

# **Annotated list of taxonomic novelties published in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10)**

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**Abstract:** Braun, U. & Bensch, K. 2019: Annotated list of taxonomic novelties published in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10). *Schlechtendalia* **36**: 1–60.

New taxa and new combinations published by G. L. Rabenhorst in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum, Editio Nova, Series Secunda” Cent. 1 to 26 in the second half of the 19<sup>th</sup> century are listed and annotated. References, citations and the synonymy are corrected when necessary. The nomenclature of some taxa is discussed in more detail. The first part of this treatment comprises taxonomic novelties in Cent. 1 to 10. *Uredo tussilaginis* (= *Coleosporium tussilaginis*) is designated as lectotype species for the genus *Erannium*. This genus is a heterotypic synonym of *Coleosporium*.

**Zusammenfassung:** Braun, U. & Bensch, K. 2019: Kommentierte Liste taxonomischer Neuheiten publiziert in „Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda“ Cent. 1 bis 26, herausgegeben von G. L. Rabenhorst zwischen 1859 und 1881 (erster Teil, Cent. 1 bis 10). *Schlechtendalia* **36**: 1–60.

Neue Taxa und Kombinationen publiziert von G. L. Rabenhorst in “Klotzschii Herbarium Vivum Mycologicum, Editio Nova” Cent. 1 bis 26 in der zweiten Hälfte des 19. Jahrhunderts werden aufgelistet und annotiert. Referenzangaben, Zitate und die Synonymie werden korrigiert falls notwendig. Die Nomenklatur einiger Taxa wird detaillierter besprochen. Der erste Teil dieser Bearbeitung umfasst Cent. 1 bis 10. *Uredo tussilaginis* (= *Coleosporium tussilaginis*) wird als Lectotypusart der Gattung *Erannium* ausgewählt. Diese Gattung ist ein heterotypisches Synonym von *Coleosporium*.

**Key words:** Fungi, nomenclature, exsiccata.

Published online 5 Feb. 2019

## **Introduction**

In 1832, Johann F. Klotzsch initiated the exsiccata “Herbarium Vivum Mycologicum” and issued Cent. 1 and 2. Gottlob L. Rabenhorst continued this exsiccata since 1842 and issued Cent. 3 to 20. An index was published by Rabenhorst (1851). Taxonomic novelties published in this exsiccata have been listed and annotated in Braun (2018a). Rabenhorst continued this exsiccata under the name “Klotzschii Herbarium Vivum Mycologicum, Editio Nova” and issued eight centuria between 1855 and 1858 [Series Prima]. Taxonomic novelties published in Editio Nova, Cent. 1–8 are included and annotated in Braun (2018b). Thereafter Rabenhorst continued his exsiccata with “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” and issued Cent. 1–26 between 1859 and 1881, followed by Cent. 27–36 (1881–1886) published by G. Winter. Otto Pazschke finished this series with Cent. 37–45, issued between 1890 and 1905. Details to this exsiccata, including data of the publication of the particular centuria and announcements in the journals *Botanische Zeitung*, *Flora* and *Hedwigia* are to be found in Kohlmeyer (1962). 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 so far that names published in exsiccata have often been neglected or wrongly cited in nomenclature databases and taxonomic treatments. The particular centuria of “Herbarium Vivum Mycologicum” and “Fungi Europaei Exsiccati” were prepared and, when ready to be distributed, announcements in several botanical journals were published, i.e., descriptions on printed labels in the exsiccata have priority and names (with repeated descriptions) in the journals are later isonyms (Art. 6.3, Note 2) that have to be disregarded. In some cases, particular centuria were issued even one calendar

year earlier [e.g., *Fungi Europaei Exsiccati*, Cent. 3 in 1860, but announcements in *Botanische Zeitung* 19 and *Flora* 44 in 1861]. Numerous names appearing in exsiccata are nomina nuda (without any descriptions or diagnoses) which were validated in later publications by the original author or other authors, either as “ex cases” or as “combinations” under other generic names. In the latter case, the validated names must be attributed to the validating authors alone. The present work was performed in consultation with Index Fungorum and MycoBank, i.e., the results are also meant to be groundwork for these databases.

An almost complete set of “*Fungi Europaei Exsiccati*, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” preserved in HAL was the base for the present nomenclatural study and reassessment of names. Cent. 10 is not preserved at HAL. Scans of labels with taxonomic novelties from Cent. 10 have been prepared on the basis of duplicates preserved at the herbarium in Berlin (B) and Munich (M). Some types have been re-examined in order to clarify the identity of the taxa concerned. In other cases, currently used and recognized names are cited and highlighted in bold.

## Annotated list of taxa

### Cent. 1

*Polyporus nigricans* Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 15, 1859 [*Bot. Zeitung* 17: 295, 1859; *Flora* 42: 433, 1859], nom. illeg. (Art. 53.1).

Notes: This name was published with a description, but it is a homonym of *Polyporus nigricans* Fr., 1821, and synonymous with *Trametes versicolor* (L.) Lloyd (fig. 1).

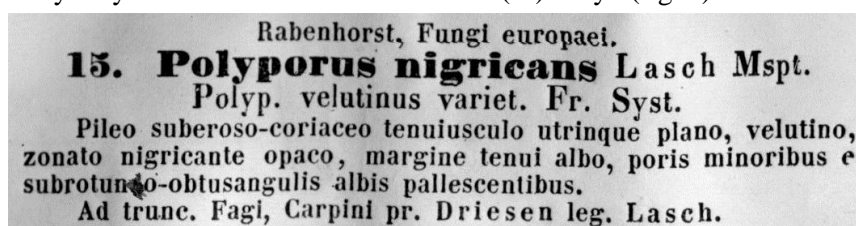


Fig. 1

*Polyporus rugulosus* Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 16, 1859 [*Bot. Zeitung* 17: 295, 1859; *Flora* 42: 434, 1859], nom. illeg. (Art. 53.1).

Notes: This name was published with a description, but it is a homonym of *Polyporus rugulosus* Lév., 1844 (fig. 2).

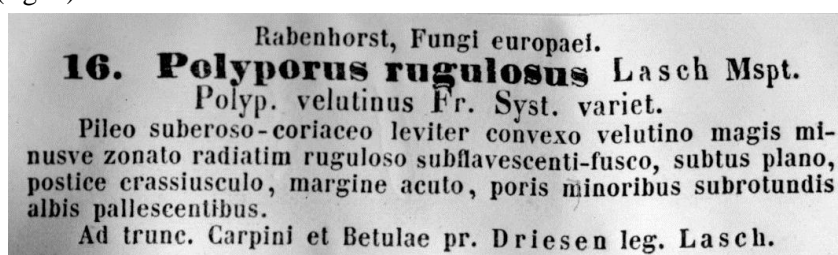


Fig. 2

*Peziza avellanae* Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 28, 1859 [*Bot. Zeitung* 17: 296, 1859; *Flora* 42: 434, 1859].

≡ *Pezizella avellanae* (Lasch) Fuckel, *Jahrb. Nassauischen Vereins Naturk.* 23-24: 299, [1869-70] 1870.

Notes: This is a valid species name with a description on the label of *Fungi Eur. Exs.* 28 (fig. 3).



Fig. 3

*Peziza pineti* var. *abietis* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 31, 1859 [Bot. Zeitung 17: 296, 1859; Flora 42: 434, 1859].

Notes: This is a valid variety name with a diagnosis on the label of Fungi Eur. Exs. 31 (fig. 4).



Fig. 4

*Sphaeria chlorospora* Ces., Erb. Critt. Ital., Ser. 1, Fasc. 2: no. 296, 1859 [Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 48, 1859; Bot. Zeitung 17: 296, 1859; Flora 42: 434, 1859].

≡ *Venturia chlorospora* (Ces.) P. Karst., Bidr. Känn. Finl. Nat. Folk 23: 189, 1873.

Notes: This species name was published on the label of Fungi Eur. Exs. 48 with a description and illustration (fig. 5). However, until now it was not possible to clarify the exact dates when the two exsiccata were issued.



Fig. 5

*Sphaeria schistostroma* Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 53, 1859 [Bot. Zeitung **17**: 303, 1859; Flora **42**: 435, 1859].

≡ *Fenestella schistostroma* (Duby ex Rabenh.) Cooke, Grevillea **14**(no. 70): 48, 1885.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 53 (fig. 6).

Rabenhorst, Fungi europaei.  
**53. Sphaeria schistostroma** (Dub. ined.)  
 immersa demum erumpens epidermide cineta, receptaculis  
 5—15 aggregatis ovatis verticalibus inclinatisve stromate  
 nigro inaequali primum compacto demum in fragmenta  
 plura diffisso tectis, ostiolis vix prominulis saepe obsoletis,  
 thecis cylindrico-elongatis rigidis paraphyses filiformes tenuis-  
 simas superantibus sporas 1-seriales ovoideo globosas hyali-  
 nas primo 1-demum 3-septatas et tandem parenchymaticas  
 et tum intensius lutescentes includentibus. — Ad ramos  
 exsiccatos Ribis aurei, in hortis circa Genevam. — Nomen  
 specificum a stromate et σχισον fissum compositum.  
 Inter Obvallatas Fr. et in vicino S. tesserae collocanda;  
 leg. Duby.

Fig. 6

*Dothidea lycii* Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 55, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

≡ *Dothidea lycii* Duby, Mém. Soc. Phys. Hist. Nat. Genève **15**: 198, 1859.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 55 (fig. 7). Rabenhorst (l.c.) published this species with the note “Dub. ined.” suggesting that his publication in the exsiccata appeared at first, before Duby’s publication in the journal.

Rabenhorst, Fungi europaei.  
**55. Dothidea Lycii** (Dub. ined.) subcutanea  
 minuta sparsa demum erumpens sphaerica aut ovata epi-  
 dermide dilacerata cineta, primum aurantiaca, demum fus-  
 cescens et etiam nigricans, ostiolis nullis; sparmogoniis e  
 cellulis primo numero-is minutissimis compositis; pustulis  
 thecasporis e cellulis parvis 4—6 compositis, thecis oblongo-  
 clavatis sporas oblongas fuscas 3-septatas in parte superiori  
 2-seriales foventibus paraphysibus longioribus circumdatis.  
 — Ad ramos emortuos Lycii europaei in hortis Genevae,  
 leg. Duby.

Fig. 7

*Isaria sulphurea* Fiedl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 60, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

≡ *Chrysosporium sulfureum* (Fiedl.) Oorschot & Samson, in Van Oorschot, Stud. Mycol. **20**: 28, 1980.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 60 (fig. 8).

Rabenhorst, Fungi europaei.  
**60. Isaria sulphurea** Fiedl. Mspt. et in litt.  
 ad Rabenh.  
 I. (ostophila) simplex erecta gregaria oblonga s. clavata,  
 1—3''' longa, sulphurea, farinoso-floccosa; sporidia rotunda  
 simplicia hyalina.  
 Ad ossa putrida prope Doemitz (Flor. Megapol.) leg.  
 Dr. Fiedler.

Fig. 8

*Arthrobotryum broomei* Rabenh. [as “broomii”], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 65, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

Notes: This is a valid species name with a diagnosis on the label of Fungi Eur. Exs. 65 (fig. 9).



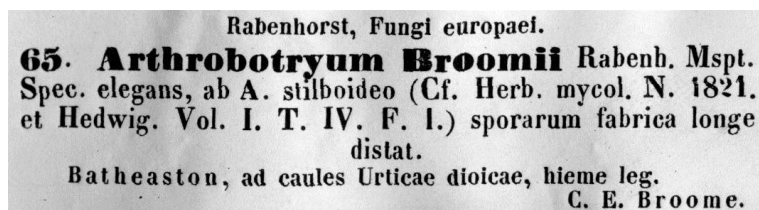


Fig. 9

*Fusarium betae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 69, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859], nom. nud.

≡ *Fusarium betae* Rabenh. ex A.B. Frank, Krankh. Pflanz. (Breslau): 601, 1880.

≡ *Cercospora betae* (Rabenh. ex A.B. Frank) Sacc., Syll. fung. **10**: 637, 1892.

= *Cercospora beticola* Sacc., Nuovo Giorn. Bot. Ital. **8**(2): 189, 1876.

Notes: This species name is a nom. nud., published without description on the label of Fungi Eur. Exs. 69 (fig. 10). *Fusisporium betae* Desm. was cited with a question mark, i.e., it was not cited as “basionym” for a combination. Frank (1880: 601) cited Rabenhorst’s name, *Fusarium betae*, and added a diagnosis, i.e., he discussed differences between *Cercospora beticola* Sacc. and *F. betae*. Frank (l.c.) supposed that the latter species might belong to *Cercospora* [“Dagegen ist ein in dem Rabenhorstschen Exsiccaten unter dem Namen Fusarium Betae Rabenh. ausgegebener Pilz, wiewohl er eine Cercospora zu sein scheint, abweichend” (On the other hand, a fungus issued in Rabenhorst’s exsiccata under the name Fusarium Betae Rabenh., which seems to a Cercospora, is different)]. In any case, the name “*Cercospora betae*”, sometimes ascribed to Frank (l.c.), was not introduced in this work.

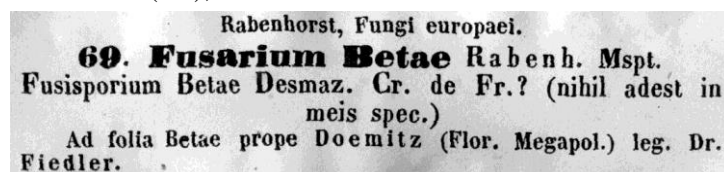


Fig. 10

*Illosporium aurantiacum* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 74, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Erythricium aurantiacum* (Lasch) D. Hawksw. & A. Henrici, Field Mycology **16**(1): 16, 2015.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 74 (fig. 11).

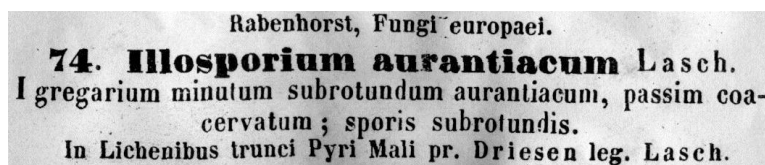


Fig. 11

*Peronospora dentariae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 86, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Hyaloperonospora dentariae* (Rabenh.) Voglmayr, Mycol. Progr. **13**(1): 140 [2014] 2013.

Notes: This is a valid species name published with a diagnosis on the label of Fungi Eur. Exs. 86 (fig. 12).

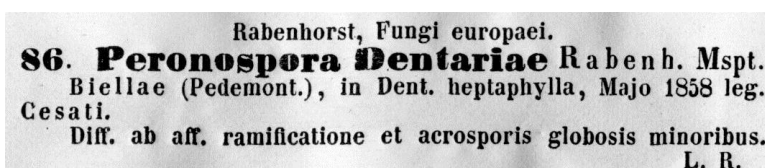


Fig. 12

*Puccinia cirsii* Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 89 (fig. 13).

Rabenhorst, Fungi europaei.  
**89. Puccinia Cirsii** Lch.  
*P. sporis breviter pedicellatis, obtusis, atrobrunneis.*  
*Ad folia Cirsii oleracei pr. Driesen leg. Lasch.*

Fig. 13

*Uredo cirsii* Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 90, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Puccinia cirsii* Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 90 (fig. 14).

Rabenhorst, Fungi europaei.  
**90. Uredo Cirsii** Lch.  
*U. sporis globosis, saturate-cinnamomeo-fuscescentibus.*  
*Ad folia Cirsii oleracei pr. Driesen leg. Lasch.*

Fig. 14

*Uromyces inaequaltus* Lasch in Rabenh. (as “*inaequialta*”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 94, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 94 (fig. 15).

Rabenhorst, Fungi europaei.  
**94. Uromyces inaequalta** Lch.  
*acervis atrobrunneis, sporis subrotundis obovatisque, aliis sessilibus, aliis breviter v. elongato-pedicellatis.*  
*In foliis Silenes nutantis prope Driesen leg. Lasch.*

Fig. 15

*Gloeosporium veronicarum* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 97, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859], nom. inval. (Art. 36.1).

≡ *Gloeosporium veronicarum* Ces. ex Sacc., Syll. fung. **3**: 710, 1884.

≡ *Discogloeum veronicarum* (Ces. ex Sacc.) Petr., Ann. Mycol. **21**(3/4): 285, 1923.

Notes: This name was not validly published in Fungi Eur. Exs. 97 since it was not accepted in this publication (fig. 16, “pro inter.” = ad int.).

Rabenhorst, Fungi europaei.  
**97. Gloeosporium Veronicarum.**  
*Ces. hb. pro inter.*  
*Uterius examinandum; cirrhi nimis fugaces pro genere. Ex sporarum forma et compositione, ex cubiculo hypophleode etc. Gloeosporia propinquat; sed tenuissima videtur mucilago sporas adglutinans.*  
*In fol. adhuc vigentibus Veron. officinalis, in Valle Andurnensi (Pedem., prov. Bugellae): autumn tempore leg. Cesati.*

Fig. 16

*Gloeosporium andurnense* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 98, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Marssonina andurnensis* (Ces.) Magnus, Hedwigia **45**: 89, 1906.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 98 (fig. 17).

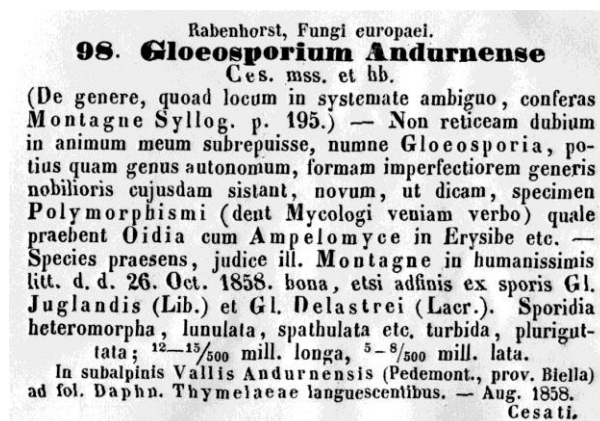


Fig. 17

*Caeoma subapiculosum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 99, 1859 [Bot. Zeitung 17: 304, 1859; Flora 42: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 99 (fig. 18).

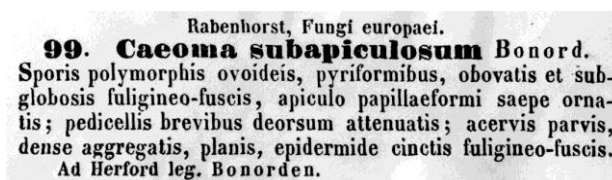


Fig. 18

## Cent. 2

*Sphaerella myriadea* (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 149, 1860 [Bot. Zeitung 18: 174, 1860; Flora 43: 746, 1860].

≡ *Sphaeria myriadea* DC., in de Candolle & Lamarck, Fl. franç., Edn 3 (Paris) 5/6: 145, 1815.

≡ *Sphaerulina myriadea* (DC.) Sacc., Michelia 1(4): 399, 1878.

Notes: This is a valid combination published in Fungi Eur. Exs. 149 (fig. 19).



Fig. 19

*Sphaerella conglomerata* (Wallr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 150, 1860 [Bot. Zeitung 18: 174, 1860; Flora 43: 746, 1860].

≡ *Sphaeria conglomerata* Wallr., Fl. crypt. Germ. (Norimbergae) 2: 814, 1833.

≡ *Mycosphaerella conglomerata* (Wallr.) Lindau, in Engler & Prantl, Nat. Pflanzenfam., Teil. I (Leipzig) 1(1): 424, 1897.

Notes: This is a valid combination published in Fungi Eur. Exs. 150 (fig. 20).

Rabenhorst, Fungi europaei.  
**150. Sphaerella conglomerata** (Wallr.)  
 Rabenh.  
 Forma: Alnicola!  
*Sphaeria conglomerata* a) Alni Desmaz. Crypt. de Fr.  
 N. 1449.  
 Oestrich ad Rhenum in fol. Alni leg. L. Fuckel.

