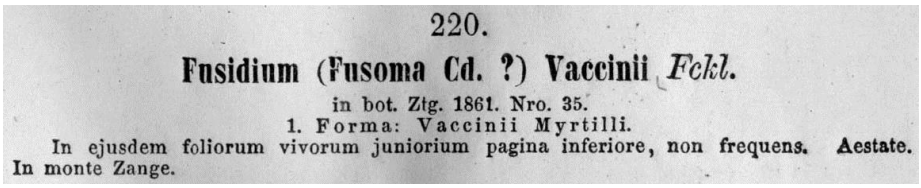

220.

Fusidium (Fusoma Cd. ?) Vaccinii *Fckl.*

in bot. Ztg. 1861. Nro. 35.

1. Forma: Vaccinii Myrtilli.

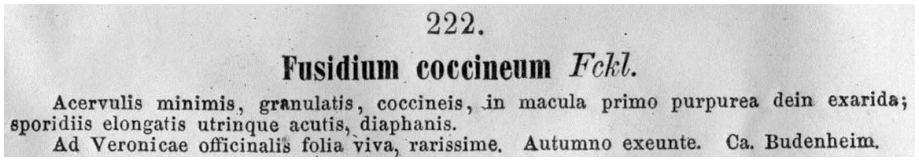
In ejusdem foliorum vivorum juniorum pagina inferiore, non frequens. Aestate. In monte Zange.

Fig. 41

Fusidium coccineum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 222, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 370 (1869-70) 1870].

≡ ***Ramularia coccinea*** (Fuckel) Vestergr., Micromyc. Rar. Sel. Praec. Scand.: no. 148, 1899.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 222 (fig. 42).


222.

Fusidium coccineum *Fckl.*

Acervulis minimis, granulatis, coccineis, in macula primo purpurea dein exarida; sporidiis elongatis utrinque acutis, diaphanis.

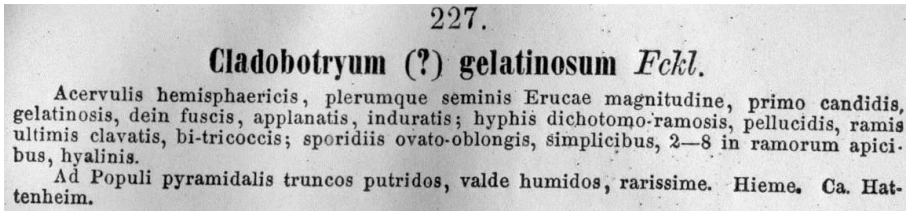
Ad Veronicae officinalis folia viva, rarissime. Autumno exeunte. Ca. Budenheim.

Fig. 42

Cladobotryum gelatinosum Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 227, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 360 (1869-70) 1870].

≡ *Dendrodochium gelatinosum* (Fuckel) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Wien Math.-Naturwiss. Cl., Abt. 1, **119**: 665, 1910.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 227 (fig. 43).


227.

Cladobotryum (?) gelatinosum *Fckl.*

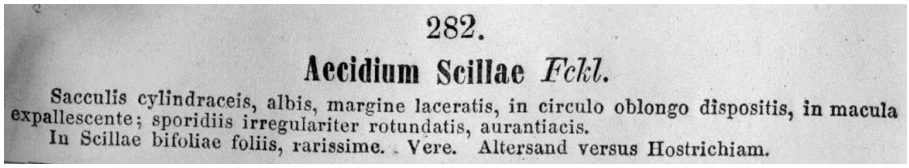
Acervulis hemisphaericis, plerumque seminis Erucae magnitudine, primo candidis, gelatinosis, dein fuscis, applanatis, induratis; hyphis dichotomo-ramosis, pellucidis, ramis ultimis clavatis, bi-tricoccis; sporidiis ovato-oblongis, simplicibus, 2—8 in ramorum apicibus, hyalinis.

Ad Populi pyramidalis truncos putridos, valde humidos, rarissime. Hieme. Ca. Hattenheim.

Fig. 43

Aecidium scillae Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 282, 1863 [Hedwigia **2**(15): 135, 1863].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 282 (fig. 44).


282.

Aecidium Scillae *Fckl.*

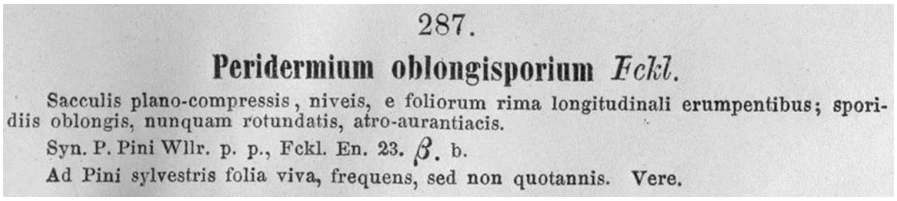
Sacculis cylindraceis, albis, margine laceratis, in circulo oblongo dispositis, in macula expallescente; sporidiis irregulariter rotundatis, aurantiacis.

In Scillae bifoliae foliis, rarissime. Vere. Altersand versus Hostrichiam.

Fig. 44

Peridermium oblongisporium Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 287, 1863 [Hedwigia **2**(15): 135, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 42 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 287 (fig. 45).


287.

Peridermium oblongisporium *Fckl.*

Sacculis plano-compressis, niveis, e foliorum rima longitudinali erumpentibus; sporidiis oblongis, nunquam rotundatis, atro-aurantiacis.

Syn. P. Pini Wllr. p. p., Fckl. En. 23. β. b.

Ad Pini sylvestris folia viva, frequens, sed non quotannis. Vere.

Fig. 45

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Melampsora carpini (Rabenh.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **15**: 5, 1860 [Fungi Rhen. Exs., Fasc. **3**: no. 294, 1863].

≡ *Epitea longicapsula* (DC.) Rabenh. f. *carpini* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio), Ed. Nov., Ser. Sec., Cent. 1, no. 95, 1859 [Bot. Zeit. **17**: 629, 1859; Flora **42**: 436, 1859;].

Notes: The combination (comb. et stat. nov.) *Melampsora carpini* was validly published by Fuckel (1860), based on *Epitea longicapsula* f. *carpini*, which is a validly published host forma. *Caeoma carpini* Nees, sometimes considered the basionym for this combination, was neither cited in Fuckel (1860) nor in Fungi Rhen. Exs. 294, 1863 (fig. 46).

294.

Melampsora Carpini *Fckl. En. 26.*

I. Uredo ejus.

Syn U. longicapsularis Form: Carpini Rbh. hb myc. 95.

II. Melampsora propria.

In Carpini Betulae foliis vivis, raro. I. & II. Aestate. Ca. Rauenthal.

Fig. 46

Melampsora epilobii Fuckel, Fungi Rhen. Exs., Fasc. **3**: no. 300, 1863.

= ***Pucciniastrum epilobii*** G.H. Otth, Mitth. Naturf. Ges. Bern **476-479**: 72, 1861.

Notes: *Melampsora epilobii* was validly published on the label of Fungi Rhen. Exs. 300 (fig. 47). A detailed discussion of the nomenclature and taxonomy of this species has recently been publisged by Scholler *et al.* (2019).

300.

Melampsora Epilobii *Fckl.*

I. Uredo ejus.

Syn. U. Epilobii DC.

Ad E. montani, rosei et angustifolii folia, frequens. Aestate.

II. Melampsora propria.

Acervulis planis, confluentibus, atro-fuscis; sporidiis obovato-clavatis, fuscis.

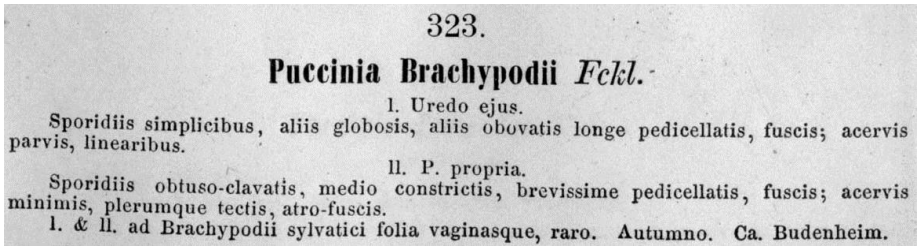
Ad E. angustifolii foliorum marcescentium paginam inferiorem, raro. Autumno. in sylva Hostrichiensi.

Fig. 47

Fasc. 4

Puccinia brachypodii Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 323, 1863, nom. illeg. (Art. 53.1) [Hedwigia **2**(15): 135, 1863], non G.H. Otth, 1861.

Notes: This is an illegitimate name published with a description on the label of Fungi Rhen. Exs. 323 (fig. 48).



323.

Puccinia Brachypodii *Fckl.*

I. Uredo ejus.

Sporidiis simplicibus, aliis globosis, aliis obovatis longe pedicellatis, fuscis; acervis parvis, linearibus.

II. P. propria.

Sporidiis obtuso-clavatis, medio constrictis, brevissime pedicellatis, fuscis; acervis minimis, plerumque tectis, atro-fuscis.

I. & II. ad Brachypodii sylvatici folia vaginasque, raro. Autumno. Ca. Budenheim.

Fig. 48

Puccinia millefolii Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 349, 1863 [Hedwigia **2**(15): 136, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 55 (1869-70) 1870].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 349 (fig. 49).

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349.

Puccinia Millefolii *Fckl.*

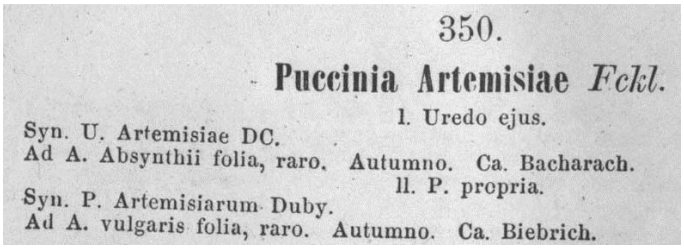
P. propria.

Sporidiis oblongo-clavatis, medio paulo constrictis, articulo inferiore obconico, superiore ovato, obtuso apiculatove, fuscis, stipitibus longe, deorsum dilatatis; acervulis minusit, hemisphaericis, fuscis.

In Achilleae Millefolii foliorum pagina inferiore, rarissime. Aestate. Ca. Hostrichiam.

