REINWARDTIA

BEING A CONTINUATION OF THE

BULLETIN DU JARDIN BOTANIQUE DE BUITENZORG (BULLETIN OF THE BOTANIC GARDENS, BUITENZORG)

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Published by HERBARIUM BOGORIENSE KEBUN RAYA INDONESIA REINWARDTIA [VOL. 4

FIG 1. Iehthyodontum sachlanii Scott & Prescott, gen. et sp. nov.; 2. Ichthyodontum sachlanii var. parorthium Scott & Prescott var. nov.;; 3-5. Dichotypical specimens combining the species and the variety; 6. 7. sachlanit. Front, side and basal views of a semicell; 7. idem. Larger detail of the polar structure.

AMS

THE GENERIC NAMES PROPOSED FOR HYMENOMYCETES—VI*

Brachybasidiaceae, Cryptobasidiaceae, Exobasidiaceae

M. A. DONK **

SUMMARY

1. In this continuation of the author's nomenclatorial enumeration not only the three families mentioned in the subtitle are taken into consideration: about ten generic names of fungi which at one time or another have been attributed to the Exobasidiaceae and which are now excluded from the Hymenomycetes, are also dealt with.

2, The name' Cryptobasidiaceae is validly published.

INTRODUCTION.—This paper forms the sixth of a series planned to give an annotated nomenclatorial enumeration of all generic names proposed for Hymenomycetes. For some introductory remarks to the series and the explanation of some nomenclatorial terms, see Part I (Donk *in* Reinwardtia 1:199-203. 1951).

The three families mentioned in the subtitle represent the strictly 'biophilous' element (strictly parasitic in herbaceous and often green portions of vascular host plants) of the holobasidious Hymenomycetes. They have sometimes been considered related to the so-called Heterobasidiae, among which the Uredinales are reminiscent as regards their parasitism. Of the families dealt below, Brachybasidiaceae is monotypic. Another, Cryptobasidiaceae, has recently been delimited and surveyed by Malençon (*in* Bull. Soc. mycol. France 69: 77-100. 1953).

The basidiomycetous nature of this latter family has been doubted, and the information furnished by Malençon would seem insufficient to accept it as being basidiomycetous for the present. That author (op. cit. p. 96) called it "Cryptobasidieae," which is inadmissible as the required termination is '-aceae.' In addition he did not supply a Latin description. Since I accept the family taxonomically, its name is validly published herewith:

^{*} Part I of the present series ("Cyphellaceae") was published *in* Reinwardtia 1: 199-220. 1951; Part II (Hymenolichenes), *in* Reinwardtia 2: 435-440. 1954; Part III ("Clavariaceae"), *in* Reinwardtia 2: 441-493. 1954; Part IV (Boletaceae), *in* Reinwardtia 3: 275-313. 1955; Part V ("Hydnaceae"), *in* Taxon 5: 69-80, 95-115. 1956. ** Formerly Keeper, Herbarium Bogoriense, Kebun Raya Indonesia.

M. A. Donk: Hymenomycetes-VI

Cryptobasidium Lendner, a synonym of Botryoconis H. & P. Syd.

Of a few genera, *Exobasidiellum* Donk and *Dicellomyces* L. S. Olive, the systematic position is as yet far from fixed. They are listed here as Exobasidiaceae because of their typically biophilous nature. Their inclusion in Dacrymycetaceae would spoil the character of an easily recognizable family!

ALPHABETICAL ENUMERATION

[Aureobasidium Viala & Boyer in Rev. gén. Bot. 3: 371. 1891. — Type species (only original species): Aureobasidium vitis Viala & Boyer. The authors regarded this as a basidiomycete and Prilleux & Delacroix (in C.R. Acad. Sci., Paris 119: 106. 1894) even included it in Exobasidium Woron. (Exobasidiaceae). It is now considered an imperfect fungus and non-basidiomycetous, and has been identified with 'Dematium pullulans De Bary' (type species of Pullularia Berkh., 1923) = Pullularia pullulans (Bary) Berkh. = Aureobasidium pullulans (Bary) Arnaud. — Chrysobasidium Clem. [in Univ. Stud. Nebraska 3 (1): 71. 1902] is a grammatical 'correction' and apparently not validly published; it was introduced thus: "Aureobasidium = Chrysobasidium"—nothing else, not even an author's citation was given. - Aureobasis Clem. & Shear (Gen. Fungi 160, 197, 343, 381, 1931) is another name change, which the authors did not consider a new name ("Aureobasis Viala & Boyer Rev. Gen. Bot. 3: 369. ill. 1891; for Aureobasidium"). — Several other type species of generic names have been identified with, or are supposed to be closely related to, Aureobasidium pullulans.]

[Aureobasis Clem. & Shear.—See Aureobasidium.]

Botryoconis H. & P. Sydow in Ann. mycol. 4: 344. 1906. — ΕΤΥΜΟLOGY: βότους, -νος, bunch of grapes; κονίς, dust. Gender: f. — TYPE SPECIES
(only original species): Botryoconis saccardoi H. & P. Syd. (Cryptobasidiaceae). — H. Sydow (in Ann. mycol. 24: 285-288. 1926, in a discussion
appended to Clinoconidium bullatum H. Syd.), after the study of several
collections, including Lendner's specimen of Cryptobasidium ocoteae
Lendn., came to the conclusion that the latter species was synonymous
with Botryoconis saccardoi, but he disagreed with another previous con-

clusion of Maublanc (in Bull. Soc. mycol. France 30: 446. 1915) that Botryoconis saccardoi was synonymous with Clinoconidium farinosum (P. Henn.) Pat.; cf. also Malençon (in Bull. Soc. mycol. France 69: 94 f. 9 A, B. 1953, as B. "Saccardiana"). — TYPONYM: Cryptobasidium Lendn. (1920).