Fig. 20

*Lophodermium laricinum* Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 158, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 158 (fig. 21).

Rabenhorst, Fungi europaei.  
**158 Lophodermium laricinum** (Dub.  
 mém. inéd.)  
 Sparsum minutum emergens laeve sed epidermide matricis  
 tenuissima subtilissime lineolatum atro-nitidum ovatum con-  
 vexo-cristatum, labiis tenuibus elavatis conniventibus sed  
 lineam longitudinalem angustissimam convexam relinquen-  
 tibus, thecis elongato-clavatis non pedicellatis, sporis fili-  
 formibus sporulas globosas 6–7 foventibus post disruptionem  
 rectiusculis paulo divergentibus.  
 Ad folia sicca decolorata Laricis prope Cormayeur, ad radices  
 australes Mont-blanc — Minutissimum ab  $\frac{1}{2}$ — $\frac{1}{10}$  millimetrum  
 longum.

Fig. 21

*Combosira* (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Asteroma* [unranked] *Combosira* Fr., Summa veg. Scand., Sectio posterior (Uppsala): 425, 1849.

Type species: *Sphaeria reticulata* DC. (≡ *Guignardia reticulata* (DC.) Aa).

= *Guignardia* Viala & Ravaz, Bull. Soc. Mycol. Fr. **8**(2): 63, 1892, nom. cons. (Art. 14).

Notes: Fries (l.c) introduced *Asteroma* [unranked] *Combosira* with a brief description. He listed three *Asteroma* spp. under *Asteroma* [unranked] *Combosira*, including *A. reticulata*. In Fungi Eur. Exs. 159 (fig. 22), Rabenhorst introduced the genus name *Combosira* as combination based on *Asteroma* [unranked] *Combosira* and confined it to *Combosira reticulata*, which represents an indirect typification.

Rabenhorst, Fungi europaei.  
**159. Combosira reticulata** (De C.) Rabenh.  
 Mspt. Fr. Summ. 425.  
*Sphaeria reticulata* D. C. Flor. fr. 138. Rabenh. Handb.  
 I. 188. *Asteroma reticul.* Chev. Desmaz. Crypt. de Fr.  
 Ed. I. N. 1339. Ed. II. N. 739.  
 In foliis Convall. multifi. ad Olaszinum (Wallendorf in der  
 Zips) Septbr. 1859 leg. Kalchbrenner.

Fig. 22

*Combosira reticulata* (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Sphaeria reticulata* DC., in de Candolle & Lamarek, Fl. franç., Edn 3 (Paris) **5/6**: 138, 1815.

≡ *Asteroma reticulata* (DC.) Chevall., Fl. gén. env. Paris (Paris) **1**: 447, 1826.

≡ *Guignardia reticulata* (DC.) Aa, Stud. Mycol. **5**: 23, 1973.

Notes: The combination *C. reticulata* was validly published in Fungi Eur. Exs. 159 (fig. 22).

*Cryptosporium sorbi* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 160, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860], nom. nud.

≡ *Septoria sorbi* Lasch, in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 5: no. 459, 1843 [and Bot. Zeitung **2**: 172, 1844], nom. nud.

≡ *Septoria sorbi* Fuckel [as (Ces.) Fuckel], Jahrb. Nassauischen Vereins Naturk. **23–24**: 390, [1869–1870] 1870, nom. nud.

≡ *Phoma sorbi* Sacc. [as “(Lasch) Sacc.”], Syll. Fung. **3**: 529, 1884.

≡ *Septoria sorbi* (Sacc.) Sacc. [as “Sacc.”], Bull. Soc. Mycol. Fr. **5**(4): 121, 1890.

*Pestalotia callunae* Ces. (as “*Pestalozzia*”), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 161, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 161 (fig. 23).



Fig. 23

*Stilbum xanthopus* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 170, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Stilbella xanthopus* (Rabenh.) Lindau, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) **1.9**: 300, 1908.

Notes: This species was validly published with a description in Fungi Eur. Exs. 170 (fig. 24).



Fig. 24

*Hormodendrum farinosum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 173, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Ramularia farinosa* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 206, 1886.

≡ *Ramularia calcea* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 17: no. 1681, 1852.

Notes: This species was validly published with a description in Fungi Eur. Exs. 173, supplemented by a drawing (fig. 25 A, B). *Hormodendrum farinosum* is a synonymy of *Ramularia calcea* (see Braun 1998: 112).

Rabenhorst, Fungi europaei.  
**173. Hormodendrum Bonord.** Allg. Mycol.  
 p. 76.  
*H. farinosum* nov. sp.  
 Sporis ovatis simplicibus haud septatis, ramis primariis rudimentariis, secundariis articulatis, articulis oblongis bipunctatis.  
 Acervuli farinoso-floccosi irregulares in foliis vivis Symphiti off.; in Guesthalia leg. Bonorden.

Fig. 25 A (text)

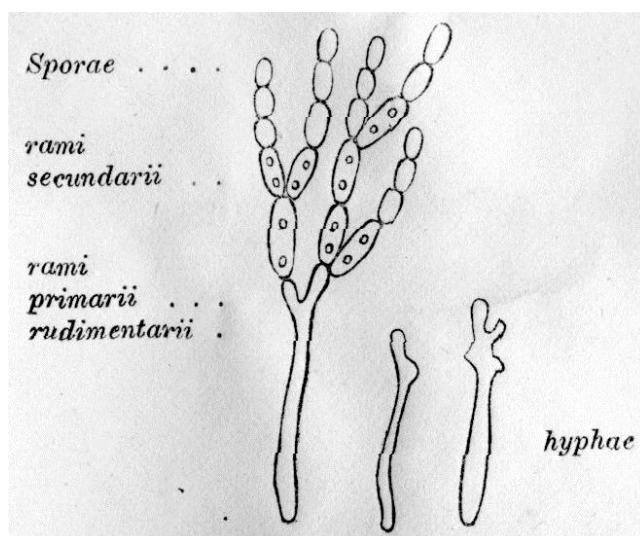


Fig. 25 B (illustration)

*Torula bulbiger* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 175, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 175 (fig. 26).

Rabenhorst, Fungi europaei.  
**175. Torula bulbiger** Bonord.  
 (Acrosporium bulbigerum Nees. Oidium Fries.)  
 Sporis ovatis s. oblongo-ovatis, 4—6 concatenatis, hyalinis albis, hyphis triseptatis, basi bulbosis, suffultis; mycelio ramoso, septato et repente.  
 Horford in foliis Graminum leg. Bonorden.  
 Die Hyphen erheben sich im rechten Winkel von dem kriechenden Mycelium, haben an der Basis eine erweiterte Stelle (bulbillus), dann folgt eine, oft ganz cylindrische Strecke mit 2—3 Septen und auf dieser stehen 4—6 Sporen kettenförmig verbunden, welche oval, reif ganz durchsichtig, unreif mit kleinen Zellen oder Bläschen gefüllt sind. Die reifen Sporen enthalten einen festen Kern, welcher durch das Verschmelzen dieser kleinen Zellen entsteht.

Fig. 26

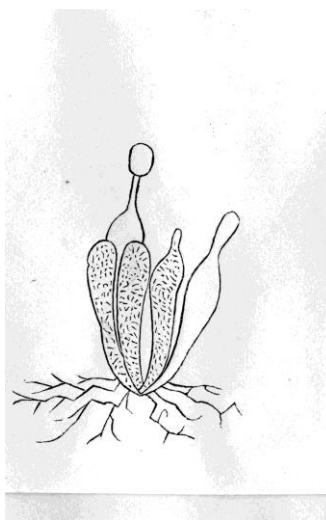
*Erannium* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 182, 1860].

Type species (designated here, MycoBank, MBT385607): *Uredo tussilaginis* Pers. (= *Coleosporium tussilaginis* (Pers.) Tul.).

Notes: The genus name *Erannium* was at first validly published in Fungi Eur. Exs. 176 (fig. 27). Bonorden (1860: 182) repeated the description with reference to the earlier publication in the exsiccata. Bonorden's (l.c.) paper was at first published in the journal "Abhandlungen der

Naturforschenden Gesellschaft zu Halle” and later as separately distributed reprint. Bonorden (l.c.) already cited the publication in Rabenhorst’s exsiccatum, suggesting that the description in Fungi Eur. Exs. 176 appeared at first. The following species were assigned to *Erannium*:

*Erannium aurantiacum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860], nom. superfl., Art. 52.1 [*Uredo* (as “*Caeoma*”) *tussilaginis* Pers. (= *Coleosporium tussilaginis* (Pers.) Tul.) was cited as synonym; Bonorden (l.c.) cited “*Caeoma tussilaginis* Pers.” which represents an indirect reference to *Uredo tussilaginis* and constitutes the new combination: *Caeoma tussilaginis* (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860].



Rabenhorst, Fungi europaei.  
**176. Erannium** Bonord. nov. genus!  
 Receptaculum sporisoriis clavatis compositum, cystidiis haud cinctum, demersum; sporae exogae, primum pedicellatae dein secedentes et conglutinatae; acervi primum epidermide tecti, tremellosi, subconvexi, aggregati, saepe confluentes, dein denudati granulosi, medio depressi; mycelio ramoso laete colorato.

*Erannium aurantiacum* Bonord.  
 (*Caeoma Tussilaginis* Pers.)

Sporis ovatis irregularibus saepe pleurogynis, obscure aurantiis, primum pedicellatis, dein secedentibus; acervis primum clausis, convexis aurantiis, dein nudis, tremellosis.

Hab. in foliis Sonchi et Tussilaginis.

Bei dieser Art fallen die Sporen, meist mit kurzen Stielen, welche dick, unten rund abgestumpft sind, ab. Die Stiele verschwinden bei den reifen Sporen, werden zum Episorium verwendet, so daß die reifen Sporen stiellos und größer sind. Es ist dies Eigenthümlichkeit der Gattung. Ich kenne noch 3 andere Arten: *E. segetum* Myk. F. 50. *E. aureum* Mihi und *E. miniatum* (*Caeoma miniatum* aut. p. p.), welcher letztere Pilz mit *Coleosporium miniatum* Mihi und mit *Physonema aureum* Mihi zusammengeworfen wird.

Bonorden.

Fig. 27

*Erannium aureum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.

≡ *Erannium aureum* Bonord., Abh. Naturf. Ges. Halle **5**: 183, 1860, nom. superfl., Art. 52.1 [*Uredo tremellosa* F. Strauss and *Caeoma rhinanthacearum* (DC.) Schltdl. were cited as synonyms].

*Erannium miniatum* (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Uredo miniata* Pers., Syn. meth. fung. (Göttingen) **1**: 216, 1801.

≡ *Physoderma miniatum* (Pers.) Bonord., Handb. Mykol.: 53, 1851.

*Erannium segetum* (Bonord.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Physoderma segetum* Bonord., Handb. Mykol.: 53, 1851.

The description and illustration of *Erannium* in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 refers to *E. aurantiacum*, a superfluous name based on *Uredo tussilaginis* (= *Coleosporium tussilaginis*), which is proposed to serve as type of the genus.

*Puccinia maydis* Poetsch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.



*Cystopus sphaericus* (Wallr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 186, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].

≡ *Erysibe sphaerica* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 193, 1833.

Notes: The combination *C. sphaericus* was validly published in Fungi Eur. Exs. 186 (fig. 28).

Rabenhorst, Fungi europaei.  
**186. Cystopus sphaericus Bonord.**  
 Syn. *Erysibe sphaerica* Wallr.  
 Spor. globosis primum concatenatis haud raro stylo brevissimo interceptis, dein liberis; sporisoriis curtis subcylindricis; acervis irregularibus albis nitidis.  
 In *Thlaspi bursa p.* in Guestphalia leg. Bonorden.

Fig. 28

*Coleosporium aureum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 187, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a validly published species with a description in Fungi Eur. Exs. 287 (fig. 29).

Rabenhorst, Fungi europaei.  
**187. Coleosporium aureum Bonord.**  
 Syn. *Caeoma Compransor* Schlecht.?  
 Spor. majoribus globosis aureis; acervis parvis rotundis hypogenis et epidermide tectis aurantiacis, dein denudatis aureis; maculis oppositis viride-flavis.  
 Hab. in foliis *Sonchi* et *Tussilaginis* in Guestphalia; leg. Bonorden.

Fig. 29

*Aecidium candidum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 188, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1), non Pers., 1792.

Notes: This is a homonym. Furthermore, Bonorden (in Rabenhorst, l.c.) cited *Aecidium phaseolorum* Wallr. as synonym.

*Epitea fenestrata* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 189, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

= *Melampsora ribesii-epitea* Kleb., Krypt.-Fl. Brandenburg (Leipzig) **5**: 798, 1914.

Notes: This is a validly published species with a description in Fungi Eur. Exs. 189 (fig. 30). Type material of this species has been examined, agrees well with *Melampsora ribesii-epitea*, and represents an older name for this species.

Rabenhorst, Fungi europaei.  
**189. Epitea Leveille.**  
 Char. gen. Sporae simplices primum pedicellatae mox liberae, ex hypostromate celluloso-carnoso provenientes, cystidiis pedicellatis cinctae, primum epidermide tectae, dein denudatae.  
*Epitea fenestrata* Bonord. (nov. sp.)  
 (*Uredo gyrosa* Reb.?)  
 Spor. globosis s. ovato-globosis (aqua superfusis sub microscopio punctato-umbrinis, siccis luteo-umbrinis) breviter pedicellatis; cystidiis hyalinis, magnis, longe pedicellatis, ampullaeformibus, cavis, quasi fenestratis; hypostromate (mycelio) emergente; acervis rotundis saepe confluentibus et gyrosis.  
 Hab. in foliis *Salicis capreae* in Guestphalia; leg. Bonorden.

Fig. 30

*Epitea oblonga* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

= *Melampsora laricis-populina* Kleb., Z. Pflanzenkrankh. **12**: 43, 1902.

Notes: This is a validly published species with a description in Fungi Eur. Exs. 190 (fig. 31). Type material of this species has been examined, agrees well with *Melampsora laricis-populina*, and represents an older name for this species.

Rabenhorst, Fungi europaei.  
**190. *Epitea oblonga* Bonord. nov. sp.**  
 Sporis oblongis s. oblongo-sphaeroideis, luteo-viridibus, breviter pedicellatis; pedicellis albis; cystidiis hyalinis solidis aut intus moleculis viridibus nonnullis praeditis, ampullaeformibus, mediocribus; acervis rotundis planis pallide flavis, epidermide cinctis, gregariis.  
 In fol. Populi in Guestphalia leg. Bonorden.

Fig. 31

*Uredo obconica* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 191, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a validly published species with a description in Fungi Eur. Exs. 191 (fig. 32).

Rabenhorst, Fungi europaei.  
**191. *Uredo obconica* Bonord. (Sp. nova).**  
*Uredo* Lev. Fries. Ch. G.  
 Sporae inaequales saepe cohaerentes, in mycelio tenuissimo celluloso sessiles, sub epidermide plantarum nidulantes, eaque rupta diffusae.  
*Uredo obconica* Bonord.  
 Sporis obconicis utrinque obtusis flavidis; acervis minutis, flavis, hypogenis, subplanis; maculis pallidis.  
 In foliis Populor. in Guestphalia leg. Bonorden.

Fig. 32

*Uredo fusca* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1).

Notes: Several *Caeoma* species were cited as synonyms.

*Caeoma rufum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 194, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 194 (fig. 33).

Rabenhorst, Fungi europaei.  
**194. *Caeoma rufum* Bonord. (Sp. nova.)**  
 (Trichobasis Lev.)  
 Sporis globosis et ovatis cohaerentibus rufis (sub microsp. pallide rufis), furfuraceo-granulosis, subpellucidis; pedicellis brevibus deorsum attenuatis; acervis rotundis sparsis, convexis, amphigenis, rufis, macula haud cinctis.  
 Hab. in foliis Phaseoli vulgaris, Convolvuli arvensis etc. saepius in consortio cum Caeomate apiculoso, in Guesphalia leg. Bonorden.  
 (Hypostromate emergente —)

Fig. 33

*Caeoma fuscum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 196, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 196 (fig. 34).

Rabenhorst, Fungi europaei.  
**196. *Caeoma fuscum* Bonord. (Sp. sejunct.)**  
 (Trichobasis Lev.)  
 Spor. plerumque ovatis s. ovato-globosis, primum luteo-fuscis, dein fuscis, subfarinaceis; pedicellis cylindricis brevibus, tenuibus; acervis rotundis, sparsis, fuscis, epidermide cinctis.  
 Hab. in foliis Astragali etc. prope Bielefeld; leg. Bonorden.

Fig. 34

*Caeoma rubiginosum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 197, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 197 (fig. 35).

Rabenhorst, Fungi europaei.  
**197. *Caeoma rubiginosum* Bonord. (Sp. nov.)**  
 (Trichobasis Lev.)  
 Spor. subglobosis s. ovatis, laevibus, rubiginosis, magnis, punctatis; pedicellis crassis, deorsum attenuatis; acervis rotundis, amphigenis; hypostromate emergente.  
 Hab. in foliis Tabae vulgaris, Rumicis, Lithospermi etc. in consortio cum Puccinia clavuligera Wallr. in Guestphalia.  
 Bei dieser Species wie bei *C. rufum* kann man am leichtesten den Bau des hypostroma untersuchen und erkennen. Bonorden.

Fig. 35

*Caeoma flavum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 198, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860, Abh. Naturforsch. Ges. Halle **5**: 228, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 198 (fig. 36).

Rabenhorst, Fungi europaei.  
**198. *Caeoma flavum* Bonord. (Sp. nov.)**  
 (Trichobasis Lev.)  
 Spor. globosis flavis, inaequalibus; episporio crasso hyalino; pedicellis longis deorsum incrassatis; acervis longis s. ellipticis, flavis, pulvinatis, subaurantiis.  
 Hab. in foliis Graminum in Guestphalia, ubertim.  
 Gehört zu den wenigen Arten des *Caeoma*, welche mit Wasser benetzt, meist kugliche Sporen haben. Trocken sind die Sporen mehr oval, etwas rauh, gelb durchscheinend, frisch und reif erscheinen sie punctirt und glatt. Von *Caeoma Rubigo* unterscheidet sich diese Art wesentlich dadurch, daß *Rubigo* reiche stachelige und eßig runde Sporen hat, welche nur in sehr kleinen rundlichen oder viereckigen Häufchen vorkommen, dicht gelagert sind und immer rostfarben erscheinen. Benetzt mit Wasser werden die Sporen des *C. Rubigo* dem *C. flavum* ähnlicher, trocken sind sie am Rande dunkel undurchsichtig, in der Mitte gelblich. Bonorden.

Fig. 36

*Caeoma phaeum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 199, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 199 (fig. 37).

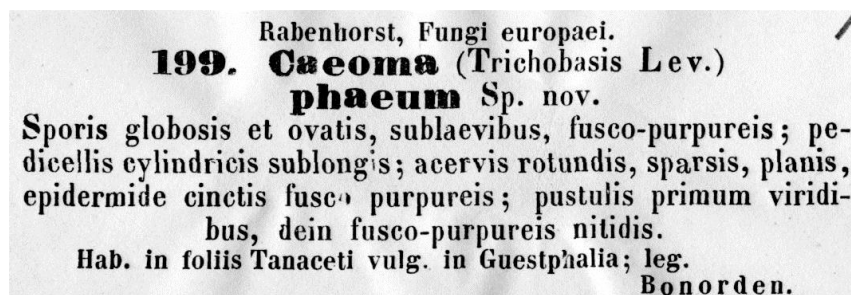


Fig. 37

### Cent. 3

*Cantharellus coemansii* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 209, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 140, 1861].  
 Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 209 (fig. 38).



Fig. 38

*Peziza rubi* var. *herbicola* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 218, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].  
 Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 218 (fig. 39).