Fig. 49

Puccinia artemisiae Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 350, 1863, nom. illeg. (Art. 52.1).
Notes: This is an illegitimate species name. Puccinia *artemisiarum* Duby, Bot. Gall., Ed. 2, **2**: 888, 1830 was cited as synonym (fig. 50).


350.

Puccinia Artemisiae *Fckl.*

I. Uredo ejus.

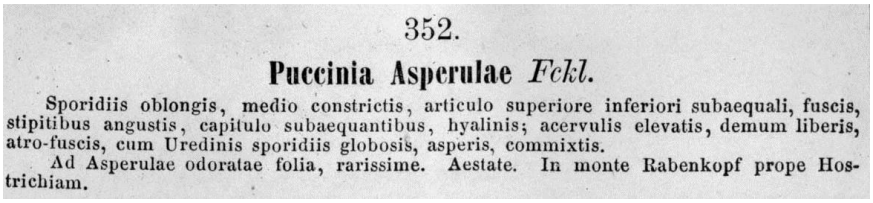
Syn. U. Artemisiae DC.
Ad A. Absynthii folia, raro. Autumno. Ca. Bacharach.

II. P. propria.

Syn. P. Artemisiarum Duby.
Ad A. vulgaris folia, raro. Autumno. Ca. Biebrich.

Fig. 50

Puccinia asperulae Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 352, 1863 [Hedwigia **2**(15): 136, 1863 and Jahrb. Nassauischen Vereins Naturk. **23-24**: 56 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 352 (fig. 51).


352.

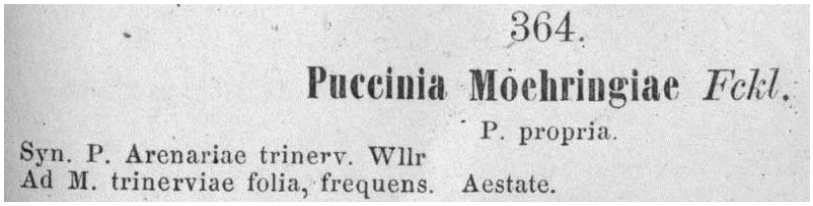
Puccinia Asperulae *Fckl.*

Sporidiis oblongis, medio constrictis, articulo superiore inferiori subaequali, fuscis, stipitibus angustis, capitulo subaequantibus, hyalinis; acervulis elevatis, demum liberis, atro-fuscis, cum Uredinis sporidiis globosis, asperis, commixtis.

Ad Asperulae odoratae folia, rarissime. Aestate. In monte Rabenkopf prope Hostrichiam.

Fig. 51

Puccinia moehringiae Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 364, 1863 [and Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 51 (1869-70) 1870, nom. nud. (Art. 38.1).
Notes: Fuckel (1870) cited *Puccinia arenariae-serpyllifoliae* DC., Fl. franç., Edn 3 (Paris) **5/6**: 55, 1815 as synonym (fig. 52).


364.

Puccinia Moehringiae *Fckl.*

P. propria.

Syn. P. Arenariae trinerv. Wllr
Ad M. trinerviae folia, frequens. Aestate.

Fig. 52

Puccinia mixta Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 377, 1863 [Jahrb. Nassauischen Vereins Naturk. **23-24**: 58 (1869-70) 1870].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 377 (fig. 53).

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377.

Puccinia mixta *Fckl.*

I. Uredo ejus.

Syn. U. limbata Rbh. (?)

II. P. propria.

Sporidiis oblongis, pedicellatis, aliis medio contrictis, septatis, aliis simplicibus obovatis, fuscis; acervis irregulariter, semper tectis, planis, oblongis, fuscis.

Syn. P. Liliacearum DC. (?)

Ad Allii Schoenoprasi culti folia, rarissime. Autumno. In horto meo.

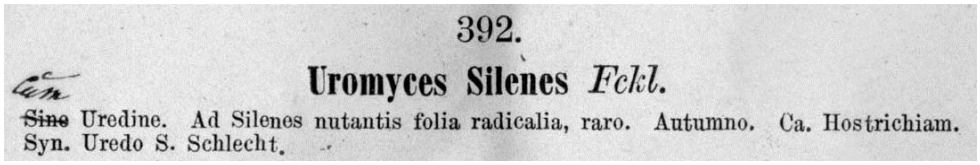
Fig. 53

Uromyces silenes (Schltdl.) Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 392, 1863 [Jahrb. Nassauischen Vereins Naturk. **23-24**: 61 (1869-70) 1870].

≡ *Caeoma silenes* Schltdl., Fl. berol. **2**: 128, 1824.

≡ *Uredo silenes* (Schltdl.) Rabenh., Deutschl. Krypt.-Fl. **1**: 6, 1844.

Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 392 (fig. 54).


392.

Uromyces Silenes *Fckl.*

~~Sine~~ Uredine. Ad Silenes nutantis folia radicalia, raro. Autumno. Ca. Hostrichiam.

Syn. Uredo S. Schlecht.

Fig. 54

Uromyces scrophulariae Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 395, 1863.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 395 (fig. 55). *Aecidium scrophulariae* DC. was not cited as synonym. *Aecidium scrophulariacearum* Lasch, in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 8: no. 784, 1845 [and Arch. Pharm. (Lemgo) **94**: 255, 1845; Bot. Zeitung **3**: 558, 1845] is a nom. nud. (see Braun 2018: 14).

395.

Uromyces Scrophulariae *Fckl.*

I. Uredo ejus.

Syn. Uredo seu Aecidium Scrophularinearum Lasch.

II. Uromyces proprius.

Sporidiis ovatis, apiculatis, fuscis, in pedicello longo, hyalino; acervis irregulariter-rotundatis, saepe confluentibus, ab epidermide tectis, dein liberis, griseo-fuscis, Uredinis acervis circumdantibus, in macula exarida. In Sc. Ehrharti foliis ramulisque, rarissime. Autumno. In sylva Hostrichiensi. Arnsbach.

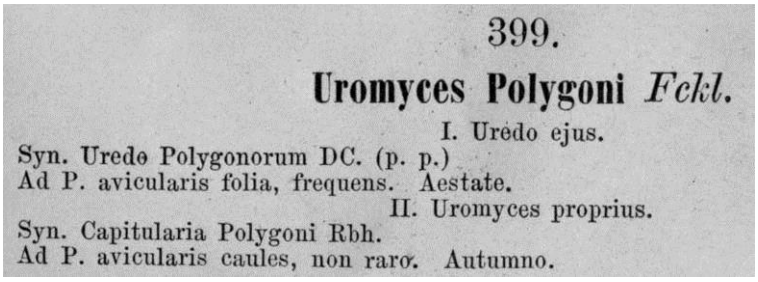
Fig. 55

Uromyces polygoni (Rabenh.) Fuckel, Fungi Rhen. Exs., Fasc. **4**: no. 399, 1863 [Jahrb. Nassauischen Vereins Naturk. **23-24**: 64 (1869-70) 1870].

≡ Capitularia *polygoni* Rabenh., Bot. Zeitung (Berlin) **9**(25): 449, 1851.

= ***Uromyces polygoni-avicularis*** (Pers.) G.H. Otth, Mitth. Naturf. Ges. Bern **531-552**: 87, [1863] 1864.

Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 399 (fig. 56).


399.

Uromyces Polygoni *Fckl.*

I. Uredo ejus.

Syn. Uredo Polygonorum DC. (p. p.)

Ad P. avicularis folia, frequens. Aestate.

II. Uromyces proprius.

Syn. Capitularia Polygoni Rbh.

Ad P. avicularis caules, non raro. Autumno.

Fig. 56

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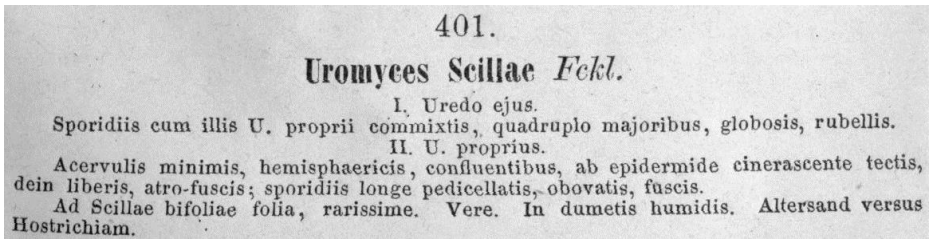
Fasc. 5

Uromyces scillae Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 401, 1863 [Hedwigia **3**(10): 156, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 401 (fig. 57).

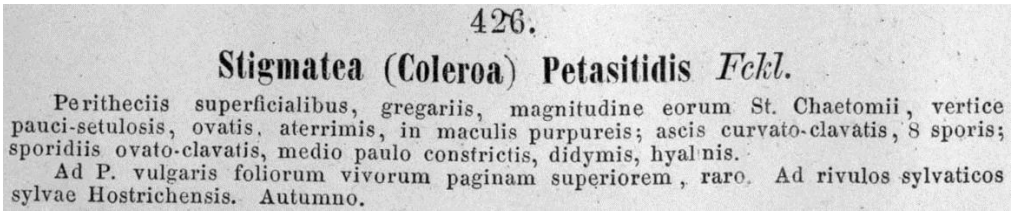

401.

Uromyces Scillae *Fckl.*

I. Uredo ejus.
Sporidiis cum illis U. proprii commixtis, quadruplo majoribus, globosis, rubellis.
II. U. proprius.
Acervulis minimis, hemisphaericis, confluentibus, ab epidermide cinerascente tectis, dein liberis, atro-fuscis; sporidiis longe pedicellatis, obovatis, fuscis.
Ad Scillae bifoliae folia, rarissime. Vere. In dumetis humidis. Altersand versus Hostrichiam.

Fig. 57

Stigmatea petasitis Fuckel [as "*petasitidis*"], Fungi Rhen. Exs., Fasc. **5**: no. 426, 1863 [Hedwigia **3**(10): 156, 1864].
≡ ***Epipolaeum petasitis*** (Fuckel) E. Müll. [as "*petasitidis*"], in Müller & von Arx, Beitr. Kryptfl. Schweiz **11**(2): 486, 1962).
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 426 (fig. 58).