Brachybasidium Gäum. in Ann. mycol. 20: 269. 1922. — ΕΤΥΜΟLOGY: βραχύς, short; basidium. Gender: n. — TYPE SPECIES (only original species): Kordyana pinangae Racib. (Brachybasidiaceae).

[Chrysobasidium.—See under Aureobasidium.]

1956]

Clinoconidium Pat. in Bull. Soc. mycol. France 14: 156. 1898. — ETYMOLOGY: κλίνη, bed; conidium. Gender: n. — TYPE SPECIES (only original species): Uredo farinosa P. Henn. (Cryptobasidiaceae). — Linder (in Ann. Missouri bot. Gdn 16: 343 pl. 29 fs. 15-17. 1929) identified the present species with Drepanoconis larvaeformis (Speg.) Speg. (also including Drepanoconis brasiliensis J. Schroet. & P. Henn.); but Malençon (in Bull. Soc. mycol. France 69: 94-96. 1953) keeps Clinoconidium and Drepanoconis distinct, correctly so I would say.

Coniodictyum Har. & Pat. in Bull. Soc. mycol. France 25: 13. 1909. — ETYMOLOGY: κονίς, dust; δίκτνον, network. Gender: n. — TYPE SPECIES (only original species): Coniodictyum chevalieri Har. & Pat. (Cryptobasidiaceae).—For this species, see Malençon (in Bull. Soc. mycol. France 69: 77 fs. 1-8. 1953). — VARIANT SPELLING: "Coniodyctium": Maublanc in Bull. Soc. mycol. France 30: 447. 1915; Malençon in Bull. Soc. mycol. France 69: 92. 1953.—Consistently used. — TYPONYM: Hyalodema P. Magn. (1910).

Coniodyctium.—See Coniodictyum.

Cryptobasidium Lendn. in Bull. Soc. bot. Genève II 12: 127. 1920. — ΕΤΥΜΟLOGY: κρύπτω, I hide myself; basidium. Gender: n. — TYPE SPECIES (only original species): Cryptobasidium ocoteae Lendn.

Dicellomyces L. S. Olive in Mycologia 37: 544. 1945. — ΕΤΥΜΟLOGY: δίκελλα, a two-pronged fork: μύκης, fungus. Gender: m. — TYPE SPECIES (by original designation and only original species): Dicellomyces gloeosporus L. S. Olive (Exobasidiaceae?; referred by its author to Dacrymycetaceae).

Drepanoconis J. Schroet. & P. Henn. apud P. Henn. in Hedwigia 35: 211. 1896. — ΕΤΥΜΟLΟGY: δρέπανον, sickle; κονίς, dust. Gender: f. — ΤΥΡΕ

¹ Biophilae, Exobasidiaceas simulantes, galligenae, stratum sporigenum erumpens, cellulis basidiiformis clavatis vel subcylindricis, non septatis, ad apicem sporas formantibus, sed sterigmatibus non evolutis sporisque non projectis. Sporae accumulantes, farinam conspicuam formantes, hyalinae vel subcoloratae.

of cytological investigations of the type species by Maire (in Rec. publication Occ. Jubil. Le Monnier 131-139. 1913) and Wolf (in J. Mitchell sci. Soc. 43: 97-100 pl. 4. 1927; 45: 130-136 pl. 6. 1929) proved, it would appear, that it is non-basidiomycetous and should be classed as an imperfect fungus, perhaps, as suggested by Maire, in Melanconiales (Deuteromycetes).—Clements & Shear (Gen. Fungi 343. 1931) suggested Fusisporium albumas type species. This is of course not acceptable.]

[Protocoronis Clem. & Shear.—See Protocoronospora.]

[Protocoronos pora Atk. & Edgert, in J. Mycol, 13: 185, Sept. 1907. — Type species (only original species): Protocoronospora nigricans Atk. & Edgert. Its authors did not assign it a place in the classification of fungi, but Saccardo (Svll. Fung. 21: 421, 1912) placed it near to Exobasidium Woron. (Exobasidiaceae); this disposition was, and has been, often accepted. However, after a careful morphological and cytological study, Wolf (in J. Mitchell sci. Soc. 36: 72-85, 1920) was able to demonstrate that it is an imperfect fungus. According to Karakulin (in Notul. syst. Inst. crypt. Hort. bot. petropol. 2: 101-108, 1923), Protocoronospora is congeneric with Kabatiella Bubák (in Hedwigia 46: 297, June 1907: type species, Kabatiella microsticta Bubák), Exobasidiopsis Karak. (1922), and Pachybasidiella Bubák & H. Syd. (1915). — Protocoronis Clem. & Shear (Gen. Fungi 344, 382, 1931) is an alteration of the name which the authors did not consider a name change: "Protocoronis Atkin. & Edgert, Jour. Myc. 13: 186, 1907 . . . for Protocoronospora." However, there is every reason to consider it an isonym.]

[Urobasidium Giesenh. in Flora 76: 139. 1893. — TYPE SPECIES (only original species): Urobasidium rostratum Giesenh. — The genus has been classed in Hymenomycetes, and, for instance, included in Exobasidiaceae, even in recent handbooks. However, there can be no doubt that it is an imperfect fungus, and Vuillemin (in Bull. Soc. sci. Nancy III 11: 158-169. 1910) did not hesitate to transfer it to his order of "Prophialidés" (Deuteromycetes); Mason (Annot. Acct Fungi rec'd I.M.I., List 2 (Fasc. 3): 143. 1941) included it in Zygosporium Mont., as Z. rostratum (Giesenh.) Bunting & Mason. For a recent account of the genus Zygosporium, see Hughes (in Commonw. mycol. Inst., Mycol. Pap. No. 44. 1951).]