Fig. 39

*Peziza retincola* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 225, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].  
 = *Trichobelonium kneiffii* (Wallr.) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.2**(1–2): 103 [1908] 1893.  
 Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 225 (fig. 40).



Fig. 40

*Phacidium minutissimum* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 228, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].

= *Naevala perexigua* (Roberge ex Desm.) K. Holm & L. Holm, Bot. Notiser **131**(1): 100, 1978.  
 Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 228 (fig. 41).



Fig. 41

*Dermatea cerasi* [as “*cerati*”] f. *pycnidifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 232, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 232 (fig. 42).

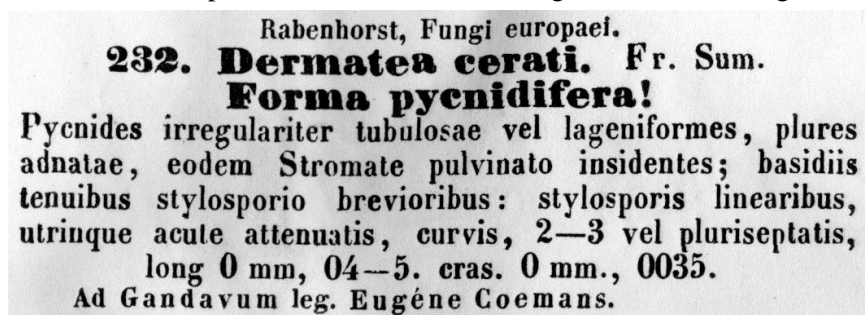


Fig. 42

*Dermatea cerasi* f. *spermogonifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 233, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 233 (fig. 43).

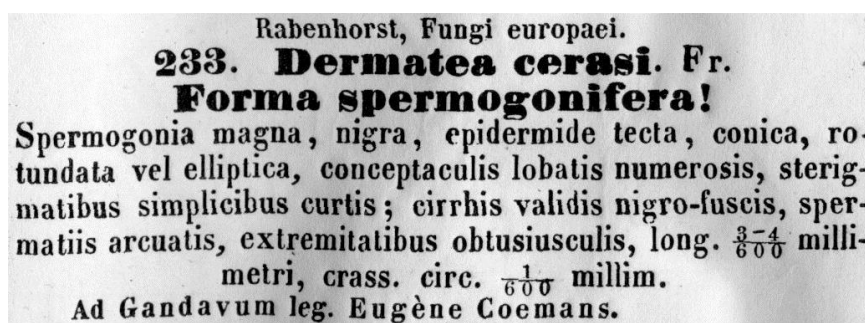


Fig. 43

*Cordyceps alutacea* (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

≡ *Sphaeria alutacea* Pers., Comm. fung. clav. (Lipsiae): 12, 1797.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).

*Cordyceps alutacea* var. *albicans* (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

≡ *Sphaeria alutacea* var. *albicans* Pers., Syn. meth. fung. **1**: 2, 1801.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).

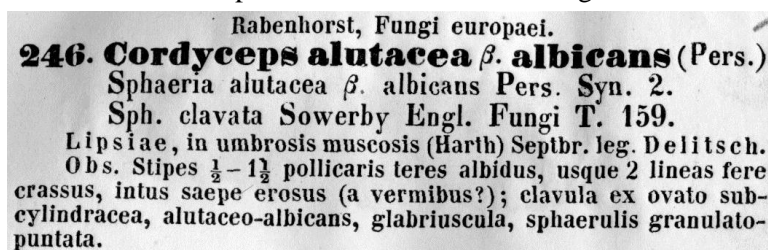


Fig. 44

*Sphaeria curreyi* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 250, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861], nom. illeg. (Art. 53.1), non A. Bloxam ex Curr., 1859.

≡ *Sphaeria apiculata* Curr., Trans. Linn. Soc. London **22**: 326, 1859, nom. illeg. (Art. 53.1), non Wallr., 1833.

≡ *Valsaria apiculata* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) **1**: 752 1882.

≡ *Apiorhynchostoma apiculata* (Sacc.) Petr., Ann. Mycol. **21**(3-4): 185, 1923.

≡ *Apiorhynchostoma curreyi* E. Müll. (as "(Rabenh.) E. Müll."), in Müller & von Arx, Beitr. Kryptfl. Schweiz **11**(2): 706, 1962.



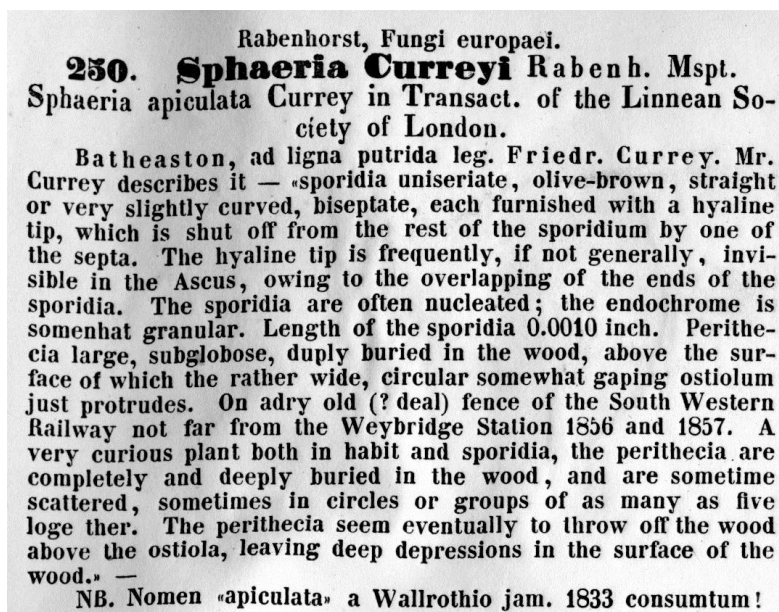


Fig. 45

*Microstoma* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861], nom. illeg., Art. 53.1, non Bernstein, 1852.

= *Cytospora* Ehrenb., Sylv. mycol. berol. (Berlin): 28, 1818.

Notes: The genus name *Microstoma* was published in Fungi. Eur. Exs. 253 (fig. 46), with *Sphaeria microstoma* Pers. as type species. This name is illegitimate and is a heterotypic synonym of *Cytospora*.

*Microstoma vulgare* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].

= *Sphaeria microstoma* Pers., Syn. meth. fung. (Göttingen) **1**: 40, 1801.

= *Valsa microstoma* (Pers.) Fr., Summa veg. Scand., Sectio Post. (Stockholm): 411, 1849.

= *Cytospora populina* (Pers.) Rabenh., Deutschl. Krypt.-Fl. (Leipzig) **1**: 148, 1844.

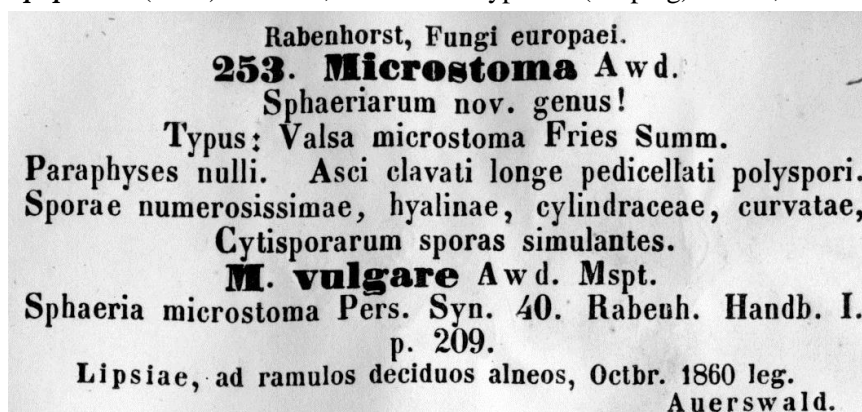


Fig. 46

*Ceratostoma rostratum* (Tode) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 256, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].

= *Sphaeria rostrata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 14, 1791 [: Fr., Syst. mycol. **2**(2): 473, 1823].

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 256 (fig. 47).



Rabenhorst, Fungi europaei.  
**256. Ceratostoma rostratum** (Tode) Rabenh.  
 Mscr.  
**Sphaeria rostrata** Fr. Syst. II. 473. Rabenh. Handb. I. 186.  
 In ramulis siccis ad Gandavum leg. Eugène Coemans.  
 Obs. Gregarie; ostioliis 2—5 aggregatis, rarius solitariis,  
 elongato-cylindraceis, subcornutis, rectiusculis vel curvatis, apice  
 truncatis sporis generis profluentibus numerosissimis in glebulam  
 subglobosam sordide flavicantem conglutinatis coronatis. L. R.

Fig. 47

*Massaria amblyospora* (Berk. & Broome) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 257, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].

≡ *Sphaeria amblyospora* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 2, **9**: 322, 1852.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 257 (fig. 48).

Rabenhorst, Fungi europaei.  
**257. Massaria amblyospora** (Berk. in Annals  
 and Mag. of Nat. Hist. for April and May 1852 T. X.  
 F. 10.) Ries in Fres. Beitr. II. p. 60. T. VII. F. 24.  
 Rabenh. Herb. mycol. Ed. I. N. 1830.  
 Dresdae, ad ramos dejectos in nemorosis (Gross. Garten)  
 Octbr. 1859 leg. ipse.  
 Obs. Asci obovato-clavati octospori, sporis subcuneato-brevi  
 clavatis trilocularibus fusciscentibus, loculo super. maximo. L. R.

Fig. 48

*Sphaeria herbarum* f. *euphrasiae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 258, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 258 (fig. 49).

Rabenhorst, Fungi europaei.  
**258. Sphaeria herbarum** Rabenh. Conf.  
 Herb. myc. Ed. II. N. 541 et sq.  
**Forma: Euphrasiae!**  
*Sphaeria herbarum* Pers. ex parte!  
**S. sparsa**, minuta, nitida; ostiolo brevi, ascis gracilibus  
 octosporis, sporis oblongis v. ellipsoideis, monoblastis, hya-  
 linis 9—11 m.m. longis.  
 Ad Euphrasiae caules siccos pr. Driesen leg. Lasch.

Fig. 49

*Bilimbiospora* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861], nom. rej. (Art. 14.6/7).

≡ *Leptosphaeria* Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 234, 1863.

Notes: This is a rejected genus name published with a description on the label of Fungi Eur. Exs. 261 (fig. 50).

*Bilimbiospora doliolum* (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 143, 1861].

≡ *Sphaeria doliolum* Pers., Icon. Desc. Fung. Min. Cognit. (Leipzig) **2**: 39, 1800.

≡ *Leptosphaeria doliolum* (Pers.) Ces. & De Not., Comm. Soc. Crittog. Ital. 1(4): 234, 1863.  
Notes: This is a combination published on the label of Fungi Eur. Exs. 261 (fig. 50).

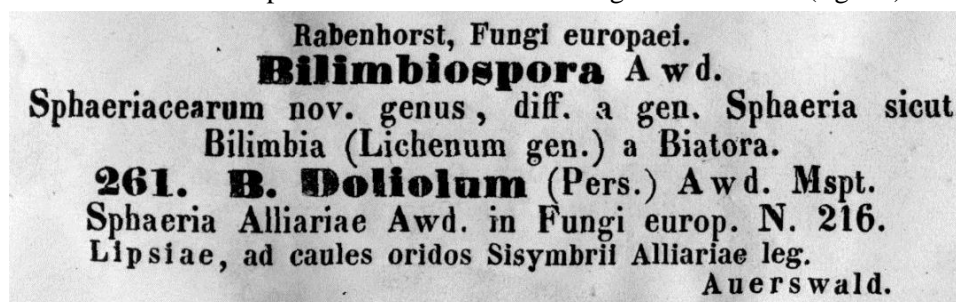


Fig. 50

*Macrosporium atrum* (Corda) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 273, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861].

≡ *Septosporium atrum* Corda, in Sturm, Deutschl. Fl., 3 Abt. (Pilze Deutschl.) 3(12): 33, 1831.  
Notes: This is a valid combination published on the label of Fungi Eur. Exs. 273 (fig. 51).

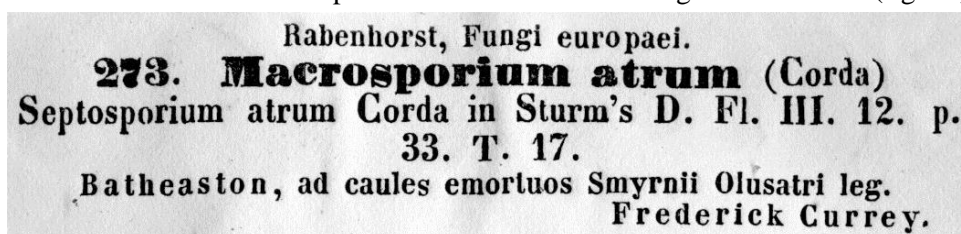


Fig. 51

*Torula rubella* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 281, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861].  
Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 273 (fig. 52).

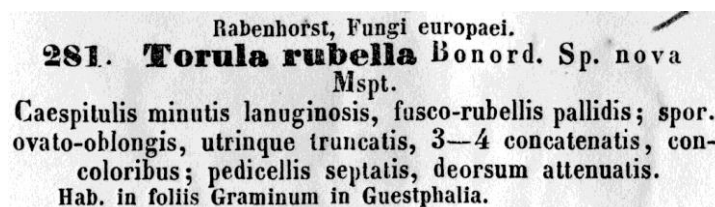


Fig. 52

*Cryptosporium viride* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 287, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861, Abh. Naturforsch. Ges. Halle 8: 129, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 287 (fig. 53).

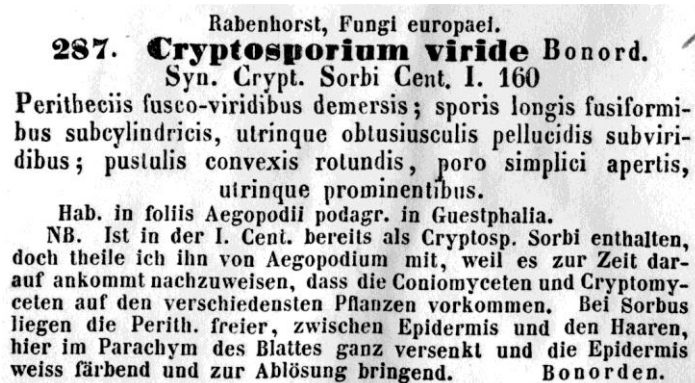


Fig. 53

*Phacellium* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].  
 Notes: This is a valid genus name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54).

*Phacellium dishonestum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].

= *Stysanus alborosellus* Desm., Ann. Sci. Nat., Bot., Sér. 3, **20**: 217, 1853.

≡ *Phacellium alborosellum* (Desm.) U. Braun, Nova Hedwigia **50**(3-4): 509, 1990.

Notes: This is a valid species name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54). Full synonymy, see Braun (1998: 323).

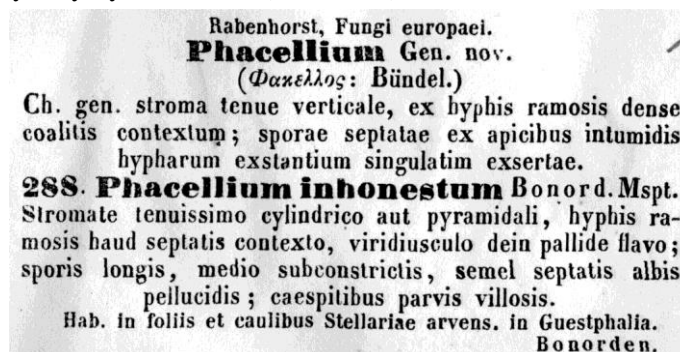


Fig. 54

*Peronospora obovata* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 289, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 289 (fig. 55).



Fig. 55

*Peronospora effusa* var. *hyoscyami* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 291, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].

= *Peronospora hyoscyami* de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 123, 1863.

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 291 (fig. 56).



Fig. 56

*Epitea obovata* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 294, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 294 (fig. 57).

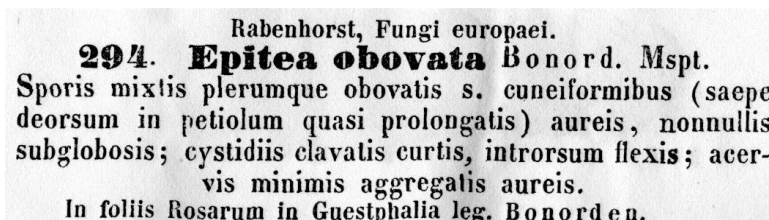


Fig. 57

*Caecoma rubrum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 299, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 299 (fig. 58).



Fig. 58

*Crocysporium fallax* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 300, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

= *Ovularia fallax* (Bonord.) Sacc., Syll. fung. **4**: 141, 1886.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 300 (fig. 59). It represents an asexual morph of a powdery mildew (Erysiphales), probably *Erysiphe baeumleri* (Magnus) U. Braun & S. Takam. (see Braun 1998: 287).

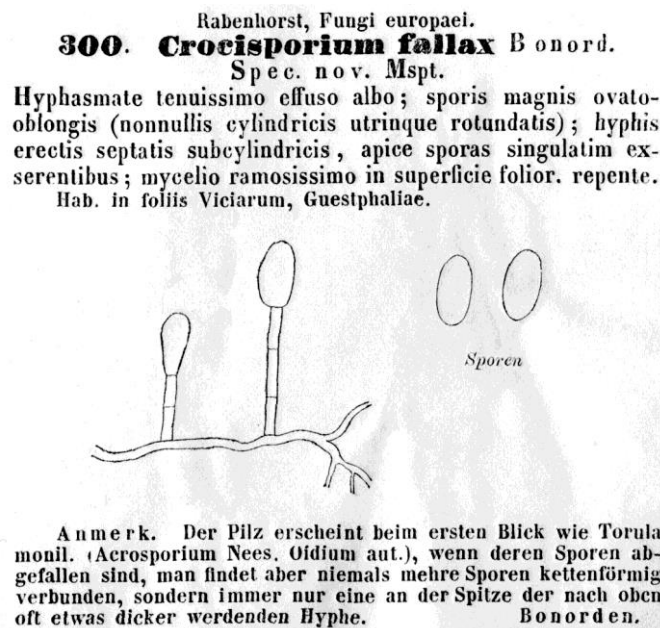


Fig. 59

## Cent. 4

*Agaricus typhae* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 306, 1861 [Bot. Zeitung **19**: 294, 1861].

≡ *Psathyrella typhae* (Kalchbr.) A. Pearson & Dennis, Trans. Brit. Mycol. Soc. **31**(3-4): 185, [1947] 1948.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 306 (fig. 60).

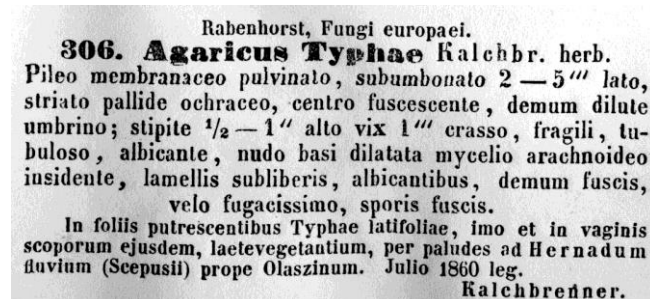


Fig. 60

*Cucurbitaria rhamni* (Nees) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 339, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria rhamni* Nees, Syst. Pilze (Würzburg): 299, [1816-17] 1816.

≡ *Neocucurbitaria rhamni* (Nees) Jaklitsch & Voglmayr, in Jaklitsch et al., Stud. Mycol. **90**: 99, 2017.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 339 (fig. 61).



Fig. 61

*Cucurbitaria elongata* var. *simplex* (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 340, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria elongata* var. ( $\gamma$ ) *simplex* Fr., Syst. mycol. **2**(2): 423, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 340 (fig. 62).