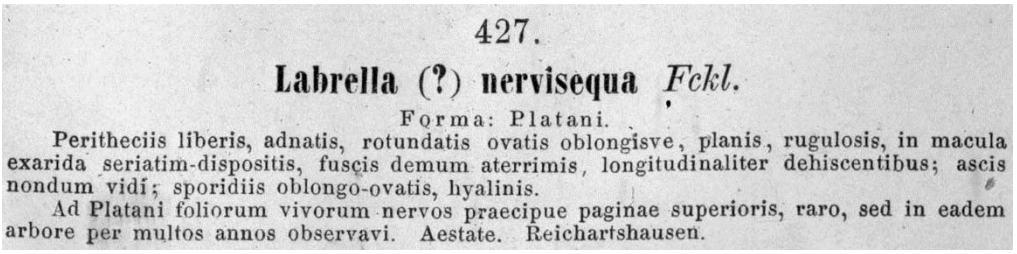

426.

Stigmatea (Coleroa) Petasitidis *Fckl.*

Peritheciis superficialibus, gregariis, magnitudine eorum St. Chaetomii, vertice pauci-setulosis, ovatis, aterrimis, in maculis purpureis; ascis curvato-clavatis, 8 sporis; sporidiis ovato-clavatis, medio paulo constrictis, didymis, hyalinis.
Ad P. vulgaris foliorum vivorum paginam superiorem, raro. Ad rivulos sylvaticos sylvae Hostrichensis. Autumno.

Fig. 58

Labrella nervisequa Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 427, 1863 [Hedwigia **3**(10): 156, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 427 (fig. 59).

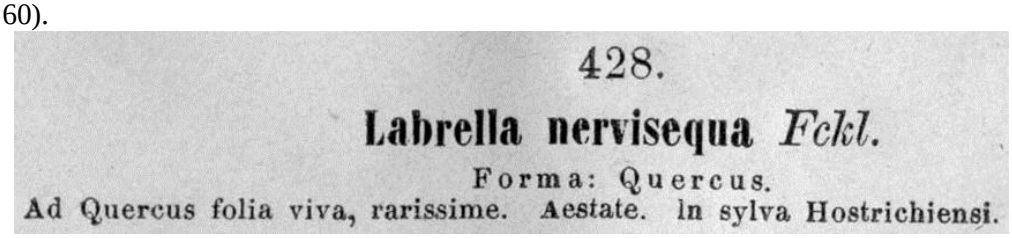

427.

Labrella (?) nervisequa *Fckl.*

Forma: Platani.
Peritheciis liberis, adnatis, rotundatis ovatis oblongisve, planis, rugulosis, in macula exarida seriatim-dispositis, fuscis demum aterrimis, longitudinaliter dehiscentibus; ascis nondum vidi; sporidiis oblongo-ovatis, hyalinis.
Ad Platani foliorum vivorum nervos praecipue paginae superioris, raro, sed in eadem arbore per multos annos observavi. Aestate. Reichartshausen.

Fig. 59

Labrella nervisequa f. *quercus* Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 428, 1863 [Hedwigia **3**(10): 156, 1864].
Notes: This is a forma (substrate form) validly published on the label of Fungi Rhen. Exs. 428 (fig. 60).


428.

Labrella nervisequa *Fckl.*

Forma: Quercus.
Ad Quercus folia viva, rarissime. Aestate. In sylva Hostrichiensi.

Fig. 60

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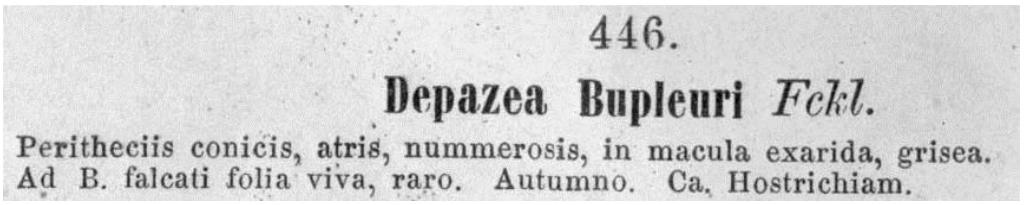
Depazea bupleuri Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 446, 1863 [Hedwigia **3**(10): 156, 1864].

≡ ***Asteromella bupleuri*** (Fuckel) Aa, in van der Aa & Vanev, *A Revision of the Species Described in Phyllosticta*: 116, 2002.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 446 (fig. 61).


446.

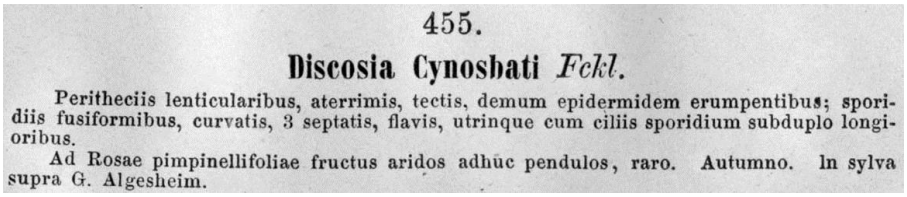
Depazea Bupleuri *Fckl.*

Peritheciis conicis, atris, nummerosis, in macula exarida, grisea. Ad B. falcati folia viva, raro. Autumno. Ca. Hostrichiam.

Fig. 61

Discosia cynosbati Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 455, 1863 [Hedwigia **3**(10): 156, 1864].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 455 (fig. 62).


455.

Discosia Cynosbati *Fckl.*

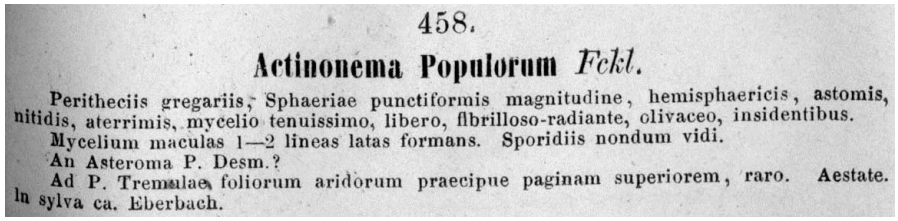
Peritheciis lenticularibus, aterrimis, tectis, demum epidermidem erumpentibus; sporidiis fusiformibus, curvatis, 3 septatis, flavis, utrinque cum ciliis sporidium subduplo longioribus.

Ad Rosae pimpinellifoliae fructus aridos adhuc pendulos, raro. Autumno. In sylva supra G. Algesheim.

Fig. 62

Actinonema populorum Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 458, 1863 [Hedwigia **3**(10): 156, 1864].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 458 (fig. 63).


458.

Actinonema Populorum *Fckl.*

Peritheciis gregariis, Sphaeriae punctiformis magnitudine, hemisphaericis, astomis, nitidis, aterrimis, mycelio tenuissimo, libero, fibrilloso-radiante, olivaceo, insidentibus.

Mycelium maculas 1—2 lineas latas formans. Sporidiis nondum vidi.

An Asteroma P. Desm.?

Ad P. Tremulae foliorum aridorum praecipue paginam superiorem, raro. Aestate. In sylva ca. Eberbach.

Fig. 63

Ascospora mali Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 469 1863 [Hedwigia **3**(10): 156, 1864].

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 469 (fig. 64).

469.

Ascospora Mali *Fckl.*

Peritheciis sparsis, minutissimis, conicis, perforatis, atris, epidermidem radiatim-turgentibus et dein erumpentibus; sporidiis ovatis, senis in ascis oblongis, stipatis. Cirrhis candidis, fasciculatis.

Ad Pyri Mali folia arida, raro. Vere. Ca. Hostrichiam.

Fig. 64

Ascochyta armoraciae Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 486, 1863 [Hedwigia **3**(10): 157, 1864].

≡ *Sphaerella armoraciae* (Fuckel.) Oudem., Fungi Neerl. Exs. no. 170, 1877.

Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 486 (fig. 65). *Ascochyta armoraciae* Cooke, 1865, nom. illeg., is a younger homony (Art. 53.1) of Fuckel's name.

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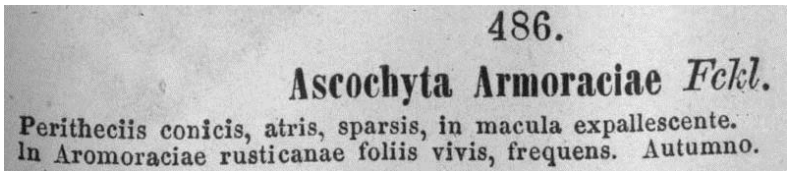
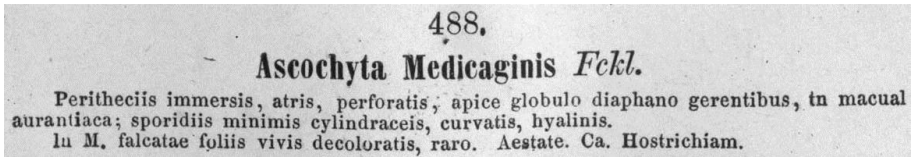

486.

Ascochyta Armoraciae *Fckl.*

Peritheciis conicis, atris, sparsis, in macula expallescente.
In Aromoraciae rusticanae foliis vivis, frequens. Autumno.

Fig. 65

Ascochyta medicaginis Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 488, 1863 [Hedwigia **3**(10): 157, 1864].
≡ *Phyllosticta medicaginis* (Fuckel) Sacc., Syll. Fung. **3**: 42, 1884.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 488 (fig. 66).

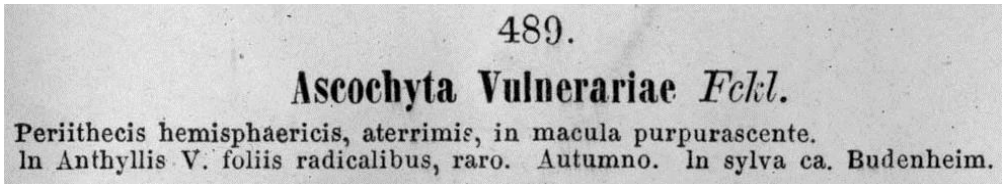

488.

Ascochyta Medicaginis *Fckl.*

Peritheciis immersis, atris, perforatis, apice globulo diaphano gerentibus, in macula aurantiaca; sporidiis minimis cylindraceis, curvatis, hyalinis.
In M. falcatae foliis vivis decoloratis, raro. Aestate. Ca. Hostrichiam.

Fig. 66

Ascochyta vulnerariae Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 489, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 489 (fig. 67).