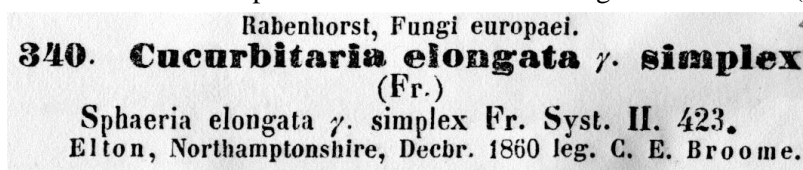


Fig. 62

*Phoma complanata* (Tode) Desm. (as “*complanatum*”), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria complanata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 21, 1791.

≡ *Calophoma complanata* (Tode) Qian Chen & L. Cai, Stud. Mycol. **82**: 194, 2015.

Notes: This is a valid combination (with indirect reference to *Sphaeria complanata*, Art. 41.3) published on the label of Fungi Eur. Exs. 343 (fig. 63).

*Phoma complanata* var. *acuta* Auersw. (as “*acutum*”), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 343 (fig. 63).

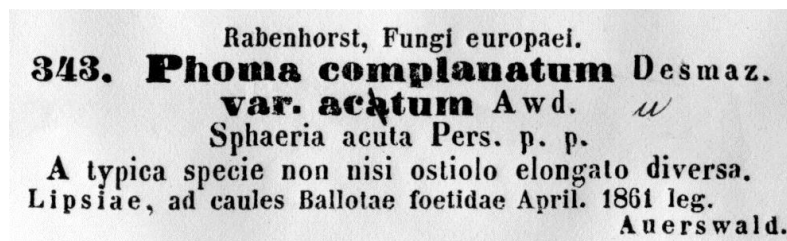


Fig. 63

*Vermicularia schoenoprasi* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 346, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 346 (fig. 64).

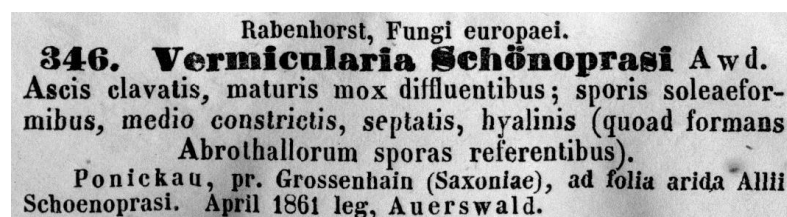


Fig. 64

*Dothidea rimosa* var. *depauperata* Desm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 349, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 349 (fig. 65).

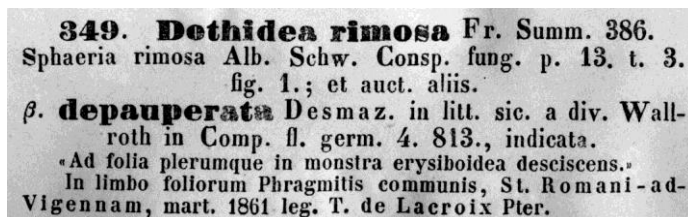


Fig. 65

*Tympanis crataegi* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 353, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Ocellaria aurantiaca* var. *crataegi* (Lasch) Rehm, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) 1.3(Lief. 30): 135 [1896] 1888.

≡ *Dermatea crataegi* (Lasch) Jaap, Fung. Sel. Exs.: no. 413, 1910.

= *Peziza sepium* Desm., Ann. Sci. Nat., Bot., Sér. 3, **14**: 111, 1850.

≡ *Helotium sepium* (Desm.) Sacc., Syll. fung. (Abellini) **8**: 229, 1889.

≡ *Calycina sepium* (Desm.) Kuntze, Revis. gen. pl. (Leipzig): **3**(2): 449, 1898.

≡ *Pezicula sepium* (Desm.) Dennis, Persoonia **3**: 65, 1964.

= *Pezicula crataegi* Auersw. ex Fuckel, Jahrb. Nassauischen Ver. Naturk. **27-28**: 56, [1873-74] 1874, nom. nud.

≡ *Pezicula crataegi* Auersw. ex Hazsl., Mag. Szab. Disc.: 220, 1886.

= *Dermatea crataegicola* Durand, J. Mycol. **10**: 100, 1904.

≡ *Pachydisca crataegicola* (Durand) Boudier, Hist. Class. Disc. Eur. (Paris): 93, 1907.

= *Dermatea olivascens* Rehm, Ann. Mycol. **5**: 80, 1907.

Notes: This is a valid species published on the label of Fungi Eur. Exs. 353 (fig. 66). Dennis (1974) reduced *T. crataegi* to synonymy with *Pezicula sepium*.



Fig. 66

*Raphidospora ononidis* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 359, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.

Notes: In addition, *Sphaeria fruticum* Roberge ex Desm. was cited as synonym, i.e., *R. ononidis* would also be a superfluous new name (Art. 52.1).

*Spilosphaeria vincetoxici* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 362, 1861 [Bot. Zeitung **19**: 295, 1861].

= *Depazea vincetoxici* Ficinus & C. Schub., Fl. Geg. Dresd. **2**: 352, 1823.

≡ *Sphaeria vincetoxici* (Ficinus & C. Schub.) Fr., Elench. fung. (Greifswald) **2**: 109, 1828.

≡ *Septoria vincetoxici* (Ficinus & C. Schub.) Sacc. (as "Auersw."), Syll. fung. **3**: 542, 1884.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 362 (fig. 67). Saccardo (l.c.) assigned the combination *Septoria vincetoxici* to Auerswald ("F. Eur." = Fungi Europaei). However, there is only a single collection in the whole series of this exsiccata under the name *Septoria vincetoxici*, viz., Fungi Eur., Cent. 18, no. 3787, 1891. Saccardo's (l.c.) citation of Auerswald in Fungi Europaei probably referred to *Spilosphaeria vincetoxici*.





Fig. 67

*Didymium praecox* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 367, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.

≡ *Didymium praecox* de Bary ex Rostaf., Śluzowce monogr. (Paryz): 163, [1874] 1875.

= *Didymium squamulosum* (Alb. & Schwein.) Fr., in Fries & Nordholm, Symb. gasteromyc. (Lund) **3**: 19 [1817] 1818.

Notes: This name was not validly published by de Bary in Fungi Eur. Exs. 367 (fig. 68). It was just mentioned that the “new species” is allied to *Didymium candidum*, but different. However, details were not given. The name *Didymium praecox* was later validated by Rostafiński (1875: 163), who added a Polish description. Saccardo (1888: 380) listed this name with reference to Rostafiński (1875: 163) and added a Latin description.



Fig. 68

*Peronospora macrocarpa* f. *elongata* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 374, 1861 [Bot. Zeitung **19**: 295, 1861].

= *Plasmopara pygmaea* (Unger) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.1**(9–16): 239, [1889] 1886.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 69) as substrate (host) forma. Constantinescu (1991: 58) classified this name as “invalid” which is not correct.



Fig. 69

*Peronospora grisea* f. *trifolii* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 375, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Peronospora trifoliorum* de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 117, 1863.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 70) as substrate (host) forma.

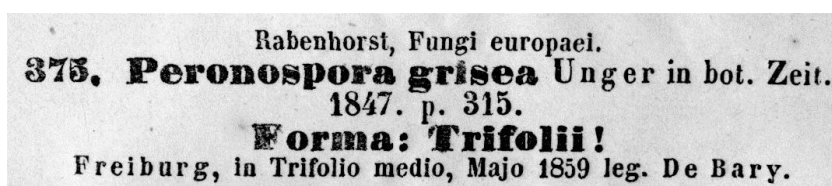


Fig. 70

*Fusidium pteridis* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 389, 1861 [Bot. Zeitung **19**: 296, 1861].

≡ *Cryptomycella pteridis* (Kalchbr.) Höhn., Mitt. Bot. Inst. Tech. Hochsch. Wien **2**(3): 48, 1925.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 389 (fig. 71).

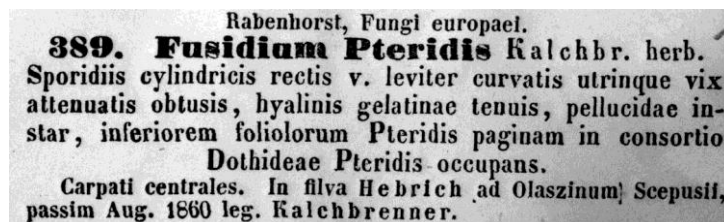


Fig. 71

*Puccinia graminis* var. *avenae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 392, 1861 [Bot. Zeitung **19**: 296, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 392 (fig. 72).



Fig. 72

*Urocystis colchici* (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 396, 1861 [Bot. Zeitung **19**: 296, 1861], nom. inval. (Art. 35.1).

≡ *Caeoma colchici* Schltdl., Linnaea **1**: 241, 1826.

≡ *Urocystis colchici* (Schltdl.) A.A. Fisch. Waldh., Bull. Soc. Imp. Nat. Moscou **40**: 258, 1867.

Notes: The genus name *Urocystis* was introduced by Rabenhorst in Fungi Eur. Exs. 396 (fig. 73) as illegitimate (superfluous) nom. nov. to replace *Polycystis* Lév., 1846, with reference to *Polycystis* (Kützing) Kützing, 1849. *Urocystis* Rabenh. ex Fuckel is now a conserved name, and *Polycystis* Lév. has been rejected.



Fig. 73

## Cent. 5

*Thelephora laciniata* var. *vaccinii* Kalchbr. (as "*Telephora*"), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 410, 1862 [Bot. Zeitung **20**: 198, 1862].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 410 (fig. 74).

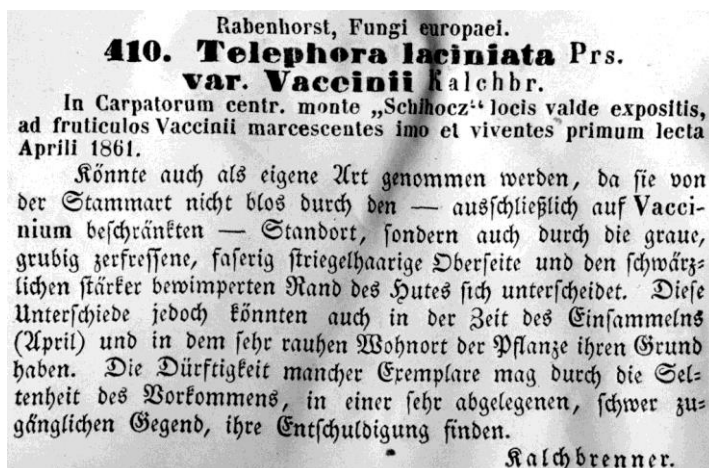


Fig. 74

*Hypochnus michelianus* Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 413, 1862 [Bot. Zeitung 20: 198, 1862].

= *Septobasidium michelianum* (Caldesi) Pat., Essai Tax. Hyménomyc. (Lons-le-Saunier): 10, 1900.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 413 (fig. 75).



Fig. 75

*Clavaria pruinella* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 414, 1862 [Bot. Zeitung 20: 198, 1862].

= *Ramaria stricta* (Pers.) Quél., Fl. mycol. France (Paris): 464, 1888.

Notes: This is a validly published species with a descriptions on the label of Fungi Eur. Exs. 414 (fig. 76).

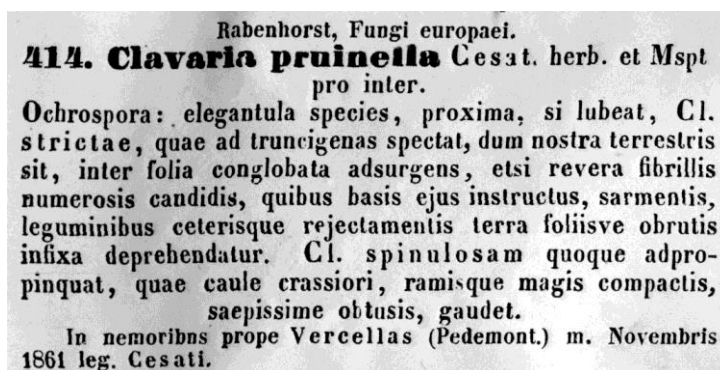


Fig. 76

*Typhula gilva* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 419, 1862 [Bot. Zeitung 20: 198, 1862].

= *Pistillaria gilva* (Lasch) Corner, Monograph of *Clavaria* and allied Genera, (Ann. Bot. Mem. 1): 482, 1950.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 419 (fig. 77).

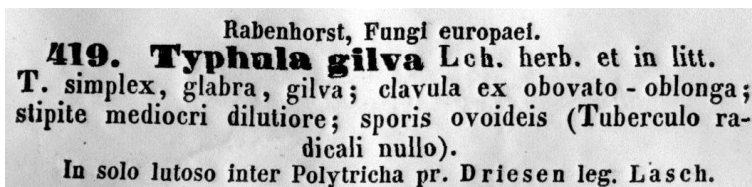


Fig. 77

*Ascobolus solms-laubachii* Rabenh. [as “*solms-laubachi*”], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 420, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Ascozonus solms-laubachii* (Rabenh.) Brumm., Persoonia **16**(4): 432, 1998.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 420 (fig. 78).



Fig. 78

*Peziza obvelata* Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 422, 1862 [Bot. Zeitung **20**: 198, 1862].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 422 (fig. 79).



Fig. 79

*Peziza stitzenbergeri* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 427, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Peziza umbonata* var. *epiphylla* Alb. & Schwein., Conspectus fung. (Leipzig): 339, 1805 [: Fr., Syst. mycol. **2**(1): 146, 1822].

≡ *Niptera umbonata* (Pers.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 292 [1869-70] 1870.

Notes: This species was validly published as new species name based on *Peziza umbonata* var. *epiphylla* on the label of Fungi Eur. Exs. 427 (fig. 80).

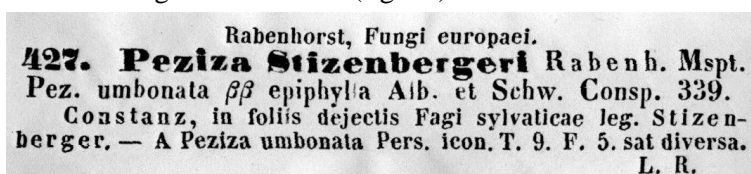


Fig. 80

*Reticularia carestiana* Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 436, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Lepidoderma carestianum* (Rabenh.) Rostaf., Śluzowce monogr. (Paryż): 188 [1874] 1875.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 436 (fig. 81).



Fig. 81

*Sphaeria vepris* Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 443, 1862 [Bot. Zeitung **20**: 199, 1862].  
 ≡ *Sphaeria rubi* Currey, Trans. Linn. Soc. London **22**: 325, 1859, nom. illeg. (Art. 53.1), non Mart., 1817.  
 ≡ *Anisogramma vepris* (Lacroix) Merezko, in Smitskaya, Smyk & Merezko, Opredelitel' Pirenomitsetov USSR (Kiev): 258, 1986.  
 Notes: The new name *Sphaeria vepris*, based on *Sphaeria rubi* Currey, 1859, non Mart., 1817, was validly published on the label of Fungi Eur. Exs. 443 (fig. 82).



Fig. 82

*Pleospora dianthi* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 451, 1862 [Bot. Zeitung **20**: 199, 1862].  
 ≡ *Sphaeria dianthi* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Ed. Nova, Cent. 18: no. 1734, 1853, nom. illeg. (Art. 53.1), non Alb. & Schwein, 1805.  
 Notes: *Pleospora dianthi* is a new name based on *Sphaeria dianthi* Ces., 1853, non Alb. & Schwein., 1805, validly published on the label of Fungi Eur. Exs. 451 (fig. 83). *Pleospora dianthi* De Not., Sfer. Ital.: 74, 1863, nom. illeg. (Art. 53.1) is a younger homonym.



Fig. 83

*Sphaeronaema spinella* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 456, 1862 [Bot. Zeitung **20**: 199, 1862].  
 ≡ *Cytonaema spinella* (Kalchbr.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **123**: 84, 1914.  
 Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 456 (fig. 84).

*Lophodermium rhododendri* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 458, 1862 [Bot. Zeitung **20**: 199, 1862], nom. nud.  
 ≡ *Lophodermium rhododendri* Ces. ex Rehm, Ber. Naturhist. Vereins Augsburg **26**: 34, 1881.  
 ≡ *Lophomerum rhododendri* (Ces. ex Rehm) Remler, Biblioth. Mycol. **68**: 179, [1979] 1980.

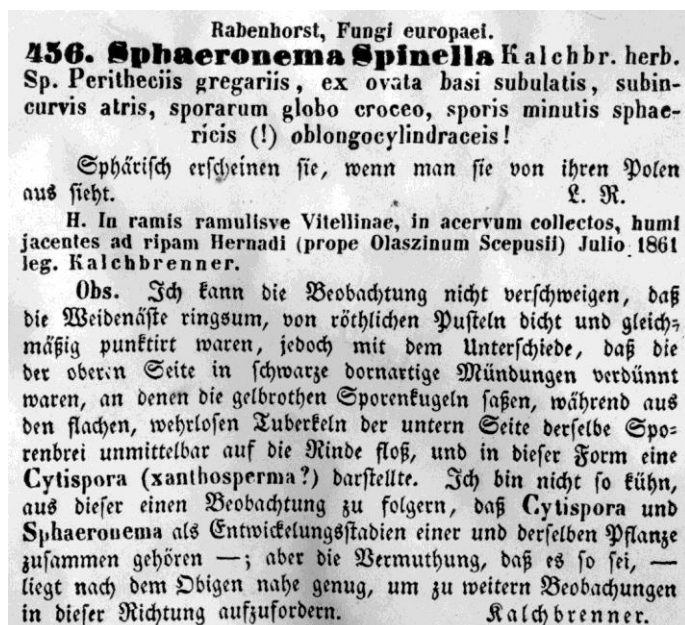


Fig. 84

*Cosmospora* Rabenh. and *Cosmospora coccinea* Rabenh., Hedwigia 2: 59, 1862 [Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 459, 1862; Bot. Zeitung 20: 199, 1862].

*Helminthosporium fructigenum* Rabenh. (as “frunctigenum”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 468, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Brachysporium fructigenum* (Rabenh.) Sacc., Syll. fung. (Abellini) 4: 429, 1886.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 468 (fig. 85).

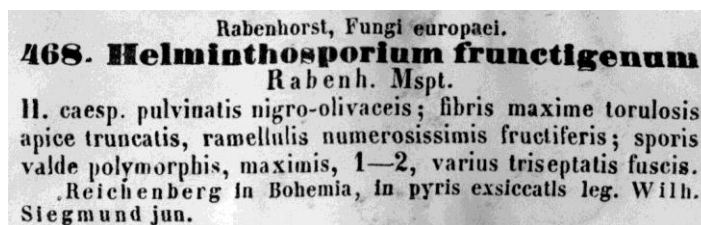


Fig. 85

*Epicoccum dispersum* Ces. & Mont., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 472, 1862 [Bot. Zeitung 20: 199, 1862].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 472 (fig. 86).



Fig. 86

*Bactridium album* (Riess) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 473, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Mastigosporium album* Riess, in Fresenius, Beitr. Mykol. 2: 56, 1852.



Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 473 (fig. 87).



Fig. 87

*Physonema vulgare* (Fr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 474, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Epitea vulgaris* Fr., Summa veg. Scand., Sectio Post. (Stockholm): 512, 1849.

Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 474 (fig. 88).

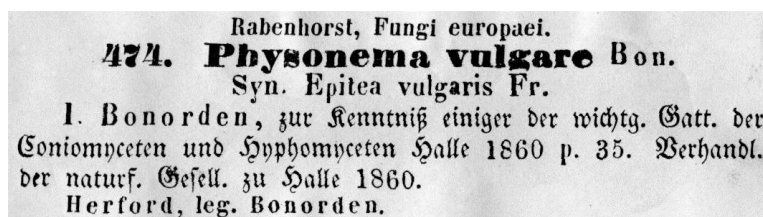


Fig. 88

*Cystopus spinulosus* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 479, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Pustula spinulosa* (de Bary) Thines, Mycotaxon 92: 455, 2005.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 479 (fig. 89).