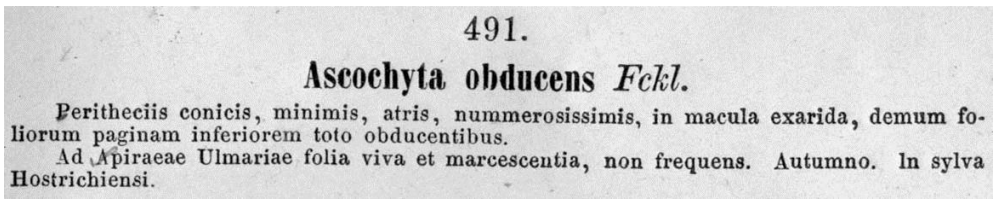

489.

Ascochyta Vulnerariae *Fckl.*

Periithecis hemisphaericis, aterrimis, in macula purpurascente.
In Anthyllis V. foliis radicalibus, raro. Autumno. In sylva ca. Budenheim.

Fig. 67

Ascochyta obducens Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 491, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 491 (fig. 68).

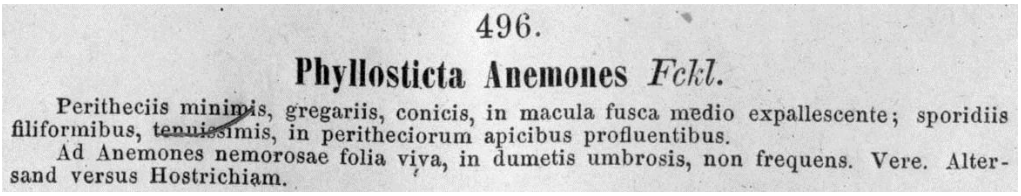

491.

Ascochyta obducens *Fckl.*

Peritheciis conicis, minimis, atris, nummerosissimis, in macula exarida, demum foliorum paginam inferiorem toto obducentibus.
Ad Apiraeae Ulmariae folia viva et marcescentia, non frequens. Autumno. In sylva Hostrichiensi.

Fig. 68

Phyllosticta anemones Fuckel, Fungi Rhen. Exs., Fasc. **5**: no. 496, 1863 [Hedwigia **3**(10): 157, 1864].
≡ *Septoria anemones* (Fuckel) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 389 (1869-70) 1870.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 496 (fig. 69).


496.

Phyllosticta Anemones *Fckl.*

Peritheciis minimis, gregariis, conicis, in macula fusca medio expallescente; sporidiis filiformibus, tenuissimis, in peritheciorum apicibus profluentibus.
Ad Anemones nemorosae folia viva, in dumetis umbrosis, non frequens. Vere. Altersand versus Hostrichiam.

Fig. 69

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Fasc. 6

Septoria nigerrima Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 501, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 501 (fig. 70).

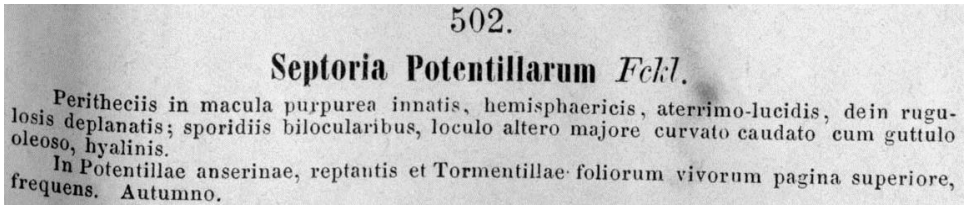
501.

Septoria nigerrima *Fckl.*

Peritheciis immersis, macula albida insidentibus, cirrhos longos, aterrimos exterminantibus; sporidiis filiformibus, curvatis, septatis, utrinque obtusis, hyalinis.
In Pyri communis foliorum vivorum pagina inferiore, raro. Autumno Ca. Hostrichiam.
Obs. In eadem macula serius Depazea pyrina, sed in pagina superiore elaboratur.

Fig. 70

Septoria potentillarum Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 502, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 502 (fig. 71).

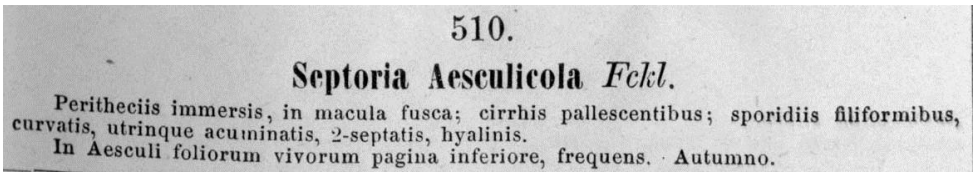

502.

Septoria Potentillarum *Fckl.*

Peritheciis in macula purpurea innatis, hemisphaericis, aterrimo-lucidis, dein rugulosis deplanatis; sporidiis bilocularibus, loculo altero majore curvato caudato cum guttulo oleoso, hyalinis.
In Potentillae anserinae, reptantis et Tormentillae foliorum vivorum pagina superiore, frequens. Autumno.

Fig. 71

Septoria aesculicola Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 510, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 510 (fig. 72).

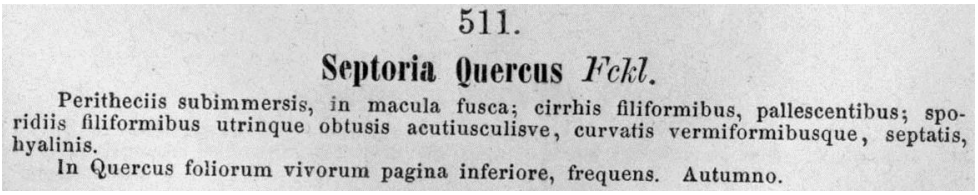

510.

Septoria Aesculicola *Fckl.*

Peritheciis immersis, in macula fusca; cirrhis pallescentibus; sporidiis filiformibus, curvatis, utrinque acuminatis, 2-septatis, hyalinis.
In Aesculi foliorum vivorum pagina inferiore, frequens. Autumno.

Fig. 72

Septoria quercus Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 511, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 511 (fig. 73).


511.

Septoria Quercus *Fckl.*

Peritheciis subimmersis, in macula fusca; cirrhis filiformibus, pallescentibus; sporidiis filiformibus utrinque obtusis acutiusculisve, curvatis vermiformibusque, septatis, hyalinis.
In Quercus foliorum vivorum pagina inferiore, frequens. Autumno.

Fig. 73

Septoria pini Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 512, 1863 [Hedwigia **3**(10): 157, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 512 (fig. 74).

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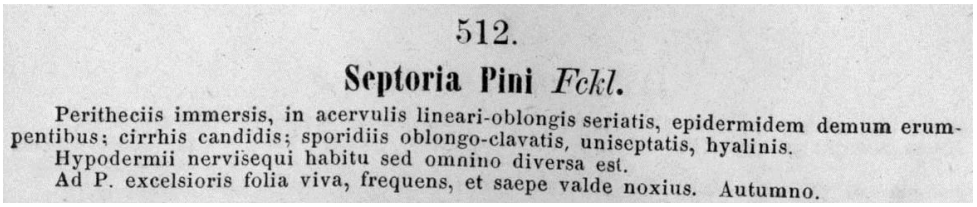
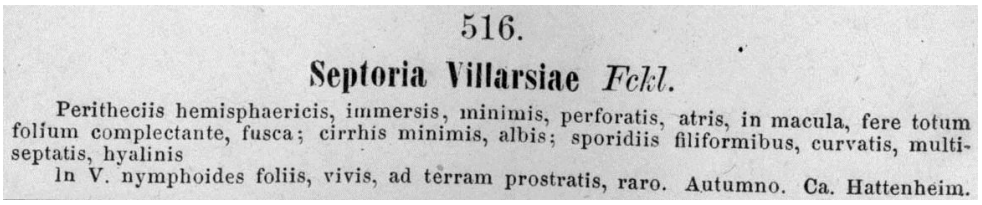

512.

Septoria Pini *Fckl.*

Peritheciis immersis, in acervulis lineari-oblongis seriatis, epidermidem demum erumpentibus; cirrhis candidis; sporidiis oblongo-clavatis, uniseptatis, hyalinis.
Hypodermii nervisequi habitu sed omnino diversa est.
Ad P. excelsioris folia viva, frequens, et saepe valde noxius. Autumno.

Fig. 74

Septoria villarsiae Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 516, 1863 [Hedwigia **3**(10): 157, 1864], nom. illeg. (Art. 53.1), non Desm., 1842. (fig. 75).


516.

Septoria Villarsiae *Fckl.*

Peritheciis hemisphaericis, immersis, minimis, perforatis, atris, in macula, fere totum folium complectante, fusca; cirrhis minimis, albis; sporidiis filiformibus, curvatis, multiseptatis, hyalinis
In V. nymphoides foliis, vivis, ad terram prostratis, raro. Autumno. Ca. Hattenheim.

Fig. 75

Septoria scillae Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 517, 1863 [Hedwigia **3**(10): 157, 1864], nom. illeg. (Art. 53.1), non Westend., 1852.
Notes: This name was published with a description on the label of Fungi Rhen. Exs. 517 (fig. 76), but it is invalid (Art. 53.1).

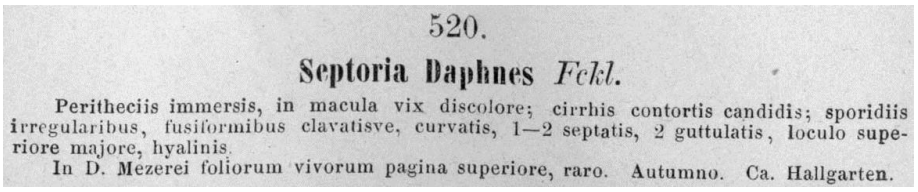
517.

Septoria Scillae *Fckl.*

Peritheciis subimmersis, planis, perforatis, atris, in macula exarida; cyrrhis contortis, albis; sporidiis filiformibus, longissimis, curvatis, septatis, hyalinis.
In Sc. bifoliae foliorum vivorum apicibus, raro. Autumno. Altersand prope Hostrichiam.

Fig. 76

Septoria daphnes Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 520, 1863 [Hedwigia **3**(10): 158, 1864], nom. illeg. (Art. 53.1), non Roberge ex Desm., 1843. (fig. 77).