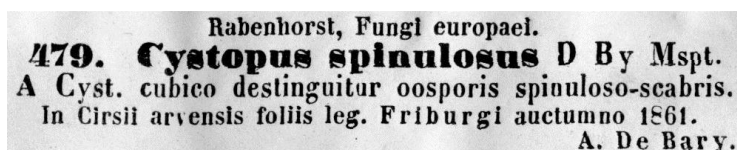


Fig. 89

*Cystopus lepigoni* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 483, 1862 [Bot. Zeitung 20: 200, 1862; Ann. Sci. Nat., Bot., Sér. 4, 20: 132, 1863].

≡ *Albugo lepigoni* (de Bary) Kuntze, Revis. gen. pl. (Leipzig) 2: 658, 1891.

Notes: This species was validly published with a description on the the label of Fungi Eur. Exs. 483 (fig. 90). The description was later repeated in de Bary (1863: 132), who referred to earlier publications of the new taxa in Rabenhorst's exsiccata (see *Cystopus spinulosus* on page 133). *Erysibe arenariae-marinae* Wallr. was cited as synonym. However, this name has never been validly published. Rabenhorst (1844: 13) just cited this name (as "Wallr., in litt.") as synonym (pro. syn.) of *Uredo candida* d. *caryophyllacearum*.





Fig. 90

*Coleosporium cacaliae* (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 484, 1862 [Bot. Zeitung **20**: 200, 1862].

≡ *Uredo cacaliae* DC., Encycl. Méth. Bot. **8**: 223, 1808.

≡ *Coleosporium cacaliae* (DC.) Lév., Ann. Sci. Nat., Bot., Sér. 3, **8**: 375, 1847, nom. inval., Art. 35.2.

≡ *Coleosporium cacaliae* (DC.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 43, [1869-1870] 1870, isonym (Art. 6.3, Note 2).

= *Coleosporium cacaliae* G.H. Otth, Mitt. Naturf. Ges. Bern **580-602**: 179, [1865] 1866, nom. illeg. (Art. 53.1), non (DC.) Rabenh., 1862.

Notes: This is a validly published combination introduced on the the label of Fungi Eur. Exs. 484 (fig. 91). Otth (1866) published *Coleosporium cacaliae* as new species, i.e., *Uredo cacaliae* was not cited as basionym of a combination.

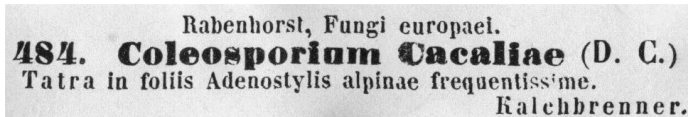


Fig. 91

*Puccinia rumicis* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 496, 1862 [Bot. Zeitung **20**: 200, 1862], nom. illeg. (Art. 53.1), non Bellynck, 1852.

Notes: This species was published with a description on the label of Fungi Eur. Exs. 496 (fig. 92), but the name is illegitimate (younger homonym).



Fig. 92

## Cent. 6

*Agaricus laccatus* var. *perpusillus* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 503, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This variety was validly published with a description on the label of Fungi Eur. Exs. 503 (fig. 93).

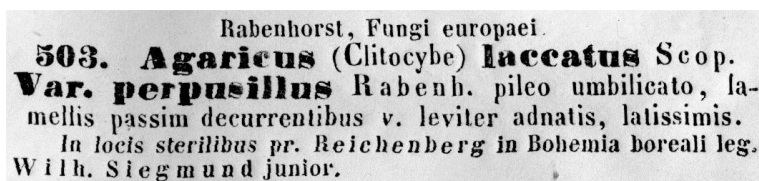


Fig. 93

*Marasmius karlii* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 506, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This species was validly published with a brief diagnosis on the label of Fungi Eur. Exs. 506 (fig. 94), emphasizing that this species is intermediate between *M. androsaceus* (L.) Fr. and *M. rotula* (Scop.) Fr.

Rabenhorst, Fungi europaei.  
**506. Marasmius Karlii** Rabenh. Mspt.  
*M. forma*, quae inter *M. androsaceum* et *M. Rotulam*  
 medium tenet.  
 Gregarie ad Pini truncos mucidos vetustos pr. Mariae  
 balneum Bohemiae, Junio 1862 leg. Karl.

Fig. 94

*Peziza infarciens* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 515, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Helotium infarciens* (Ces.) Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 378, 1863.

≡ *Hymenoscyphus infarciens* (Ces.) Dennis, Persoonia **3**(1): 74, 1964.

Notes: *Peziza infarciens* was validly published with a description on the label of Fungi Eur. Exs. 515 (fig. 95). *Helotium infarciens* is a combination based on *Peziza infarciens*, which was cited as synonym by Cesati & de Notaris (1863).

Rabenhorst, Fungi europaei.  
**515. Peziza infarciens** Ces. hb. et mss.  
 Ad ramos ramulosque Cytisi alpini encortuos, subcutanea,  
 dice tecta, et nisi maturitati proxima per rimas longitudinales  
 erumpens. Laete flava, e stipite plus minus compresso dilutiori  
 in cupulam obtuse marginatam dilatata, nunc sparsa, nunc sae-  
 piusque caespitosa. Pro *P. citrinae* forma abnormi e situ mox  
 habui; sed analysis microscopica de specie propria hic agi mihi  
 suasit. In *P. citrina* ex Rabh. hb. mycol. Ed. I. N. 333. et  
 speciminibus nostratibus, asci e cylindraceo clavati, pro tertia  
 parte in pedicellum angustati,  $2\frac{2}{500}$  mm. longi,  $2\frac{3}{500}$  mm. lati, spo-  
 ridia navicularia utrinque acuta foveantes. Illi fungilli nostri, e  
 contra, perfecte cylindracei, etsi maturitatem perfectam non ad-  
 tinxerint, longitudinem  $50/500$  mm., latitudinem  $6/500$  mm. metiuntur;  
 sporae ovales obtusae mihi visae.  
 St. Giovanni di Campiglia (vallis d'Andorno, ditionis  
 Bugellensis in Pedemontio). — Sept. 1861. Cesati.

Fig. 95

*Peziza cyanoderma* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 516, 1863 [Bot. Zeitung **21**: 229, 1863].

= *Caloscypha fulgens* (Pers.) Boud., Hist. Class. Discom. Eur. (Paris): 54, 1907.

Notes: *Peziza cyanoderma* is a valid species published with a description on the label of Fungi Eur. Exs. 516 (fig. 96). This species is a synonym of *Caloscypha fulgens* (see Fraiture & Notte 2001)

Rabenhorst, Fungi europaei.  
**516. Peziza cyanoderma** de By.  
 Humariis Friesii, e. gr. *Pez.* ollari affinis sed diversa ab  
 omnibus speciebus mihi cognitiss videtur: Cupula carnosae  
 extus semper fere aeruginea, disco saturate aurantiaco.  
 stipite brevi, irregulari in mycelium ramosissimum radici-  
 forme, albido-coeruleum soluto.  
 Gregarie crescit vere in silvis montanis, tam acerosis quam  
 frondosis, ad terram muscosam.  
 Cupula primum obconica, tum subhemisphaerica, tandem  
 explanata margine flexuoso. Hyphae faciem exteriorem  
 constituentem membrana caerulea, contentis aurantiacis mu-  
 nitae sunt ita ut colorem aerugineum oculo undo praebeant.  
 Saepissime tota cupula extus aeruginea, rarius pro parte,  
 rarissime omnino luteo-aurantiaca est. Cupulae diameter  
 plerumque semiuncialis, nonnunquam unciam superans.  
 Stipes in terra absconditur, 1—2 lineas longus, mycelio  
 per humum late effuso quasi radicans. Stipitis myceliique  
 hyphae contenta alba, membranas partim coeruleas partim  
 hyalinas praebent, unde color albido-caeruleus.  
 Asci angusti sporas 8 exacte globosas, hyalinas, laevissi-  
 mas foveantes.  
 Innumera hujus fungi multitudo provenit mense Aprili 1862  
 in silvis montium Freiburgensium. A. de Bary.

Fig. 96

*Hysterographium eupatorii* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 530, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Glonium eupatorii* (Lasch) Sacc., Syll. fung. (Abellini) **11**: 386, 1895.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 530 (fig. 97).

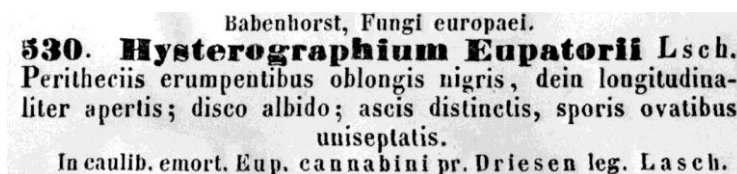


Fig. 97

*Sphaeria luzulae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 533, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Phyllachora luzulae* (Rabenh.) Cooke, Grevillea **13**(67): 64, 1885.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 533 (fig. 98).



Fig. 98

*Hendersonia conorum* Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 540, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 540 (fig. 99).

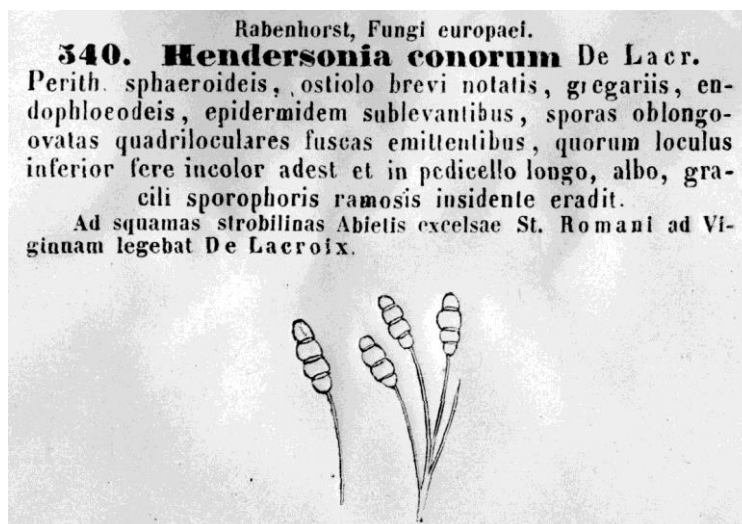


Fig. 99

*Diplodia mori* (Chaillat ex Fr.) Auersw. Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 544, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 53.1), non Berk., 1847.

≡ *Sphaeria mori* Chaillat ex Fr., Syst. mycol. (Lundae) **2**(2): 494, 1823, nom. inval. (Art. 38.1, a).

Notes: This is an illegitimate name (combination), based on an invalid basionym (fig. 100).

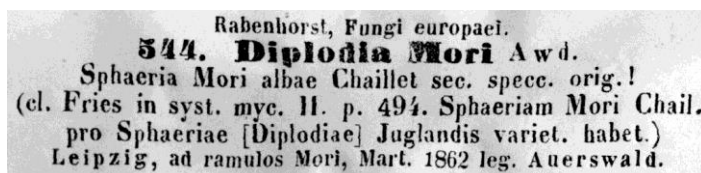


Fig. 100

*Nodulosphaeria dolioloides* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 547, 1863 [Bot. Zeitung **21**: 230, 1863].  
 Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 547 (fig. 101).

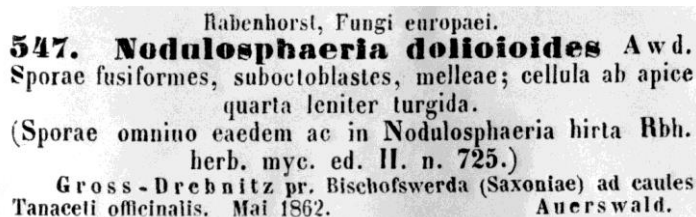


Fig. 101

*Depazea sorbicola* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 548, 1863 [Bot. Zeitung **21**: 230, 1863].  
 Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 548 (fig. 102). Laibach (1920) examined syntype material, but could not trace any conidia. Nevertheless, he considered *Depazea sorbicola* a probable synonym of *Septoria sorbi* Lasch [current valid name – *Septoria sorbi* Sacc. (see Braun 2018a: 6, as “*S. sorbi* (Sacc.) Sacc.”)]. Syntype material preserved at HAL has been re-examined, but this sample is also sterile. Rabenhorst (l.c.) just mentioned the formation of acrogenous conidia, but, in contrast to many other descriptions published in his exsiccata, he did not give any further details, suggesting that the whole material or at least almost all duplicates were immature when collected and distributed. However, the conidiomata in this sample are rather small (50–75 µm diam.). Pycnidia of *Septoria sorbi* are much larger, about 90–200 µm diam. (see Teterevnikova-Babayan, 1987: 376), and ascomata of the putative sexual morph of *S. sorbi* (see Laibach 1920) are 80–120 µm diam. The leaf spots of *Depazea sorbicola* and the size of the conidiomata agree well with a modern description of “*Asteromella trautmanniana* (Moesz) Moesz” in Ruszkiewicz-Michalska (2016: 96), based on collections from Poland on *Sorbus aucuparia*. However, the Polish collections on *S. aucuparia* (conidia cylindrical, (3–)4.5–7.5 × (0.6–)1–1.5 µm) do not agree with the original description of *A. trautmanniana* (conidia ellipsoid, 7–8 × 2–4 µm), a species described from Hungary on *Torminalis glaberrima* (= *Sorbus torminalis*). Furthermore, the generic affinity of the genuine *A. trautmanniana* is not yet clear. The ellipsoid conidia are not in favour of *Asteromella*. According to van der Aa & Vanev (2002), the original description and illustration of the latter species rather suggest an affinity to the genus *Leptodothiorella*, but a species of *Phoma* can also not be ruled out (there are several common *Phoma* species known from species of *Sorbus* s. lat., see Aa & Vanev 2002). The species on *Sorbus aucuparia*, belonging in *Asteromella*, seems to be rather common, at least in Poland. *Depazea sorbicola* seems to refer to this species, but due to the absence of conidia in type material it would be necessary to determine the application of this name by epitypification, which will be proposed elsewhere.

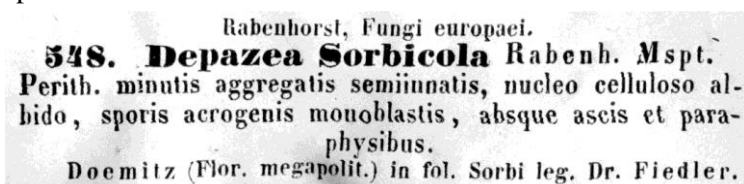


Fig. 102

*Phyllosticta sagittariae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 553, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

Notes: This is a nom. nud., published without description or diagnosis. Van der Aa & Vanev (2002: 409) mentioned that they could not find any pycnidial fungi in the syntype collections examined. The syntype preserved in HAL has been examined. *Phyllosticta sagittariae* is probably a synonym of *Doassansia sagittariae* (Fuckel) J.C. Fisch.

*Spilosphaeria comari* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 554, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

≡ *Septoria comari* Sacc. (as “(Lasch) Sacc.”), Syll. fung. (Abellini) **10**: 363, 1892, nom. nud.

Notes: *Spilosphaeria comari* was published without description or diagnosis. Saccardo (l.c.) allocated this species to *Septoria*, but he failed to validate this species by adding a description.

*Stemonitis friesiana* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 568, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 52.1).

Notes: de Bary (l.c.) included in the original description two previously published valid species (as varieties): *Stemonitis oblonga* Fr. and *St. obtusata* (Fries 1829: 150–160), see fig. 103.

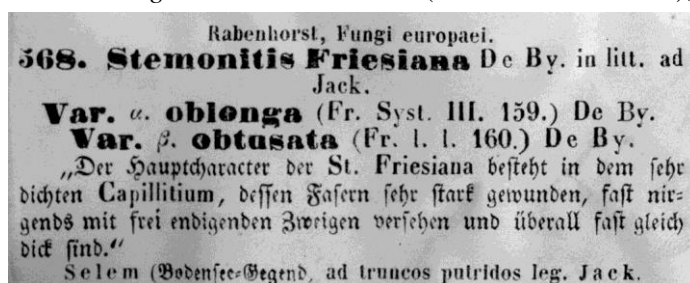


Fig. 103

*Arthrimum sporophlaeum* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 576, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

*Cladosporium caespiticium* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 579, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

= *Cladosporium herbarum* (Pers. : Fr.) Link, Ges. Naturf. Freunde Berlin Mag. Neuesten Entdeck. Gesamnten Naturk. **7**: 37, 1816. See Bensch et al. (2012: 154).

*Sporotheca pannosa* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 580, 1863 [Bot. Zeitung **21**: 230, 1863].

Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 580 (fig. 104).

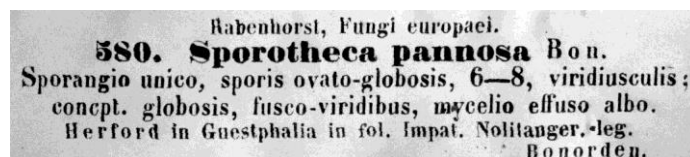


Fig. 104

*Atractium rigidum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 581, 1863 [Bot. Zeitung **21**: 230, 1863; Abh. Naturforsch. Ges. Halle **8**: 96, 1864].

≡ *Epidochium rigidum* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 748, 1886.

Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 581 (fig. 105).

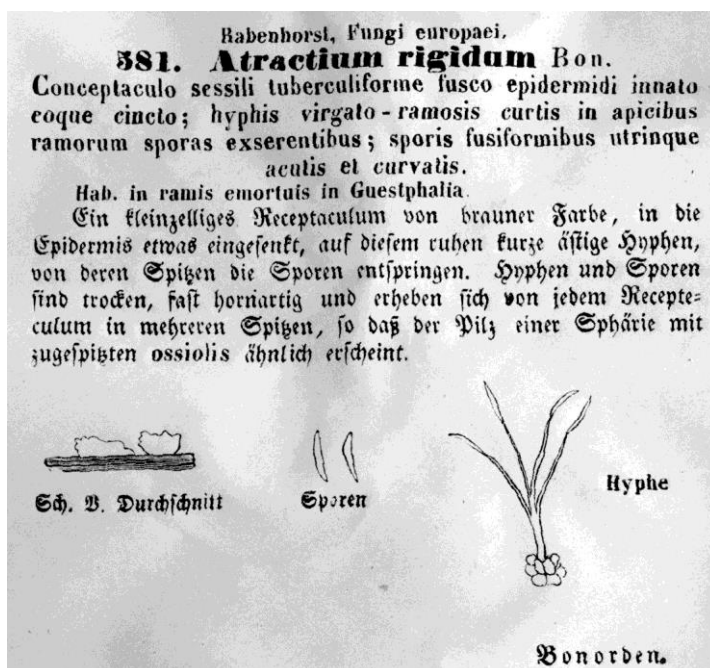


Fig. 105

*Scoliotrichum venosum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 582, 1863 [Bot. Zeitung **21**: 230, 1863; Abh. Naturforsch. Ges. Halle **8**: 96, 1864].

= *Fusicladium pomi* (Fr.) Lind, Danish Fungi (Copenhagen): 521, 1913.

= *Venturia inaequalis* (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. 3: no. 261, 1875.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 582 (fig. 106). It is a synonym of *Venturia inaequalis* (see Schubert et al. 2003).



Fig. 106

## Cent. 7

*Peziza leineri* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 617, 1864 [Bot. Zeitung **22**: 173, 1864], nom. nud.

= *Peziza leineri* Rabenh. & Gonn., Myc. Europ. (Dresden): tab. 5, fig. 4, 1870.

*Peziza trachycarpa* Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 620, 1864 [Bot. Zeitung **22**: 173, 1864; Hedwigia **3**: 71, 1864; Trans. Linn. Soc. London **24**: 493, 1864].