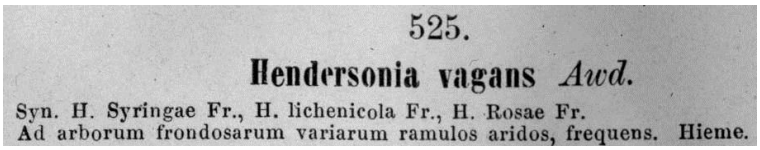

520.

Septoria Daphnes *Fckl.*

Peritheciis immersis, in macula vix discolore; cirrhis contortis candidis; sporidiis irregularibus, fusiformibus clavatisve, curvatis, 1—2 septatis, 2 guttulatis, loculo superiore majore, hyalinis.
In D. Mezerei foliorum vivorum pagina superiore, raro. Autumno. Ca. Hallgarten.

Fig. 77

Hendersonia vagans Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 525, 1863, nom. illeg. (Art. 52.1).
Notes: *Hendersonia syringae* Fr. and *H. lichenicola* (Corda) Lév. were cited as synonyms (fig. 78). *Hendersonia vagans* Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 392 (1869-70) 1870, is also illegitimate (Art. 6.4).


525.

Hendersonia vagans *Awd.*

Syn. H. Syringae Fr., H. lichenicola Fr., H. Rosae Fr.
Ad arborum frondosarum variarum ramulos aridos, frequens. Hieme.

Fig. 78

Hendersonia foliicola Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 526, 1863 [Hedwigia **3**(10): 158, 1864].

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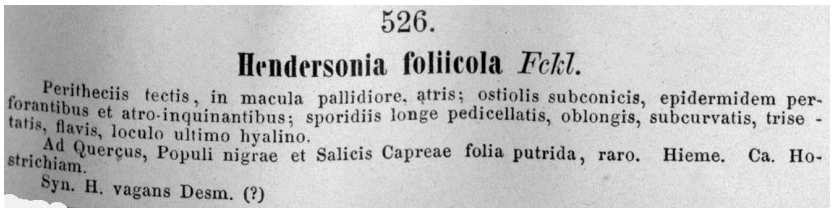
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 526 (fig. 79).


526.

Hendersonia foliicola *Fckl.*

Peritheciis tectis, in macula pallidiore, atris; ostiolis subconicis, epidermidem perforantibus et atro-inquinantibus; sporidiis longe pedicellatis, oblongis, subcurvatis, trise - tatis, flavis, loculo ultimo hyalino.
Ad Quercus, Populi nigrae et Salicis Capreae folia putrida, raro. Hieme. Ca. Hostrichiam.
Syn. H. vagans Desm. (?)

Fig. 79

Diplodia coryli Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 533, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 533 (fig. 80).

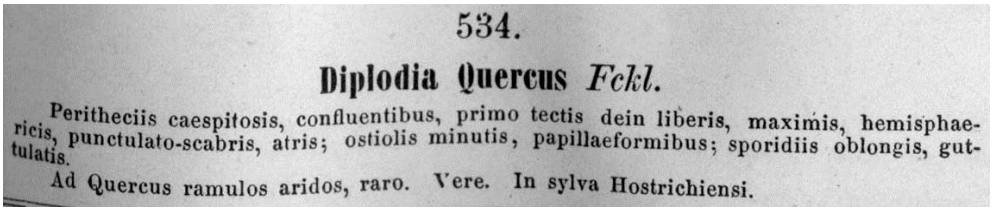
533.

Diplodia Coryli *Fckl.*

Peritheciis sparsis, magnis, globosis, erumpentibus, atris; ostiolis globoso-papillaeformibus, minutissime perforatis; sporidiis expulsis epidermidem atro-inquinantibus, oblongis, inaequalibus.
Ad Coryli ramulos aridos, raro. Vere. Ca. Hostrichiam.

Fig. 80

Diplodia quercus Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 534, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 534 (fig. 81).

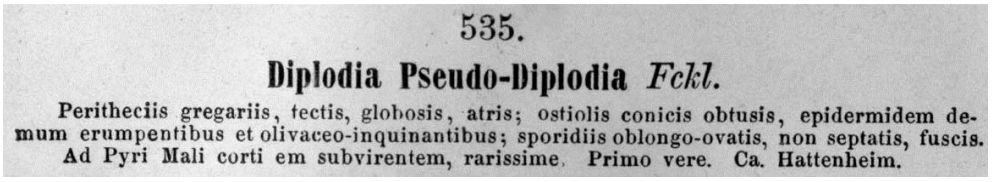

534.

Diplodia Quercus *Fckl.*

Peritheciis caespitosis, confluentibus, primo tectis dein liberis, maximis, hemisphaericis, punctulato-scabris, atris; ostiolis minutis, papillaeformibus; sporidiis oblongis, guttulatis.
Ad Quercus ramulos aridos, raro. Vere. In sylva Hostrichiensi.

Fig. 81

Diplodia pseudodiplodia Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 535, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 535 (fig. 82).

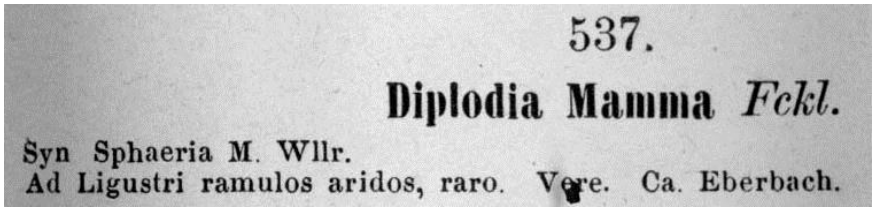

535.

Diplodia Pseudo-Diplodia *Fckl.*

Peritheciis gregariis, tectis, globosis, atris; ostiolis conicis obtusis, epidermidem demum erumpentibus et olivaceo-inquinantibus; sporidiis oblongo-ovatis, non septatis, fuscis.
Ad Pyri Mali corti em subvirentem, rarissime. Primo vere. Ca. Hattenheim.

Fig. 82

Diplodia mamma (Wallr.) Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 537, 1863.
≡ *Sphaeria mamma* Wallr., Fl. crypt. Germ. **2**: 784, 1833.
Notes: This is a valid combination made on the label of Fungi Rhen. Exs. 537 (fig. 83).


537.

Diplodia Mamma *Fckl.*

Syn Sphaeria M. Wllr.
Ad Ligustri ramulos aridos, raro. Vere. Ca. Eberbach.

Fig. 83

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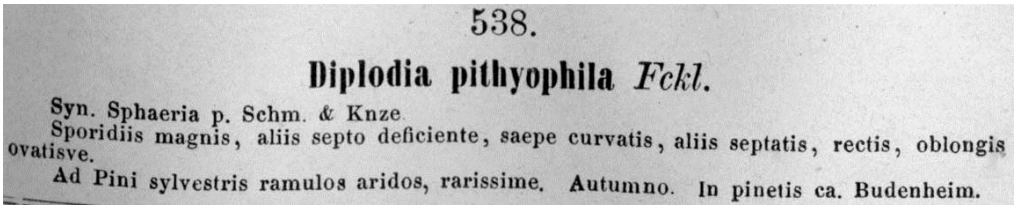
Diplodia pityophila (J.C. Schmidt & Kunze) Fuckel (as "*pithyophila*"), Fungi Rhen. Exs., Fasc. **6**: no. 538, 1863.
≡ *Sphaeria pityophila* J.C. Schmidt & Kunze, Deutschl. Schwämme, Sechste Lieferung: 3, 1817.
≡ ***Curreya pityophila*** (J.C. Schmidt & Kunze) Arx & E. Müll., Stud. Mycol. **9**: 80, 1975.
Notes: This is a valid combination made on the label of Fungi Rhen. Exs. 538 (fig. 84).

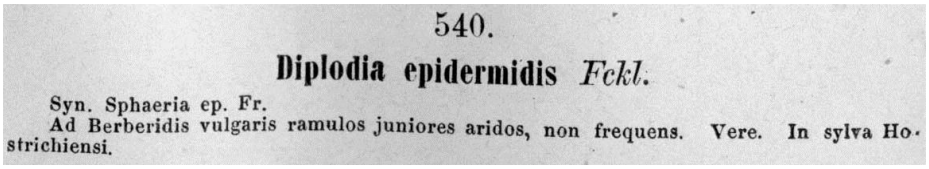

538.

Diplodia pithyophila *Fckl.*

Syn. Sphaeria p. Schm. & Knze.
Sporidiis magnis, aliis septo deficiente, saepe curvatis, aliis septatis, rectis, oblongis ovatisve.
Ad Pini sylvestris ramulos aridos, rarissime. Autumno. In pinetis ca. Budenheim.

Fig. 84

Diplodia epidermidis (Fr.) Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 540, 1863.
≡ *Sphaeria epidermidis* Fr., Syst. mycol. **2**(2): 499, 1823.
≡ ***Didymosphaeria epidermidis*** (Fr.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 141 (1869-70) 1870.
Notes: This is a valid combination made on the label of Fungi Rhen. Exs. 540 (fig. 85).


540.

Diplodia epidermidis *Fckl.*

Syn. Sphaeria ep. Fr.
Ad Berberidis vulgaris ramulos juniores aridos, non frequens. Vere. In sylva Hostrichiensi.

Fig. 85

Diplodia ulmi Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 542, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 542 (fig. 86).

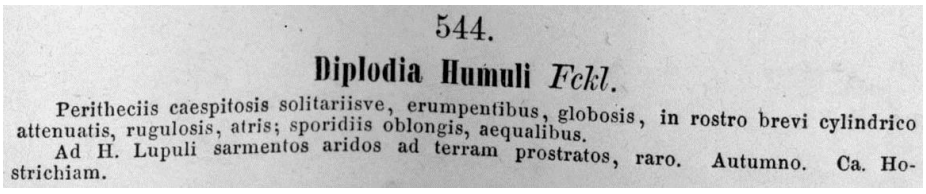
542.

Diplodia Ulmi *Fckl.*

Peritheciis medio magnitudine, gregariis, primo tectis dein liberis, subglobosis, atris; ostiolis minutissimis; sporidiis oblongis.
Ad Ulmi campestris ramos aridos, frequens. Autumno.

Fig. 86

Diplodia humuli Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 544, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 544 (fig. 87).


544.

Diplodia Humuli *Fckl.*

Peritheciis caespitosis solitariisve, erumpentibus, globosis, in rostro brevi cylindrico attenuatis, rugulosis, atris; sporidiis oblongis, aequalibus.
Ad H. Lupuli sarmentos aridos ad terram prostratos, raro. Autumno. Ca. Hostrichiam.

Fig. 87

Diplodia caulicola Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 545, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 545 (fig. 88).

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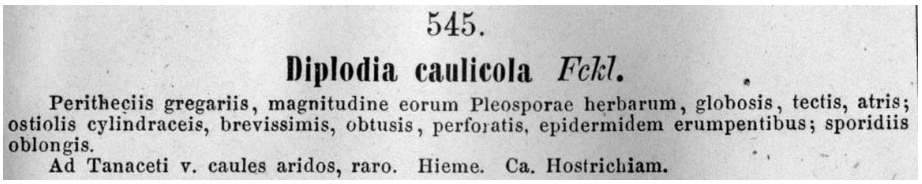


545.

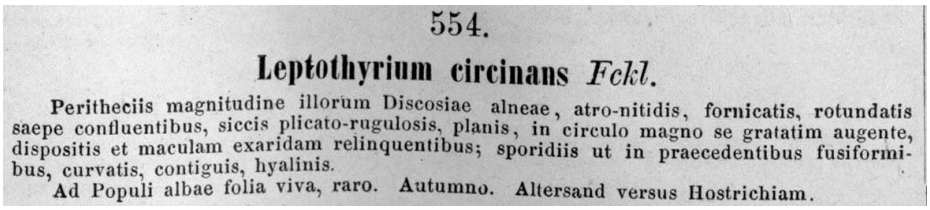
Diplodia caulicola *Fckl.*

Peritheciis gregariis, magnitudine eorum Pleosporae herbarum, globosis, tectis, atris; ostiolis cylindraceis, brevissimis, obtusis, perforatis, epidermidem erumpentibus; sporidiis oblongis.

Ad Tanaceti v. caules aridos, raro. Hieme. Ca. Hostrichiam.

Fig. 88

Leptothyrium circinans Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 554, 1863 [Hedwigia **3**(10): 158, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 554 (fig. 89).



554.

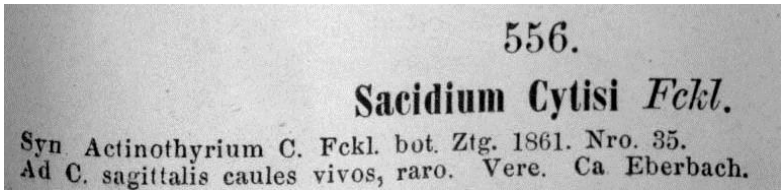
Leptothyrium circinans *Fckl.*

Peritheciis magnitudine illorum Discosiae alneae, atro-nitidis, fornicatis, rotundatis saepe confluentibus, siccis plicato-rugulosis, planis, in circulo magno se gratatim augente, dispositis et maculam exaridam relinquentibus; sporidiis ut in praecedentibus fusiformibus, curvatis, contiguis, hyalinis.

Ad Populi albae folia viva, raro. Autumno. Altersand versus Hostrichiam.

Fig. 89

Sacidium cytisi (Fuckel) Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 556, 1863 [Hedwigia **3**(10): 158, 1864].
≡ Actinothyrium *cytisi* Fuckel, Bot. Zeitung (Berlin) **19**(35): 249, 1861.
Notes: This is a valid combination made on the label of Fungi Rhen. Exs. 556 (fig. 90).



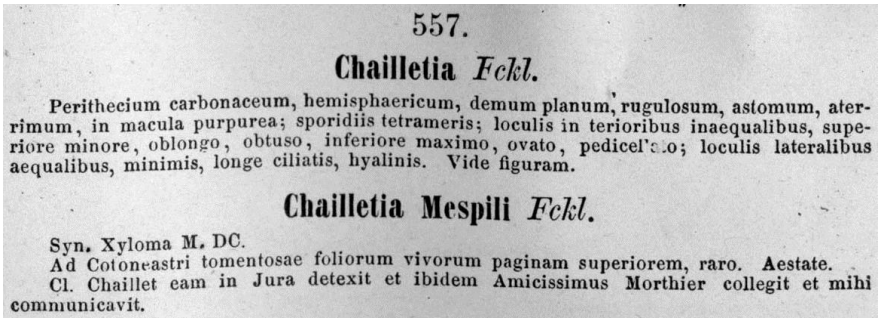
556.

Sacidium Cytisi *Fckl.*

Syn Actinothyrium C. Fckl. bot. Ztg. 1861. Nro. 35.
Ad C. sagittalis caules vivos, raro. Vere. Ca Eberbach.

Fig. 90

Chailletia Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 557, 1863 [Hedwigia **3**(10): 158, 1864], nom. illeg. (Art. 53.1), non *Chailletia* DC., 1811 and
Chailletia mespili (DC.) Fungi Rhen. Exs., Fasc. **6**: no. 557, 1863 [Hedwigia **3**(10): 159, 1864].
≡ *Xyloma mespili* DC., Fl. franç., Ed. 3, **5/6**: 158, 1815.
= ***Diplocarpon mespili*** (Sorauer) B. Sutton, The Coelomycetes (Kew): 150, 1980.
Notes: This is an illegitime genus name with a description on the label of Fungi Rhen. Exs. 557 and a new combination (fig. 91).



557.

Chailletia *Fckl.*

Perithecium carbonaceum, hemisphaericum, demum planum, rugulosum, astomum, aterrimum, in macula purpurea; sporidiis tetrameris; loculis in terioribus inaequalibus, superiore minore, oblongo, obtuso, inferiore maximo, ovato, pedicellato; loculis lateralibus aequalibus, minimis, longe ciliatis, hyalinis. Vide figuram.

Chailletia Mespili *Fckl.*

Syn. Xyloma M. DC.
Ad Cotoneastri tomentosae foliorum vivorum paginam superiorem, raro. Aestate.
Cl. Chaillet eam in Jura detexit et ibidem Amicissimus Morthier collegit et mihi communicavit.

Fig. 91

Sphaeropsis caulincola (Wallr.) Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 566, 1863.
≡ Sphaeria *caulincola* Wallr., Fl. crypt. Germ. **2**: 770, 1833.
Notes: This is a valid combination made on the label of Fungi Rhen. Exs. 566 (fig. 92).

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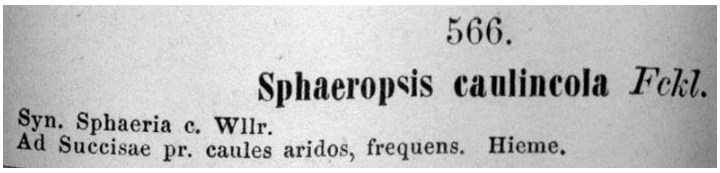
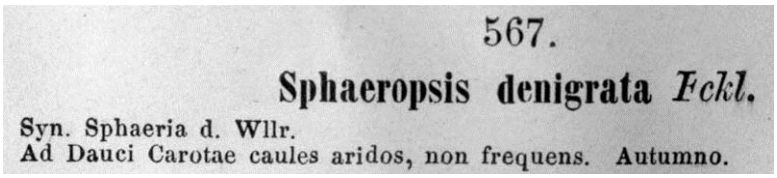

566.

Sphaeropsis caulincola *Fckl.*

Syn. Sphaeria c. Wllr.
Ad Succisae pr. caules aridos, frequens. Hieme.

Fig. 92

Sphaeropsis denigrata Fuckel [as "(Wallr.) Fuckel"], Fungi Rhen. Exs., Fasc. **6**: no. 567, 1863.
≡ *Sphaeria denigrata* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 811, 1833, nom. illeg. (Arts 52.1 and 53.1), non Schweinitz 1832.
= ***Gibberidea heliopsidis*** (Schwein.) Shear, Mycologia 29: 361, 1937.
Notes: This is a new name validly published on the label of Fungi Rhen. Exs. 567 (fig. 93). It was introduced as "new combination" based on Wallroth's (l.c.) illegitimate name *Sphaeria denigrata*, but an illegitimate name cannot be used as a basionym (Art. 6.10). Therefore, this name represents a name only ascribable to Fuckel. Although based on a superfluous name (Art. 52.1), *Sphaeropsis denigrata* is not illegitimate according to Art. 58.1 since Fuckel (l.c.) did not cite *Sphaeria heliopsidis* Schwein. (≡ *Dothidea heliopsidis* (Schwein.) Fr.), as done by Wallroth (l.c.), i.e., this name and its type were excluded (Art. 58.1, and Note 1, Ex. 6).

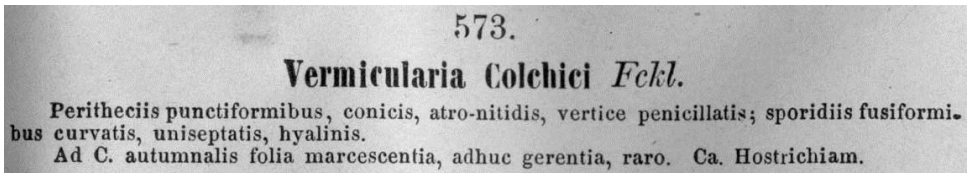

567.

Sphaeropsis denigrata *Fckl.*

Syn. Sphaeria d. Wllr.
Ad Dauci Carotae caules aridos, non frequens. Autumno.

Fig. 93

Vermicularia colchici Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 573, 1863 [Hedwigia **3**(10): 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 573 (fig. 94).

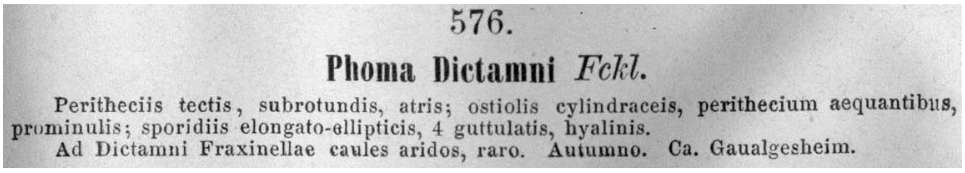

573.

Vermicularia Colchici *Fckl.*

Peritheciis punctiformibus, conicis, atro-nitidis, vertice penicillatis; sporidiis fusiformibus curvatis, uniseptatis, hyalinis.
Ad C. autumnalis folia marcescentia, adhuc gerentia, raro. Ca. Hostrichiam.

Fig. 94

Phoma dictamni Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 576, 1863 [Hedwigia **3**(10): 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 576 (fig. 95).


576.