= *Lamprospora trachycarpa* (Curr.) Seaver, Mycologia **6**(1): 19, 1914.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 620 (fig. 107).



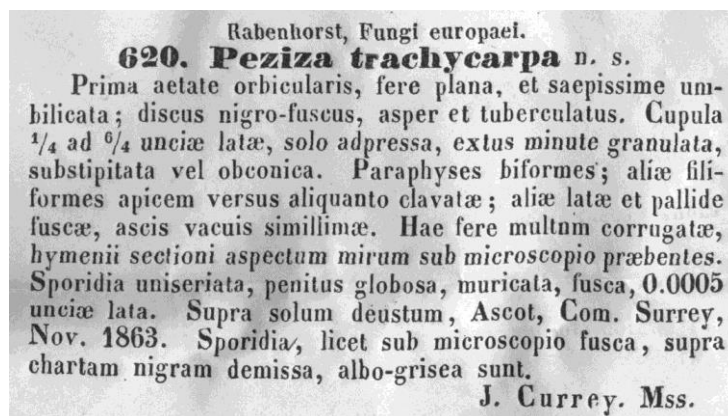


Fig. 107

*Peziza leiocarpa* Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 622, 1864 [Bot. Zeitung **22**: 173, 1864; Hedwigia **3**: 71, 1864; Trans. Linn. Soc. London **24**: 493, 1864].

= *Plicaria endocarpoides* (Berk.) Rifai, Verh. K. Ned. Akad. Wet., Tweede Sect. **57**(3): 255, 1968.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 622 (fig. 108).



Fig. 108

*Naevia lauri* Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 626, 1864 [Bot. Zeitung **22**: 173, 1864], nom. nud.

= *Naevia lauri* Caldesi, Erb. critt. Ital., Ser. 1, fasc.: no. 491 [1863] 1864.

= *Hysterostegiella lauri* (Caldesi) B. Hein, Nova Hedwigia **38**: 689, 1983.

*Sphaerella euonymi* (Kunze ex Fr.) Rabenh. (as "*evonymi*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 657, 1864 [Bot. Zeitung **22**: 174, 1864].

= *Sphaeria euonymi* Kunze ex Fr., in Fries, Syst. mycol. (Lundae) **2**(2): 439, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 657 (fig. 109).



Fig. 109

*Capnodium nerii* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 662, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].

= *Microxyphiella nerii* (Rabenh.) Speg., Physis, B. Aires, C **4**(17): 294, 1918.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 662 (fig. 110).

Rabenhorst, Fungi europaei.  
**662. Capnodium Nerii** Rabenh. herb. et Mspt.  
 Mycelio moniliformi ramoso-reticulato, illo Capnodii Citri  
 simillimo; peridiis elongatis subconicis, sporis oblongis  
 uniseptatis.  
 In foliis Nerii prope Mentone Galliae leg. Böttcher.  
 NB. Specimina non omnia bene evoluta.

Fig. 110

*Capnodium rhamnicola* Rabenh. (as “*rhamnicolum*”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 666, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].

≡ *Microxyphiella rhamnicola* (Rabenh.) Speg., Physis, B. Aires, C **4**(17): 294, 1918.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 666 (fig. 111).

Rabenhorst, Fungi europaei.  
**666. Capnodium Rhamnicolum** Rabenh.  
 Mspt.  
 C. mycelio moniliformi vage ramoso, peridio brevi e basi  
 dilatata subconico, sporis elliptico-oblongis hyalinis uniseptatis. Socio Coniothecio quodam.  
 In foliis Rhamni prope Carlsbad Bohemiae leg. ipse.

Fig. 111

*Depazea sambucicola* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 668, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 668 (fig. 112).

Rabenhorst, Fungi europaei.  
**668. Depazea Sambucicola** Kalchbr. Mspt.  
 D. maculis sat amplis subangulatis griseis, purpureo-fusco  
 limitatis; peritheciis crebris, sparsis, subprominulis, minutis,  
 fusco-atris, sporis acrogenis minutissimis hyalinis globosis.  
 Prope Wallendorf Hungariae leg. C. Kalchbrenner.

Fig. 112

*Isaria hypoxyli* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 670, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 73, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 670 (fig. 113).

Rabenhorst, Fungi europaei.  
**670. Isaria Hypoxyli** Kalchbr. Mspt.  
 I. clavulis estipitatis, ramosis, cervinis in caespitulos, am-  
 bitu radiantes collectis, ramis divisis, apice subdilatatis  
 undique floccoso-pulverulentis.  
 Hab. super Hypoxylo coccineo ad corticem lig-  
 norum focalium, in sylva coacervatorum, ibique putrescentium;  
 raro. Vere. (28. Mart 1863.) Hungar. boscal. ad  
 Olaszinum Scepusii.  
 Rosen, 3—4''' im Durchmesser, finden sich stets an ein  
 Hypoxylon geheftet, dessen Basis von einem Kranz dendritisch  
 verzweigter Keulchen umgeben wird, welche der Rinde dicht an-  
 liegen. Oft auch findet sich das Hypoxylon selbst von der  
 Isaria überzogen, welche dann im Centrum staubig-lappig oder  
 knollig verzweigt erscheint. Die Farbe schwebt zwischen lichtbraun  
 und bräunlich-fleischroth. Basidien zahlreich, hervorragend, bogig  
 gekrümmt, an der Spitze je eine kugliche farblose Spore absetzend.  
 C. Kalchbrenner.

Fig. 113

*Leptothyrium cylindrospermum* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 678, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 74, 1864].

≡ *Gloeosporium cylindrospermum* (Bonord.) Sacc., Fungi italica autogr. del. 17-28: tab. 1027 [1881] 1882.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 678 (fig. 114).



Fig. 114

*Dacrymyces succineus* Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 680, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ *Pseudocenangium succineum* (Sprée) Dyko & B. Sutton, Canad. J. Bot. **57**(4): 372, 1979.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 680 (fig. 115).

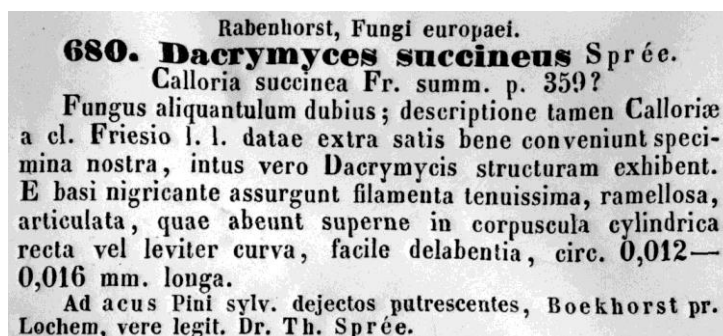


Fig. 115

*Stemphylium sphaeropodium* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 689, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 689 (fig. 116).

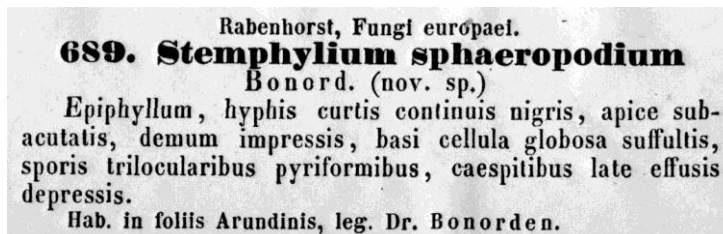


Fig. 116

*Fusicladium macrosporium* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 690b, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ *Monotospora ovata* Sacc., Syll. fung. (Abellini) **4**: 299, 1886, nom. illeg. (Art. 52.1).

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 690b (fig. 117).

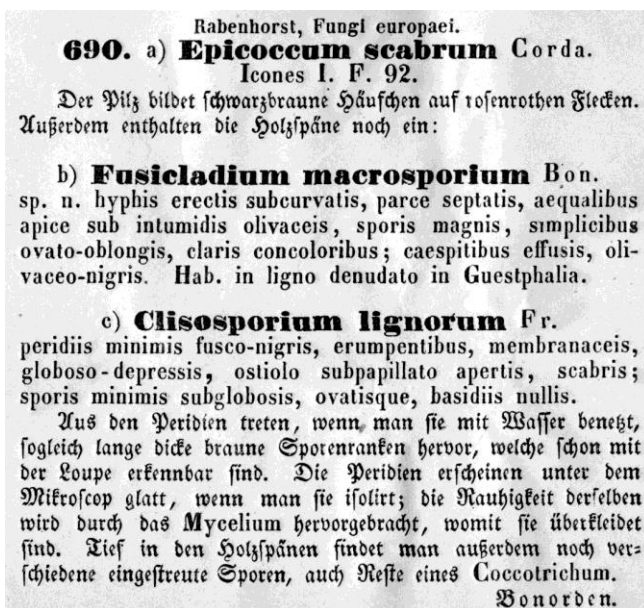


Fig. 117

*Puccinia typhae* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 695, 1864 [Bot. Zeitung 22: 175, 1864; Hedwigia 3: 75, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 695 (fig. 118).

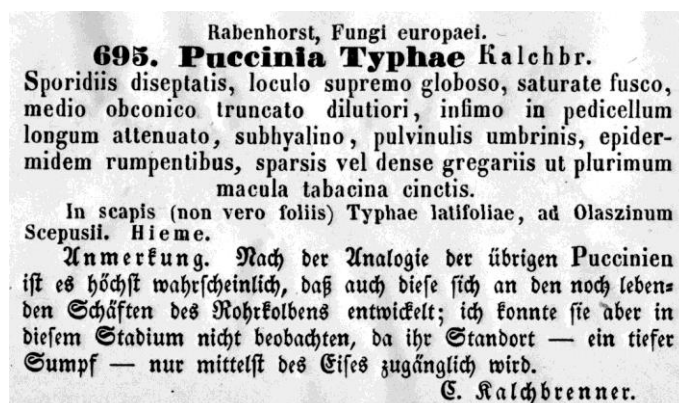


Fig. 118

*Urocystis pompholygodes* (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 697, 1864 [Bot. Zeitung 22: 175, 1864; Hedwigia 3: 75, 1864], nom. inval. (Art. 35.1).

≡ *Caeoma pompholygodes* Schltdl., Linnaea 1: 248 (1826).

≡ *Urocystis pompholygodes* (Schltdl.) A.A. Fisch. Waldh., Byull. Mosk. Obsch. Ispyt. Prir. 40: 257, 1867.

= *Urocystis anemones* (Pers.) G. Winter, Hedwigia 19: 160, 1880.

Notes: This is an invalid combination published on the label of Fungi Eur. Exs. 697 (fig. 119).

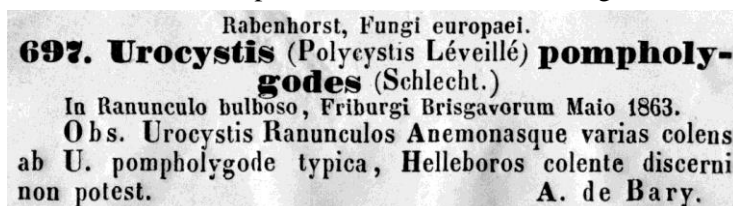


Fig. 119

*Tilletia caries* var. *agrostidis* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 700, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 75, 1864].

≡ *Erysibe sphaerococca* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 213, 1833.

≡ *Uredo sphaerococca* (Wallr.) Rabenh., Deutschl. Krypt-Fl. **1** (Pilze): 4, 1844.

≡ *Tilletia sphaerococca* (Wallr.) A.A. Fisch. Waldh., Byull. Mosk. Obshch. Ispyt. Prir. **40**: 255, 1867.

Notes: This is a validly published new variety name, based on *Erysibe sphaerococca*. This variety was introduced with a reference to the latter name as basionym, see Rabenh., Fungi Eur. Exs. 700 (fig. 120). Fischer von Waldheim (l.c.) introduced the name *Tilletia sphaerococca* as “(Rabenh.)” (this is a reference to *Uredo sphaerococca* (Wallr.) Rabenh. and thus an indirect reference to *Erysibe sphaerococca* Wallr. as basionym.

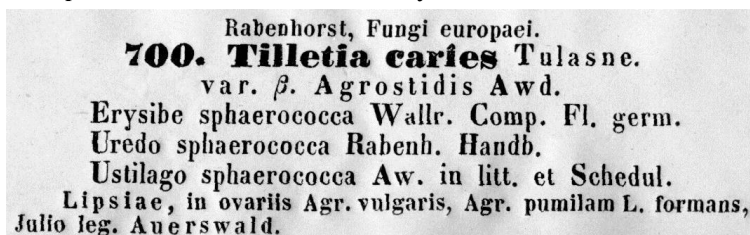


Fig. 120

## Cent. 8

*Polyporus osseus* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 706, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865; Mathem. Természettud. Közlem. **3**: 217, 1865].

≡ *Osteina obducta* (Berk.) Donk, Schweiz. Z. Pilzk. **44**: 86, 1966.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 706 (fig. 121).

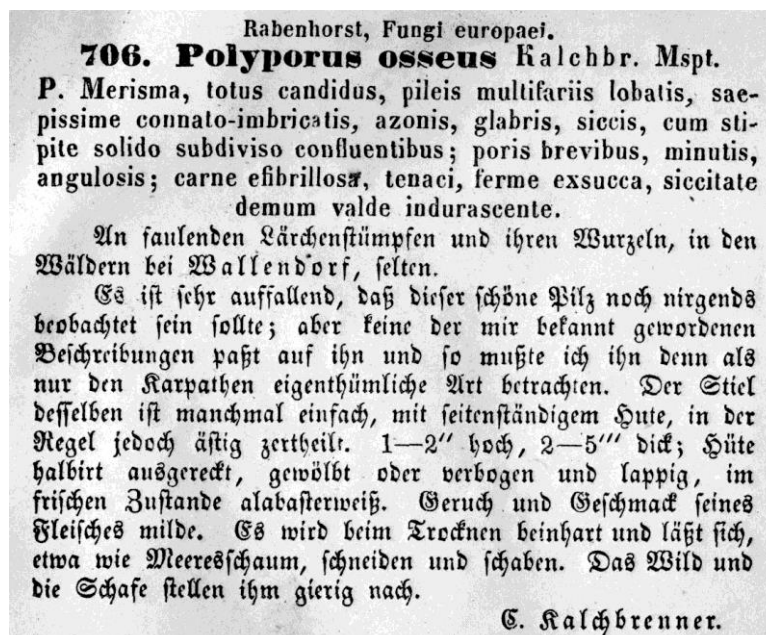


Fig. 121

*Pyronema marianum* var. *ochraceum* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 708, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 708 (fig. 122).

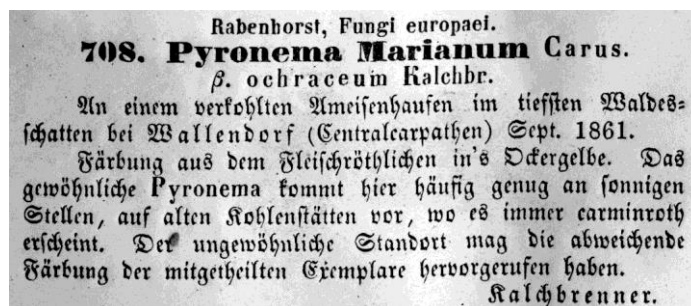


Fig. 122

*Boletus fusipes* Heufl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 712, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 142, 1865].

= *Suillus placidus* (Bonord.) Singer, Farlowia **2**(1): 42, 1945.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 712 (fig. 123).

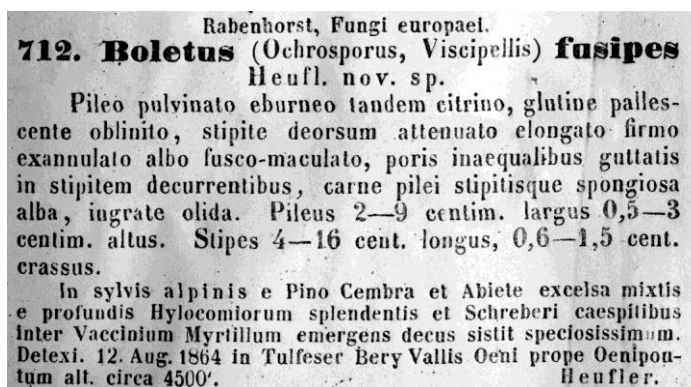


Fig. 123

*Helotium rubi* (Lib.) Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 717, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 143, 1865].

≡ *Patellaria rubi* Lib., Pl. crypt. Arduenna, fasc. (Liège) **3**(nos 201-300): no. 231, 1834.

≡ *Pezicula rubi* (Lib.) Niessl, in Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 22: no. 2122, 1876.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 717 (fig. 124).

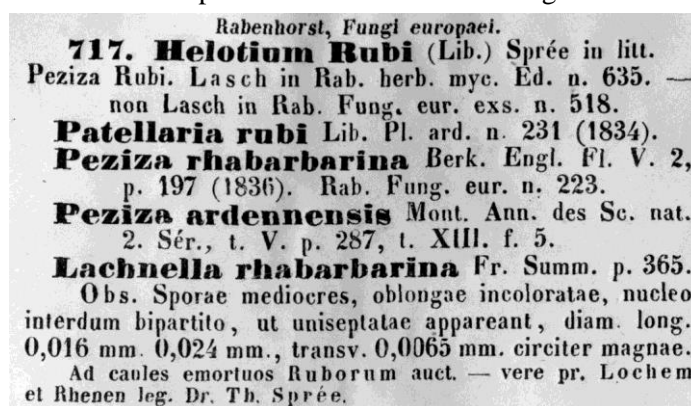


Fig. 124

*Wuestneia monadelpha* (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 734, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 143, 1865].



≡ *Sphaeria monadelpha* Fr., Syst. mycol. (Lundae) 2(2): 382, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 734 (fig. 125).



Fig. 125

*Wuestneia sphinctrina* (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 735, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 143, 1865].

≡ *Sphaeria sphinctrina* Fr., in Kunze & Schmidt, Mykologische Hefte (Leipzig) 2: 48, 1823 [: Fr., Syst. mycol. (Lundae) 2(2): 400, 1823].

≡ *Valsa sphinctrina* (Fr.) Fr., Summa veg. Scand., Sect. Post. (Stockholm): 412, 1849.

≡ *Lopadostoma sphinctrinum* (Fr.) P.M.D. Martin, J. S. Afr. Bot. 35: 400, 1969.

≡ *Sphaeria dryophila* Curr., Trans. Linn. Soc. London 22: 269, 1859, nom. illeg. (Art. 53.1), non Schwein., 1832.

≡ *Anthostoma dryophilum* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) 1: 308, 1882.

≡ *Diatrype dryophila* (Sacc.) Sacc., Syll. fung. (Abellini) 1: 308, 1882.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 735 (fig. 126). The valid name *Sphaeria sphinctrina* Fr. has priority for the species concerned. This is a sanctioned name and therefore not illegitimate as homonym of *Sphaeria sphinctrina* Sowerby, 1803.

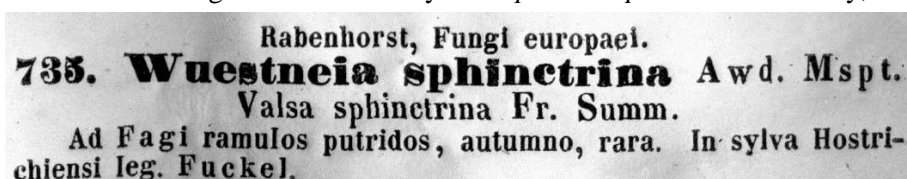


Fig. 126

*Sphaeria juncina* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 748, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 154, 1865].

≡ *Phaeosphaeria juncina* (Auersw.) L. Holm, Symb. Bot. Upsal. 14(3): 127, 1957.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 748 (fig. 127).