Phoma Dictamni *Fckl.*

Peritheciis tectis, subrotundis, atris; ostiolis cylindraceis, perithecium aequantibus, prominulis; sporidiis elongato-ellipticis, 4 guttulatis, hyalinis.
Ad Dictamni Fraxinellae caules aridos, raro. Autumno. Ca. Gaualgesheim.

Fig. 95

Phoma sparganii Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 581 [as '158'], 1863 [Hedwigia **3**(10): 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 581 (fig. 96).

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158.

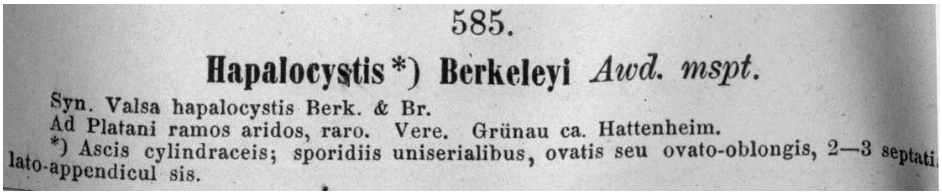
Phoma Sparganii *Fckl.*

Peritheciis sparsis, primo tectis dein subliberis, globosis, medio magnitudine, aterrimis, laevibus; ostiolis minutis, papillaeformibus; sporidiis magnis, fusiformibus, contiguis, quadrioculatis, hyalinis.

Ad Sp. ramosi caules foliaque arida, valde humida, raro. Vere. Ca. Budenheim.

Fig. 96

Hapalocystis Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 585, 1863 and
Hapalocystis berkeleyi Auersw. in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 585, 1863.
≡ *Sphaeria hapalocystis* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 2, **9**: 317, 1852.
≡ *Valsa hapalocystis* (Berk. & Broome) Cooke, Handbook Brit. Fungi **2**: 839, 1879.
Notes: This is a genus name validly published on the label of Fungi Rhen. Exs. 585 and a valid new name (fig. 97).

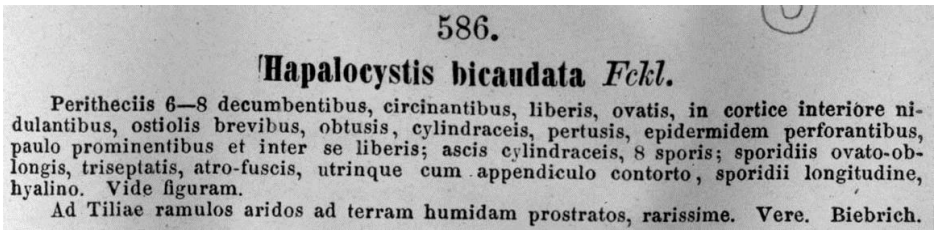


585.

Hapalocystis *) Berkeleyi *Awd. mspt.*

Syn. Valsa hapalocystis Berk. & Br.
Ad Platani ramos aridos, raro. Vere. Grünau ca. Hattenheim.
*) Ascis cylindraceis; sporidiis uniserialibus, ovatis seu ovato-oblongis, 2—3 septati lato-appendicul sis.

Fig. 97



586.

Hapalocystis bicaudata *Fckl.*

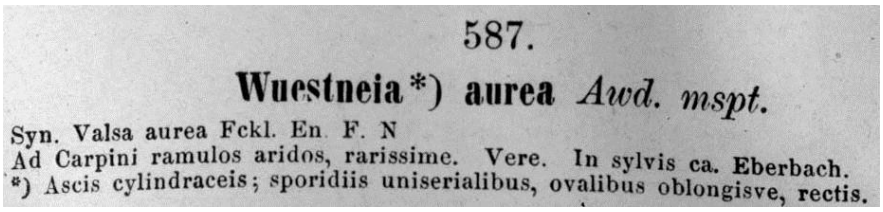
Peritheciis 6—8 decumbentibus, circinantibus, liberis, ovatis, in cortice interiore nidulantibus, ostiolis brevibus, obtusis, cylindraceis, pertusis, epidermidem perforantibus, paulo prominentibus et inter se liberis; ascis cylindraceis, 8 sporis; sporidiis ovato-oblongis, triseptatis, atro-fuscis, utrinque cum appendiculo contorto, sporidii longitudine, hyalino. Vide figuram.

Ad Tiliae ramulos aridos ad terram humidam prostratos, rarissime. Vere. Biebrich.

Fig. 98

Hapalocystis bicaudata Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 586, 1863 [Hedwigia **3**(10): 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 586 (fig. 98).

Wuestneia Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 587, 1863 [Hedwigia **3**(10): 159, 1864] and
Wuestneia aurea (Fuckel) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 587, 1863.
≡ *Valsa aurea* Fuckel, Jahrb. Nassauischen Vereins Naturk. **15**: 53, 1860.
Notes: This is a genus name validly published on the label of Fungi Rhen. Exs. 587 and a valid new combination (fig. 99).



587.

Wuestneia *) aurea *Awd. mspt.*

Syn. Valsa aurea Fckl. En. F. N
Ad Carpini ramulos aridos, rarissime. Vere. In sylvis ca. Eberbach.
*) Ascis cylindraceis; sporidiis uniserialibus, ovalibus oblongisve, rectis.

Fig. 99

Wuestneia fibrosa (Pers.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 589, 1863.
≡ *Sphaeria fibrosa* Pers., Syn. meth. fung. **1**: 40, 1801, nom. sanct. [Fr., Syst. mycol. **2**(2): 384, 1823].
≡ ***Diaporthe fibrosa*** (Pers.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 204, 1870.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 589 (fig. 100).

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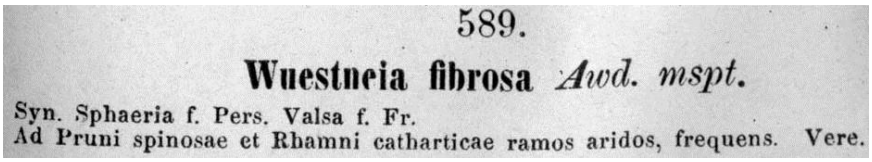
589.
Wuestneia fibrosa *Awd. mspt.*
Syn. Sphaeria f. Pers. Valsa f. Fr.
Ad Pruni spinosae et Rhamni catharticae ramos aridos, frequens. Vere.

Fig. 100

Wuestneia stilbostoma (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 590, 1863.
≡ *Sphaeria stilbostoma* Fr., Kongl. Vetensk. Akad. Handl. **38**: 102, 1817, nom. sanct. [Fr., Syst. mycol. **2**(2): 384, 1823].
≡ ***Melanconis stilbostoma*** (Fr.) Tul. & C. Tul., Selecta fung. Carpol. 2: 115, 1863.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 590 (fig. 101).

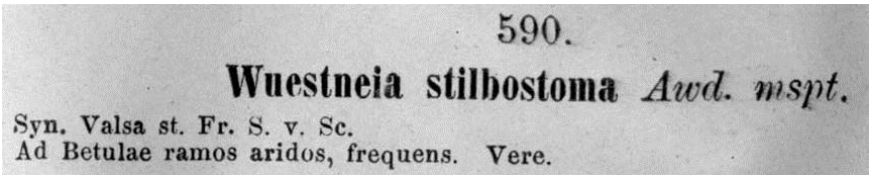
590.
Wuestneia stilbostoma *Awd. mspt.*
Syn. Valsa st. Fr. S. v. Sc.
Ad Betulae ramos aridos, frequens. Vere.

Fig. 101

Wuestneia sphinctrina (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 591, 1863.
≡ *Sphaeria sphinctrina* Fr., in Kunze & Schmidt, Mykol. Hefte **2**: 48, 1823.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 591 (fig. 102).

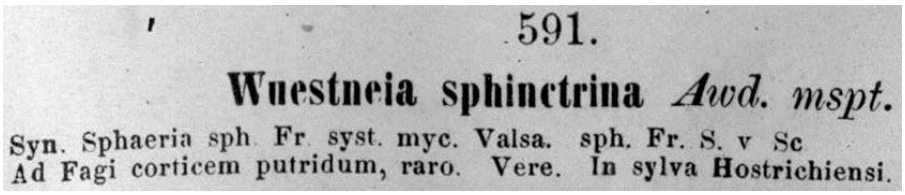
591.
Wuestneia sphinctrina *Awd. mspt.*
Syn. Sphaeria sph. Fr. syst. myc. Valsa. sph. Fr. S. v Sc
Ad Fagi corticem putridum, raro. Vere. In sylva Hostrichiensi.

Fig. 102

Wuestneia tessera (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 592, 1863.
≡ *Sphaeria tessera* Fr., Syst. mycol. **2**(2): 405, 1823, nom. sanct. [Fr., l.c.].
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 592 (fig. 103).

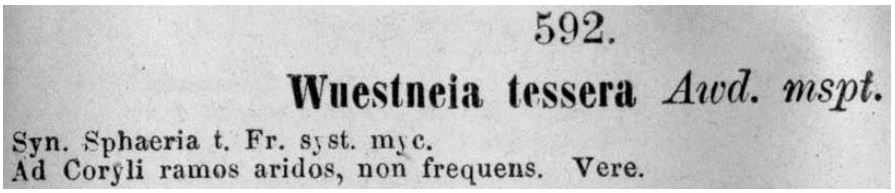
592.
Wuestneia tessera *Awd. mspt.*
Syn. Sphaeria t. Fr. syst. myc.
Ad Coryli ramos aridos, non frequens. Vere.

Fig. 103

Wuestneia suffusa (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 593, 1863.
≡ *Sphaeria suffusa* Fr., Kongl. Vetensk. Akad. Handl. **38**: 95, 1817, nom. sanct. [Fr., Syst. mycol. **2**(2): 399, 1823].
≡ ***Cryptosporella suffusa*** (Fr.) L.C. Mejía & Castl., Mycol. Res. 112 (1): 31, 2007.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 593 (fig. 104).

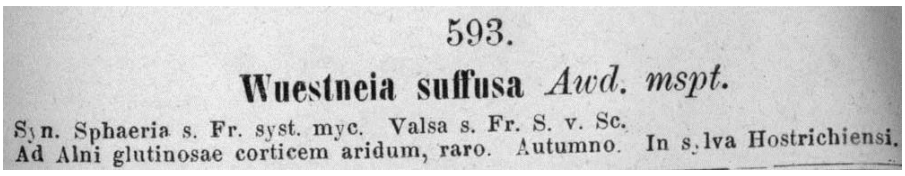
593.
Wuestneia suffusa *Awd. mspt.*
Syn. Sphaeria s. Fr. syst. myc. Valsa s. Fr. S. v. Sc.
Ad Alni glutinosae corticem aridum, raro. Autumno. In sylva Hostrichiensi.