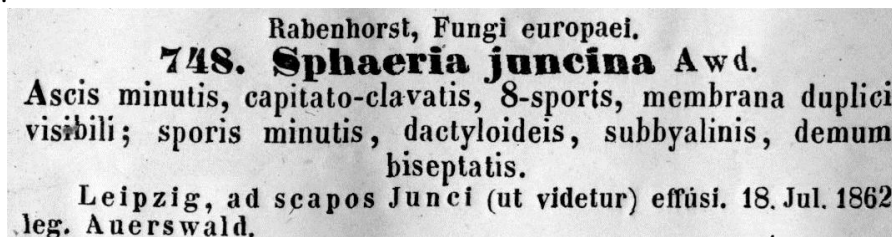


Fig. 127

*Rosellinia thelena* (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 757, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 154, 1865].

≡ *Sphaeria thelena* Fr., in Kunze & Schmidt, Mykologische Hefte 2: 36, 1823 [: Fr., Syst. mycol. 2(2): 441, 1823].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 757 (fig. 128).



Fig. 128

*Cucurbitaria rabenhorstii* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 758, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 155, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 758 (fig. 129).

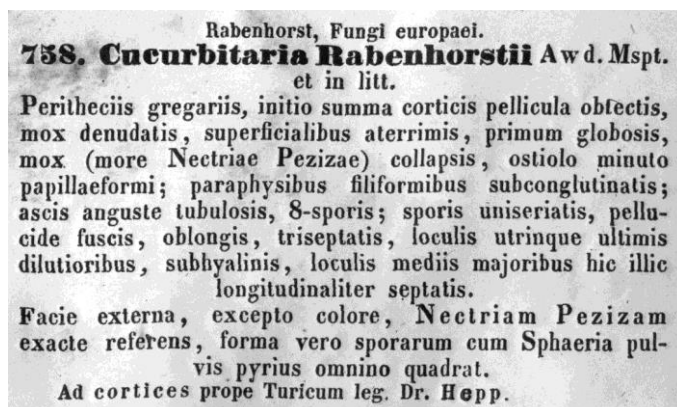


Fig. 129

*Pleospora herbarum* f. *lychnidearum* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 768, 1865 [Bot. Zeitung **23**: 251, 1865].

Notes: This is a validly published forma with a description on the label of Fungi Eur. Exs. 768 (fig. 130).



Fig. 130

*Septonema concentricum* Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 777, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 155, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 777 (fig. 131).

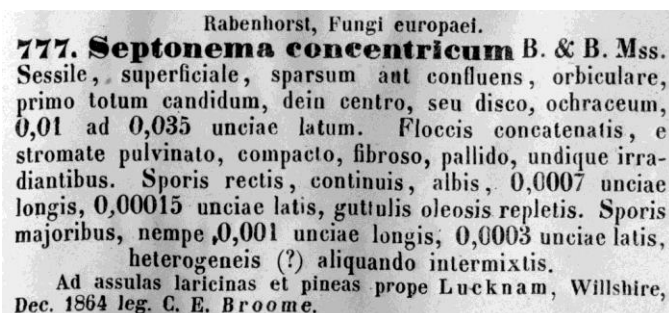


Fig. 131

*Ascobolus depauperatus* Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 780, 1865 [Bot. Zeitung **23**: 252, 1865; Hedwigia **4**: 156, 1865; Ann. Mag. Nat. Hist., Ser. 3, **15**: 448, 1865].

≡ *Saccobolus depauperatus* (Berk. & Broome) E.C. Hansen, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn **59**: 293 [1876] 1877.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 780 (fig. 132).

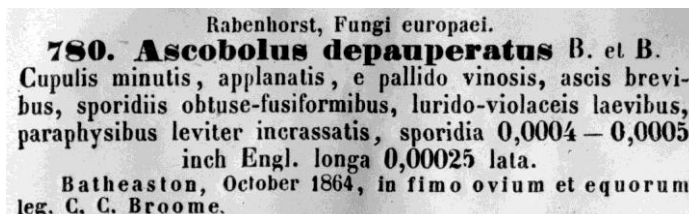


Fig. 132

*Oidium succisae* Karl, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 791, 1865 [Bot. Zeitung **23**: 252, 1865], nom. nud.

= *Podosphaera dipsacacearum* (Tul. & C. Tul.) U. Braun & S. Takam. [as “*dipsacearum*”], Schlechtendalia **4**: 28, 2000.

Notes: The duplicate deposited at HAL has been re-examined and turned out to be *Podosphaera dipsacacearum* (conidia in chains with crenate outline).

## Cent. 9

*Valsa megas* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 815, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

Notes: This is a validly published species with a brief diagnosis on the label of Fungi Eur. Exs. 815 (fig. 133), comparing *V. megas* with *V. turgida* (Pers.) Fr.

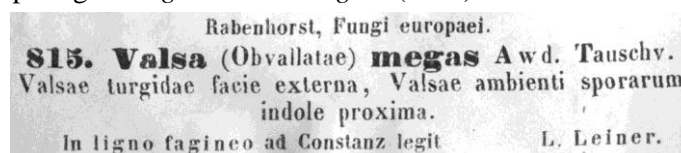


Fig. 133

*Mamiania ciliata* (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 816, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

≡ *Sphaeria ciliata* Pers., Observ. mycol. (Lipsiae) **2**: 67 [1799] 1800.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 816 (fig. 134).

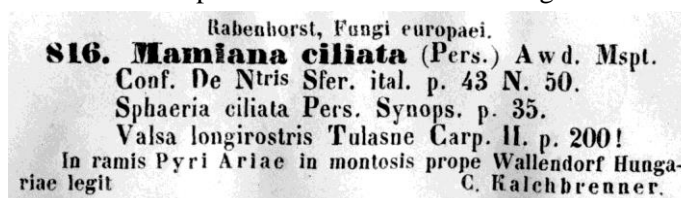


Fig. 134

*Valsaria taleola* (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 821, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

≡ *Sphaeria taleola* Fr., Syst. mycol. (Lundae) **2**(2): 391, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 821 (fig. 135).

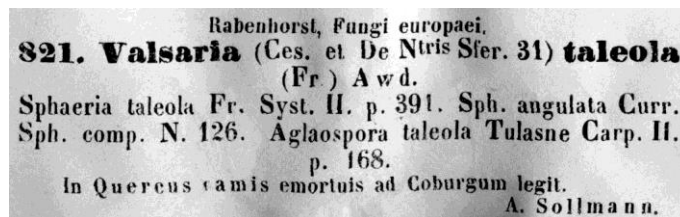


Fig. 135

*Rhaphidospora oenotherae* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 823, 1865 [Bot. Zeitung **23**: 288, 1865], nom. nud.

≡ *Rhaphidospora oenotherae* Auersw., in Zopf & Sydow, Mycoth. March., Cent. 1: no. 79, 1880.

Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 823, see fig. 136) introduced this name without any description, but with a reference to "*Sphaerolina xantholeuca* (Kunze) Fuckel, Jahrb. Nassauischen Vereins Naturk. **15**: 77, 1860" (excl. syn.). However, this cannot be seen as reference to a previous description since Fuckel (l.c.) does not contain any description.

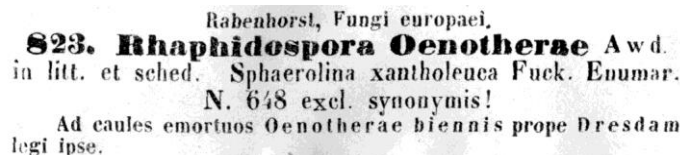


Fig. 136

*Sphaerella suspecta* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 833, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 833 (fig. 137).



Fig. 137

*Capnodium corni* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 835, 1865 [Bot. Zeitung **23**: 288, 1865].

Notes: This is a validly published species with a diagnosis on the label of Fungi Eur. Exs. 835 (fig. 138).

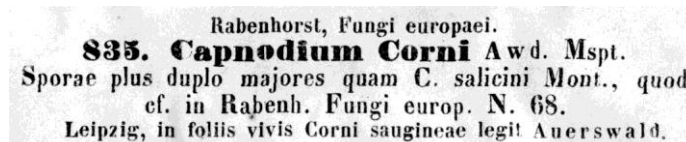


Fig. 138

*Asteroma hyperici* Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 836, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 836 (fig. 139).

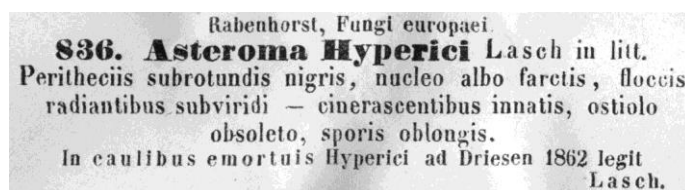


Fig. 139

*Sphaerella cinerascens* Rabenh. (as “(Fuckel) Rabenh.”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 845, 1865 [Bot. Zeitung **23**: 288, 1865].

= *Sphaeria cinerascens* Fuckel, Fungi Rhen. Exs., Fasc. 9: no. 824, 1863, nom. illeg. (Art. 53.1), non Schwein., 1832.

= *Venturia inaequalis* (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. **3**: no. 261, 1875.

Notes: This is a new name based on *Sphaeria cinerascens* Fuckel, 1863, non Schwein., 1832 (fig. 140).



Fig. 140

*Peronospora filicum* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 848, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.

Notes: This species was published without any description. A downy mildew is not present in the original material, but the rust *Hyalopsora aspidiotus* (Peck) Magnus has been found (see Constantinescu 1991).

*Septoria badhami* var. *fraxini* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 852, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.

= *Septoria badhami* var. *fraxini* Auersw. ex Sacc., Syll. fung. **3**: 495, 1884.

= *Septoria fraxini* Desm., Pl. Crypt. Nord France, Edn 1, 1: no. 1086, 1840, nom. illeg. (Art. 53.1), non (DC.) Fr., 1829.

Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 852, see fig. 141) failed to give a diagnosis or description for var. *fraxini*, and there is no reference to the name *Septoria fraxini* Desm., which was later added as synonym by Saccardo (1884: 495).

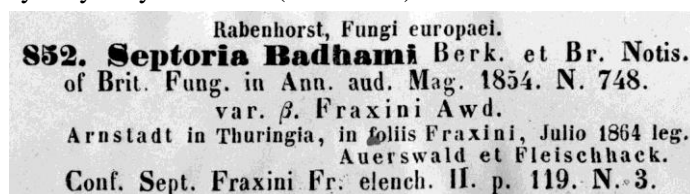


Fig. 141

*Septoria euphorbiae* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 854, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 854 (fig. 142).

Rabenhorst, Fungi europaei.  
**854. Septoria Euphorbiae** Kalchbr.  
 Sporidiis tenuissimis, flexuosis, granulosi!  
 In foliis Euphorbiae sylvaticae, autumnno legit  
 C. Kalchbrenner.

Fig. 142

*Libertella punicea* Hoffm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 861, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 861 (fig. 143).

Rabenhorst, Fungi europaei.  
**861. Libertella punicea** (Hoffm.).  
 Forma quaedam spermogonifera, ab affinis colore puniceo  
 et spermatis minutissimis sat diversa!  
 Giessen, in quercibus americanis horti botanici legit  
 H. Hoffmann.

Fig. 143

*Lamyella nigra* Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 868, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 868 (fig. 144).

Rabenhorst, Fungi europaei.  
**868. Lamyella** Fries. S. v. S. p. 410.  
 Ch. gen. emend.: Conceptaculum parvum erumpens globulare, subgelatinosum, loculosum; loculamentis intus hyphis virgato-ramosis vestitis; sporis subtilissimis, apicibus ramulorum innatis, ex ostiolis minutissimis globuli gelatinosi instar prorumpentibus; mycelio intra corticem repente.  
**Lamyella nigra** Bonord.  
 Syn. Sphaeria sphaerocephala? Fr. Syst. II. p. 497.  
 Conceptaculis nigris rotundatis, intus hyalinis griseis epidermide cinctis; loculamentis difformibus numerosis; ostiolis minutissimis globosis; sporis minimis hyalinis oblongo-cylindricis.  
 Hab. in ramis junioribus Mori albae et nigrae in Guestphalia C. Bonorden.  
 Anmerk. Das Conceptaculum besteht aus kleinen eckigen Zellen, enthält keine besonderen Perithezien, sondern nur Loculamente, welche mit ruthenförmigen, kurzen, sehr feinen Hyphen ausgekleidet sind.

Fig. 144

*Helminthosporium salisburiae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 875, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 875 (fig. 145).

Rabenhorst, Fungi europaei.  
**875. Helminthosporium Salisburiae**  
 Rabenh. Mspt.  
 Hyphae torulosae, diam.  $\frac{2}{17} - \frac{1}{85}$  mm. =  $\frac{4}{91} - \frac{1}{419}$ '''  
 modo regulariter articulatis (articulis diam. 2—3 plo longioribus), modo irregulariter articulatis (articulis diam. ad 30 plo longioribus), luteo-fuscis, in caespites minutos olivaceo-atros aggregatis, sporis initio ovoideis hyalinis bi-guttatis, postea majoribus, bi-triseptatis, fusciscentibus.  
 In Salisburia adiantifolia in horto arcis prope Salem legit Jack.

Fig. 145



*Phyllosticta coluteae* Fiedler, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 877, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865], nom. nud.

Notes: This name was introduced as spermatial morph of “*Sphaeria coluteae* Rabenh.” but without any description or diagnosis (fig. 146). Spermogonia and immature mycosphaerella-like ascomata are present in the original material (see van der Aa & Vanev 2002: 156).

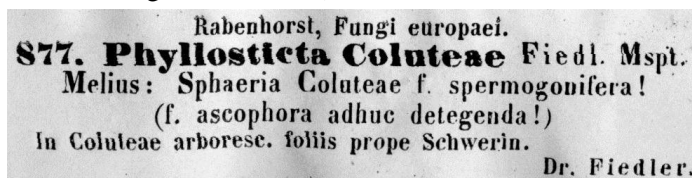


Fig. 146

## Cent. 10

Notes: Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10, 1866 is lacking at HAL. Therefore, copies of the labels concerned have been prepared on the basis of duplicates deposited in the herbaria in Berlin (B) and München (M).

*Peziza delitschiana* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 912, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Coronellaria delitschiana* (Auersw.) P. Karst., Not. Sällsk. Fauna Fl. Fenn. Förh. **11**: 248, [1871] 1870.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 912 (fig. 147).



Fig. 147

*Peziza carestiana* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 913, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Unguicularia carestiana* (Rabenh.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **118**: 391, 1909.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 913 (fig. 148).



Fig. 148

*Sporormia fleischhakii* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 921, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Gnomonia fleischhakii* (Auersw.) Auersw., in Gonnermann & Rabenhorst, Myc. Europ. Pyren. 5-6: 26, 1869.

≡ *Preussia fleischhakii* (Auersw.) Cain, Canad. J. Bot. 39: 1640, 1961.

≡ *Diaporthe fleischhakii* (Auersw.) M. Monod, Beih. Sydowia 9: 219, 1983.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 921 (fig. 149).

Rabenhorst, Fungi europaei.  
**921. Sporormia Fleischhakii** Awd.  
 in litt. et sched.  
 Pyrenia sparsa v. gregaria, carbonacea, tenuia, fragilia, nitidula, globosa v. hemisphaerica, pleraque absque ullo ostiolo, variae magnitudinis,  $\frac{1}{5}$  –  $\frac{1}{2}$  millim. æquantibus; ascis creberrimis, obovatis v. subglobosis tenerimis, stipitatis, 8-sporis; sporularum catenis densissime parallele stipatis, trameris, sed facillime diffluentibus.  
 Hungaria, in lignis putrescentibus rejectamentorum leg.  
 C. Kalchbrenner.

Fig. 149

*Nectria rosellinii* Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 923, 1866 [Bot. Zeitung 24: 299, 1866; Hedwigia 5: 190, 1866].

≡ *Thyronectria rosellinii* (Carestia) Jaklitsch & Voglmayr, Persoonia 33: 204, 2014.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 923 (fig. 150).

Rabenhorst, Fungi europaei.  
**923. Nectria Rosellinii** Carest. in litt.  
 Pyrenia obovata, collabescentia, in vivo vitellino-coccinea, lævia; contextu minute vesiculoso. — Asci polyspori (?specim. immatur.), cylindricei, apice rotundato,  $\frac{3}{5}$  –  $\frac{4}{5}$  millim. longi,  $\frac{5}{8}$  –  $\frac{5}{10}$  millim. lati. — Paraphyses gelatinosæ, crassiusculæ, filiformes. — Quadantenus refert N. decolorantem.  
 Riva: 1864. In ramis Abietis pectinatae dejectis leg.  
 Abb. Carestia.

Fig. 150

*Rosellinia obliquata* (Sommerf.) Rabenh., Bot. Zeitung 24: 299, 1866.

≡ *Sphaeria obliquata* Sommerf., Suppl. Fl. lapp. (Oslo): 213, 1826.

Notes: This is a valid combination published by Rabenhorst in Bot. Zeitung 24: 299, 1866, with reference to Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 926, 1866. However, no. 926 occurs twice in Hedwigia on page 299, but in the exsiccata, no. 926 contains *Pleosporopsis strobilorum* (fig. 151). Therefore, the combination *Rosellinia obliquata* was first published in Rabenhorst's publication in Botanische Zeitung, 1866.

Rabenhorst, Fungi europaei.  
**926. Pleosporopsis strobilorum** Oerst.  
 Bidrag til Svampenes Udviklingshist. in Naturh. Foren. Vidensk. Meddelelser 1865 p. 28 Tab. V. et VI.  
 In squamis strobilorum Pini montanae ad Hafniam leg.  
 A. S. Oersted.

Fig. 151

*Gnomonia fimbriata* (Pers.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 928, 1866 [Bot. Zeitung 24: 299, 1866; Hedwigia 5: 190, 1866].

≡ *Sphaeria fimbriata* Pers., Observ. mycol. (Lipsiae) 1: 70, 1796 [: Fr., Syst. mycol. 2(2): 436, 1823].

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 928 (fig. 152).

Rabenhorst, Fungi europaei.

**928. Gnomonia fimbriata Awd.**

*Sphaeria fimbriata* Pers., Fr. syst. II. p. 436 cum synonymis. *Mamiania fimbriata* Ces. & DeNot. Schem. Sf. p. 37! *Pyrenia sparsa* v. *conferta* epidermide nigresceta tecta, libera, neutiquam in stroma connata v. stromate tecta, ut ell. Ces. et DeN. opinati videatur, qui *Gnomoniam* typicam inter *Mamianas* suas (*Valsarias* meas) e grege *Valsacearum* enumeraverunt. — Asci tenerrimi clavati 8-spori, sporis biserialibus hyalinis lacrymaeformibus, apicem versus, uniseptatis.

Fig. 152

*Valsaria bitorulosa* (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 932, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 190, 1866].

≡ *Valsa bitorulosa* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 3, **3**: 367, 1859.

≡ *Melanconis chrysostroma* (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 125, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 932 (fig. 153).

Rabenhorst, Fungi europaei.

**932. Valsaria bitorulosa (Berk. et Br.)**

De Ntrs.

*Valsa bitorulosa* Berk. et Br. Brit. Fung. N. 861.

T. X. F. 15.

Ad Carpini Betuli ramos. Stighgate, London, leg. 1866  
M. C. Cooke.

Fig. 153

*Valsaria stilbostoma* (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 933, 1866 [Bot. Zeitung **24**: 299, 1866].

≡ *Sphaeria stilbostoma* Fr., K. Svenska Vetensk-Akad. Handl., Ser. 3, **39**: 102, 1818 [: Fr., Syst. mycol. **2**(2): 403, 1823].

≡ *Melanconis stilbostoma* (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 115, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 933 (fig. 154).

Rabenhorst, Fungi europaei.

**933. Valsaria stilbostoma Awd.**

Monogr. ined. *Sphaeria stilbostoma* α) papula Fr. syst. II. p. 404. Klotzschii herb. mycol. N. 159! *Sphaeria stilbostoma* Fr. Scler. succ. N. 145! *Valsa stilbostoma* Fr. Summ. p. 412. *Pseudovalsa* Ces. et DeN. schem. Sfer. p. 32. *Melanconis stilbostoma* Tul. Carp. II. p. 119.  
T. XIV. F. 1—12.