Fig. 104

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Wuestneia monadelpha (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 594, 1863 [Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 734, 1865].
≡ *Sphaeria monadelpha* Fr., Syst. mycol. **2**(2): 382, 1823, nom. sanct. [Fr., l.c.].
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 594 (fig. 105).

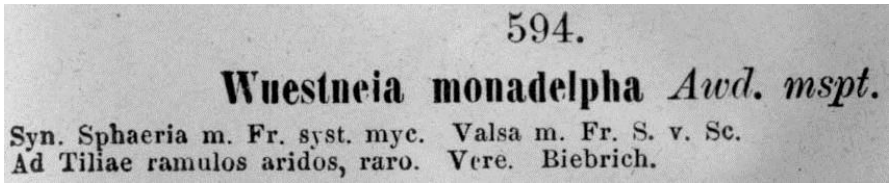
594.
Wuestneia monadelpha *Awd. mspt.*
Syn. Sphaeria m. Fr. syst. myc. Valsa m. Fr. S. v. Sc.
Ad Tiliae ramulos aridos, raro. Vere. Biebrich.

Fig. 105

Valsa strumella (Fr.) Auersw., in Fuckel, Fungi Rhen. Exs., Fasc. **6**: no. 598, 1863.
≡ *Sphaeria strumella* Fr., Kongl. Vetensk. Akad. Handl. **38**: 101, 1817, nom. sanct. [Fr., Syst. mycol. **2**(2): 365, 1823].
≡ ***Diaporthe strumella*** (Fr.) Fuckel, Jahrb. Nassauischen Vereins Naturk. 23-24: 205, 1870.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 598 (fig. 106).

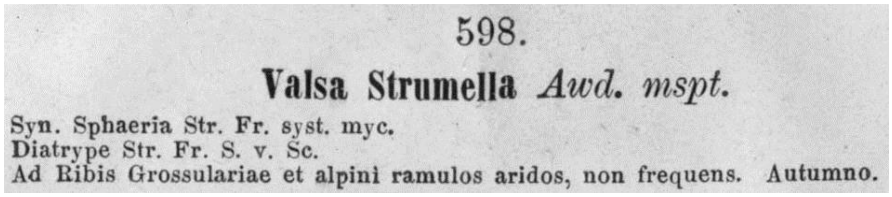
598.
Valsa Strumella *Awd. mspt.*
Syn. Sphaeria Str. Fr. syst. myc.
Diatrype Str. Fr. S. v. Sc.
Ad Ribis Grossulariae et alpini ramulos aridos, non frequens. Autumno.

Fig. 106

Valsa cerviculata (Fr.) Auersw., in Fuckel , Fungi Rhen. Exs., Fasc. **6**: no. 599, 1863.
≡ *Sphaeria cerviculata* Fr., Kongl. Vetensk. Akad. Handl. **38**: 88, 1817, nom. sanct. [Fr., Syst. mycol. **2**(2): 383, 1823].
≡ *Valsa cerviculata* (Fr.) Fr., Summa veg. Scand. **2**: 411, 1849.
Notes: This is a superfluous combination published on the label of Fungi Rhen. Exs. 599 (fig. 107).

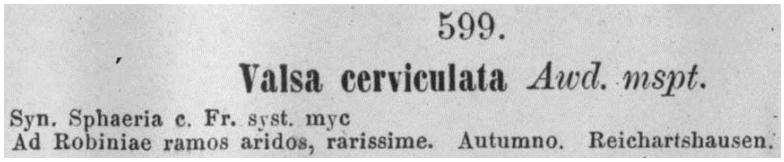
599.
Valsa cerviculata *Awd. mspt.*
Syn. Sphaeria c. Fr. syst. myc
Ad Robiniae ramos aridos, rarissime. Autumno. Reichartshausen.

Fig. 107

Fasc. 7

Valsa vitis (Schwein.) Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 607, 1863 [Jahrb. Nassauischen Vereins Naturk. **23-24**: 199 (1869-70) 1870].
≡ *Sphaeria vitis* Schwein., Schriften Naturf. Ges. Leipzig **1**: 39, 1822.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 607 (fig. 108).

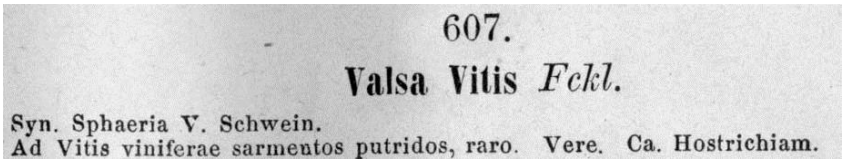
607.
Valsa Vitis *Fckl.*
Syn. Sphaeria V. Schwein.
Ad Vitis viniferae sarmentos putridos, raro. Vere. Ca. Hostrichiam.

Fig. 108

Valsa friesii (Duby) Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 610, 1863 [Jahrb. Nassauischen Vereins Naturk. **23-24**: 198 (1869-70) 1870].

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≡ *Sphaeria friesii* Duby, Bot. Gall., Ed. 2, **2**: 690, 1830.
Notes: This is a combination validly published on the label of Fungi Rhen. Exs. 610 (fig. 109).

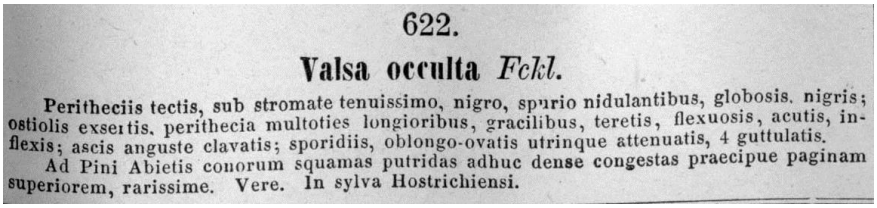
610.

Valsa Friesii *Fckl.*

Syn. Sphaeria Fr. Duby.
Ad Abietis pectinatae ramulos aridos, rarissime. Vere. Ca. Mappen.
NB. Hujus forma spermogonifera certissime Cytispora pinastri Fr., quae in foliis innascitur.

Fig. 109

Valsa occulta Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 622, 1863 [Hedwigia **3**: 159, 1864].
≡ ***Macrodiaporthe occulta*** (Fuckel) Petr., Ann. Mycol. 17 (2-6): 94, 1920.
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 622 (fig. 110).

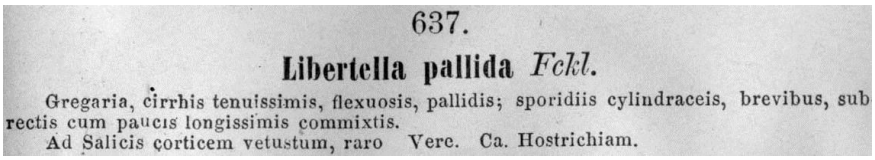

622.

Valsa occulta *Fckl.*

Peritheciis tectis, sub stromate tenuissimo, nigro, spurio nidulantibus, globosis, nigris; ostiolis exsertis, perithecia multoties longioribus, gracilibus, teretis, flexuosis, acutis, inflexis; ascis anguste clavatis; sporidiis, oblongo-ovatis utrinque attenuatis, 4 guttulatis.
Ad Pini Abietis conorum squamas putridas adhuc dense congestas praecipue paginam superiorem, rarissime. Vere. In sylva Hostrichiensi.

Fig. 110

Libertella pallida Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 637, 1863 [Hedwigia **3**: 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 637 (fig. 111).


637.

Libertella pallida *Fckl.*

Gregaria, cirrhis tenuissimis, flexuosis, pallidis; sporidiis cylindraceis, brevibus, subrectis cum paucis longissimis commixtis.
Ad Salicis corticem vetustum, raro Vere. Ca. Hostrichiam.

Fig. 111

Podosporium ribis Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 639, 1863 [Hedwigia **3**: 159, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 639 (fig. 112).

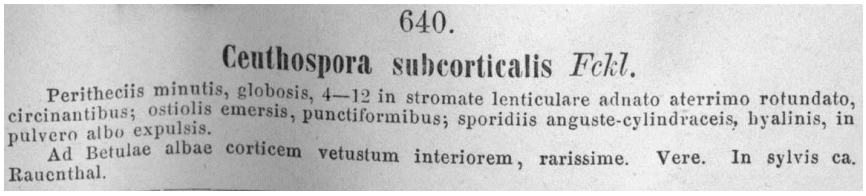
639.

Podosporium *) Ribis *Fckl.*

Peritheciis 1—4, seminis Papaveris magnitudine, globosis, perforatis, atris, semper tectis sed pustulas valde prominulas formantibus, demum evacuatis; sporidiis pedicellatis, dein liberis, ovato-oblongis, saepe curvatis, simplicibus, hyalinis, in massa candida expulsis.
Ad Ribis rubri et alpini ramos aridos, raro. Hieme. Ca. Hostrichiam.
*) In Bonordii sensu.

Fig. 112

Ceuthospora subcorticalis Fuckel, Fungi Rhen. Exs., Fasc. **7**: no. 640, 1863 [Hedwigia **3**: 160, 1864].
Notes: This is a valid species name with a description on the label of Fungi Rhen. Exs. 640 (fig. 113).


640.

Ceuthospora subcorticalis *Fckl.*

Peritheciis minutis, globosis, 4—12 in stromate lenticulare adnato aterrimo rotundato, circinantibus; ostiolis emersis, punctiformibus; sporidiis anguste-cylindraceis, hyalinis, in pulvero albo expulsis.
Ad Betulae albae corticem vetustum interiorem, rarissime. Vere. In sylvis ca. Rauenthal.

Fig. 113

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Digitale Literatur/Digital Literature

Zeitschrift/Journal: Schlechtendalia

Jahr/Year: 2019

Band/Volume: 36

Autor(en)/Author(s): Braun Uwe, Bensch Konstanze

Artikel/Article: Annotated list of taxonomic novelties published in “Fungi Rhenani Exsiccati” Fasc. 1 to 7, issued by K. W. G. L. Fuckel in 1863 103-131