Schaffhausen, ad Betulae ramos leg. Schenk.

Fig. 154

*Ptilidium fuliginosum* (Pers. : Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 938, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria fuliginosa* Pers., Observ. mycol. (Lipsiae) **2**: 68, 1800 [: Fr., Syst. mycol. **2**(2): 423, 1823].

≡ *Tympanis fuliginosa* (Pers.) Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 429, 1833.

≡ *Godronia fuliginosa* (Pers.) Seaver, Mycologia **37**(3): 344, 1945.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 938 (fig. 155).

Rabenhorst, Fungi europaei.  
**938. *Pilidium fuliginosum*** Awd. Mpt.  
*Tympanis fuliginosa* Wallr. Comp. II. p. 429. *Pilidium*  
*carbonaceum* Lib. sec. B. B. n. 442. (nomen ineptum,  
 quum peridium minime carbonaceum, imo membranaceum!)  
*Ascis* nullis (!), sporidiis fusiformibus, 3-septatis, hyalinis,  
 plus minusve curvulis. *Sphaeria fuliginosa* P. syn. p. 52!  
 Fr. syst. II. p. 423; Rabenh. herb. myc. ed I. n. 1240.  
*Cenangium fuliginosum* Fr. S. Veg. Sc. p. 364. (cf. Fr.  
 El. I. p. 86, ubi cl. Fries *Cenangii* naturam opinatur.  
 Monasterii in ramis Salicis fragilis, April 1864. leg.  
 Nitschke.

Fig. 155

*Hendersonia mori* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 939, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 939 (fig. 156).

Rabenhorst, Fungi europaei.  
**939. *Hendersonia Mori*** Kalchbr.  
*Pyreniis* minutis dense gregariis, sporidiis oblongis,  
 quadrilocularibus (loculo secundo plerumque transversim  
 septato), ad dissepimenta haud constrictis, fusciculis hya-  
 linis. — In ramulis Mori gelu necatis ad pagum Haraslocz  
 Scepusii.  
 Ist nicht etwa eine weiter entwickelte *Diplodia Mori*, wie  
 ich anfänglich vermuthete. Diese findet sich gleichzeitig mit ihr  
 an den dickeren Zweigen, hat aber größere, stets nur zweifach-  
 merige, im Alter sehr dunkle, fast undurchsichtig werdende Sporen,  
 während die unseres Pilzes kleiner, schlanker, vierzellig, stets  
 hellbraun und durchsichtig sind.

Fig. 156

*Sphaerella buxi* Auersw. (as "(Desm.) Auersw."), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 940, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria buxi* Desm., Ann. Sci. Nat., Bot., Sér. 2, **19**: 354, 1843, nom. illeg. (Art. 53.1), non (Alb. & Schwein.) DC. 1815.

Notes: *Sphaerella buxi* is a validly published new name based on *Sphaeria buxi* Desm., non (Alb. & Schwein.) DC. 1815 (fig. 157).

Rabenhorst, Fungi europaei.  
**940. *Sphaerella Buxi*** Awd.  
*Sphaeria Buxi* Dmz. Ann. sc. nat. 2. XIX. p. 354, nec  
 DeC. Crypt. de Fr. ed I. N. 1280. Paraphysibus nullis;  
*ascis* clavatis 8-sporis, membrana duplici non visibili; sporis  
 incumbenti-biseriatis, oblongis, monoblastis, lutescentibus;  
 nucleolis 2—3 variæ magnitudinis.  
 Leipzig, ad folia Buxi sempervirentis adhuc virentia.  
 1. Oct. 1865, leg. Auerswald.

Fig. 157

*Sphaerella ditricha* (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 943, 1866 [Bot. Zeitung **24**: 300, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria ditricha* Fr., Syst. mycol. (Lundae) **2**(2): 515, 1823.

≡ *Venturia ditricha* (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk **23**: 188, 1873.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 943 (fig. 158).

Rabenhorst, Fungi europaei.

**943. *Sphaerella ditricha* Awd.** in litt. et Mspt. *Sphaeria ditricha* Fr. syst. II. 515; Scler. suec. n. 54! *Vermicularia ditricha* Fr. S. Veg. Sc. *Sphaeria chlorospora* Ces. in Rbh. f. eur. 48. c. ic! *Sphaerella chlorospora* Ces. et De Not. Schem. 65; De Not. Sfer. it. N. 97! *Sphaeria cinerascens* Fuck f. rhen. 824! *Sphaerella cinerascens* Rbh. f. eur. n. 848. Ascis paraphysibus obval-latis, sessilibus, basi ventricose inflatis, apicem versus angustatis, octosporis; sporis in superiore asci parte uni-seriatis, in inferiore biserialiter stipatis, chlorino-fuscis, pellucidis, subbiscoctiformibus (more Buelliarum), medio vel plus minusve extra medium uniseptatis.

Die Pyrenien zeigen bald an ihrem Scheitel einige Haare, bald sind sie kahl; selbst Gefati zeichnet (cf. fung. eur. n. 48) dieselben mit Haaren, während De Not. Sf. it. n. 97 die Pyrenien vollkommen kahl zeichnet. Die, wie es scheint, ziemlich verbreitete Art variiert sehr in der Lage der Scheidewand: auf Birkenblättern sah ich dieselbe ziemlich regelmäßig in der Mitte; auf den Blättern von *Salix alba* (*Sph. chlorospora*) zeigt sich bereits die Neigung, die Mitte zu verlassen und die schon hier und da etwas kürzere Hälfte wird etwas breiter als die längere; auf den Blättern von *Sorbus Aria* (*Sph. cinerascens*) und *Fraxinus* tritt dieses Verhältniß noch weit unterschiedener hervor, weil hier die Scheidewand die Mitte ganz deutlich verlassen hat; die kürzere Sporenhälfte scheint auf der längeren wie eine Nüßle zu sitzen.

Auf diese in einander übergehenden Formen (die *S. chlorospora* zeigt am deutlichsten den Uebergang) eigene Arten zu begründen, erscheint mir mehr als unräthlich; es müßten denn mit ungleich größerem Rechte die sämmtlichen Formen der *Sphaerella maculaeformis* zu Arten erhoben werden u. s. w.

Aueröwald.

NB. Gefati hat auf der Etiquette zu seiner *Sphaeria chlorospora* die Schläuche verkehrt gezeichnet, d. i. den dicken Theil nach oben statt nach unten!

In fol. siccis *Fraxini foliis crispatis*, in hortis ad Münster, autumnno 1863 leg. Nitschke.

Fig. 158

*Sphaerella errabunda* (Roberge ex Desm.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 944, 1866 [Bot. Zeitung 24: 307, 1866; Hedwigia 5: 192, 1866].

≡ *Sphaeria errabunda* Roberge ex Desm., Ann. Sci. Nat., Bot., Sér. 3, 10(2): 355, 1848.

≡ *Apiognomonium errabunda* (Roberge ex Desm.) Höhn., Ann. Mycol. 16(1/2): 51, 1918.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 944 (fig. 159).

Rabenhorst, Fungi europaei.

**944. *Sphaerella errabunda* Awd.**

*Sphaeria errabunda* Rob. in Dmz. Cr. de Fr. ed. II. N. 1441! Ascis saccato-clavatis 8-sporis, sporis ovalibus, utrinque rotundatis, uniseptatis, septo excentrico, ad quin-tam fere partem sporarum posito. Simillima *Sphaerellæ sus-pectæ* Awd., sed differt sporis obtusatis, quæ in illa acutæ.

Im Parenchym der Buchenblätter, mit der Lupe erst sichtbar werdend, wenn man die Blätter gegen das Licht hält.

Aueröwald.

Arnstadt in Thüringen, Juni 1865. leg.

Dr. Fleischhäf.

Fig. 159

*Sordaria macrospora* Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 954, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 954 (fig. 160).



Fig. 160

*Sphaeropsis ilicis* (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 956, 1866 [Bot. Zeitung **24**: 307, 1866].

≡ *Xyloma ilicis* Schleich., Cat. pl. Helv.: 84, 1821, nom. illeg. (Art. 53.1), non Fr., 1818.

≡ *Sphaeria ilicis* Fr. (as "(Schleich.) Fr."), Syst. mycol. (Lundae) **2**(2): 501, 1823, non *Phyllosticta ilicis* (Desm.) Allesch., 1898.

= *Phyllosticta philoprina* (Berk. & M.A. Curtis) Wikee & Crous, Stud. Mycol. **76**: 23, 2013.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 956 (fig. 161).

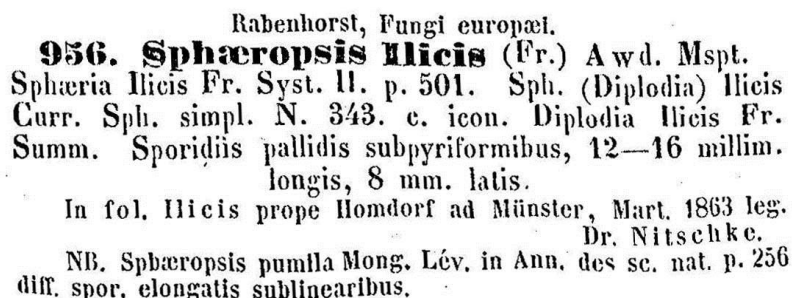


Fig. 161

*Phoma miribelii* (Fr.) Auersw. (as "*miribelii*") , Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 958, 1866 [Bot. Zeitung **24**: 307, 1866].

≡ *Sphaeria miribelii* Fr., Linnaea **5**: 548, 1830.

≡ *Sphaeropsis miribelii* (Fr.) Lév., Ann. Sci. Nat., Sér 3, **5**: 296, 1846.

= *Guignardia miribelii* Aa, Persoonia **8**(3): 283, 1975.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 958 (fig. 162).



Fig. 162

*Phoma dilleniana* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 960, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 960 (fig. 163).



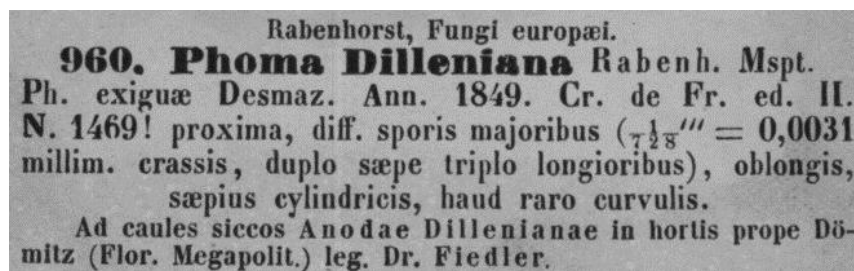


Fig. 163

*Phoma atomus* (Lév.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 961, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

≡ *Sphaeropsis atomus* Lév., Ann. Sci. Nat., Bot., Sér. 3, **9**: 257, 1848.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 961 (fig. 164).

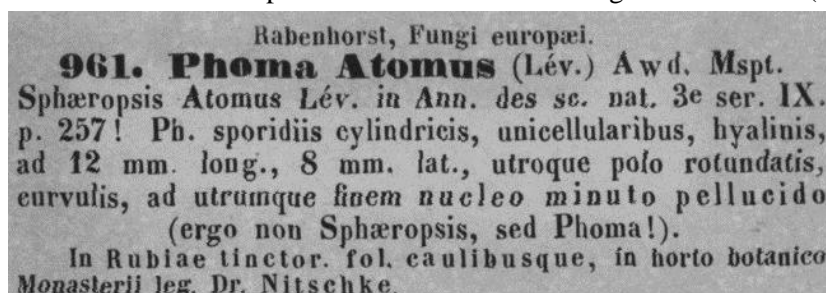


Fig. 164

*Ascobolus cesatii* Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 976, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 8, 1867].

≡ *Pezizula cesatii* (Carestia) P. Karst., Bidr. Känn. Finl. Nat. Folk **19**: 83, 1871.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 976 (fig. 165).

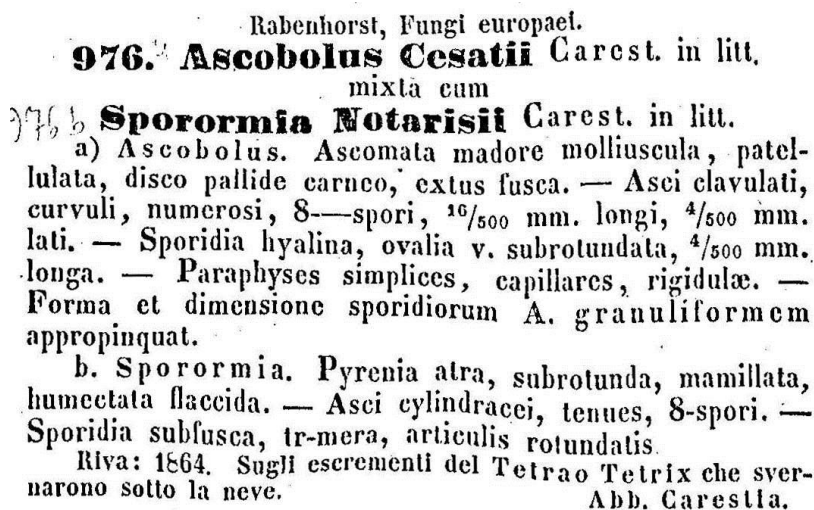


Fig. 165

*Verticillium buxi* (J.C. Schmidt ex Link) Auersw. & Fleischh., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 979, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 9, 1867].

≡ *Fusidium buxi* J.C. Schmidt ex Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 97, 1825.

≡ *Clonostachys buxi* (J.C. Schmidt ex Link) Schroers, Stud. Mycol. **46**: 193 (2001).

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 979 (fig. 166).

Rabenhorst, Fungi europaei.

**979. Verticillium Buxi** Awd. et Fleischk.

*Fusidium Buxi* Schm. *Fusisporium Buxi* Fr. Syst. ex p.  
*Fusidium Buxi* Rabenh. Handb. ex p. *Penicillium roseum*  
Berk. et Broome Brit. Fung. N. 535.

*V. hyphis fertilibus erectis, septatis, furcato — aut  
ternato — ramosis; sporis oblongis, integris, apice ramo-  
rum verticillatis.*

Lipsiae, ad folia Buxi sempervirentis in consortio omnium  
fungorum, qui apud Chaetostroma Buxi a me nominati, sed pariter  
ab his speciminibus remoti sunt. Auerswald.

Fig. 166

*Sciniatosporium lycii* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 985, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 9, 1867].

≡ *Stigmina lycii* (Kalchbr.) B. Sutton, Trans. Brit. Mycol. Soc. **58**(1): 166, 1972.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 985 (fig. 167).

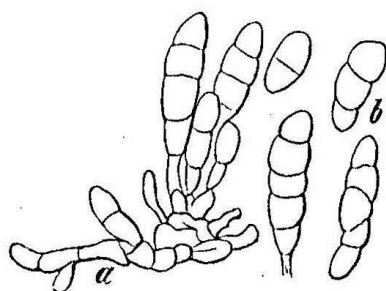
Rabenhorst, Fungi europaei.

**985. Sciniatosporium Lycii** Kalchbr.

Stroma, — sub epidermide decolorata, tuberculoso inflata  
et demum rima longitudinali hiant, — circumscriptum vel  
confluendo subellusum, planum, centro nonnisi tuberculato-  
elevatum, carneo-rubellum, carnosum fibrosum, fibris  
solidis, septatis, dense contextis. — Sporidia oblonga,  
plurilocularia, ad septa parum constricta, stipite brevi, va-  
lido, sporophoris adnata, fusca, diaphana, caespites nigri-  
cantes effusos formantia. — In ramulis junioribus Lycii,  
europaei, gelu necatis, prope Harakocz Scepusii. Vere.

C. Kalchbrenner.

Wenn ich nicht irre, hat Herr G. v. Niesl denselben Pilz  
in seinem „Pilze und Myxomyceten Mährens“ als *Sporides-  
mium* beschrieben und abgebildet. Die Rechtfertigung meiner  
Ansicht und meiner anderweitigen Beobachtungen über den ge-  
netischen Zusammenhang der auf *Lycium* wachsenden Pilze werde  
ich wohl später in der „Hedwigia“ geben können. G. K.



a. Fibræ stromatis. b. Sporæ.

Fig. 167

*Dicaeoma prunorum* (Link) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 990, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 10, 1867].

≡ *Puccinia prunorum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 82, 1825.

= *Tranzschelia pruni-spinosae* (Pers.) Dietel, Ann. Mycol. **20**(1/2): 31, 1922.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 990 (fig. 168).

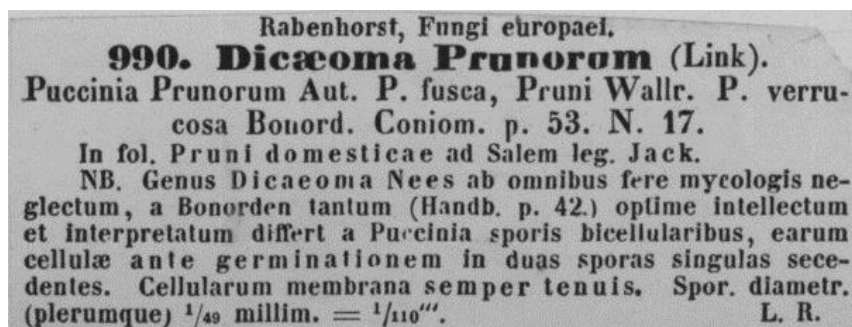


Fig. 168

*Puccinia reticulata* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 993, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 10, 1867].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 993 (fig. 169).

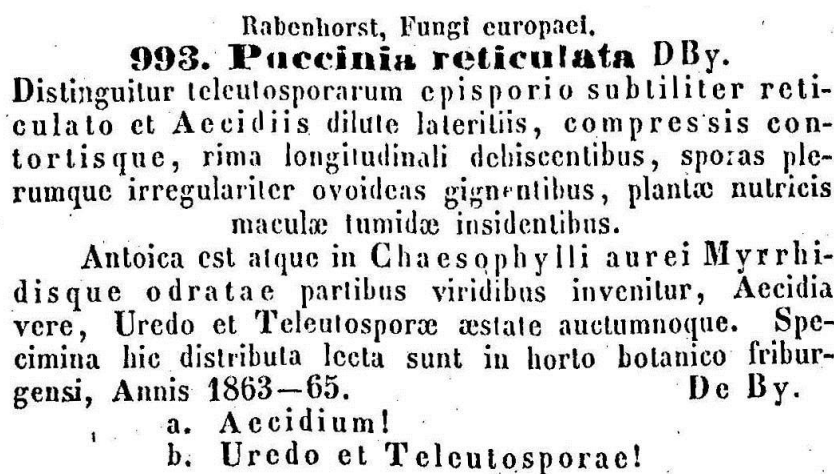


Fig. 169

*Puccinia prenanthis-tenuifoliae* Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 996, 1866 [Bot. Zeitung **24**: 308, 1866], nom. nud.

*Uromyces leguminosarum* (Rabenh.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung **24**: 308, 1866].

≡ *Caeoma leguminosarum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 61, 1825, nom. illeg. (Art. 53.1), non *Caeoma leguminosarum* (Link) Schldl., 1824.

≡ *Uredo leguminosarum* Rabenh., Deutschl. Krypt.-Fl. (Leipzig) **1**: 27, 1844.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 998 (fig. 170).

*Uromyces leguminosarum* f. *cytisi* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung **24**: 308, 1866].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 998 (fig. 170) as substrate (host) forma.



Fig. 170

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Jahr/Year: 2019

Band/Volume: [36](#)

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

Artikel/Article: [Annotated list of taxonomic novelties published in "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 \(first part – Cent. 1 to 10\) 1-60](#)