

Revisiones Generum Obscurorum Hyphomycetum: *Leucosporium* Corda and *Phymatostroma* Corda*

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Leucosporium Corda is a validly published name, but is a nomen dubium because no authentic material of the type species can be located. *Phymatostroma* Corda is an illegitimate (superfluous) name for the same genus. The three described species of *Phymatostroma* are all considered nomina dubia.

Keywords: *Leucosporium*, *Phymatostroma*, *Pactilia*, *Achitonium*, taxonomy, hyphomycetes.

Leucosporium Corda apud Sturm, Deutsch. Fl. III, Heft 13: 67, 1833.

Type: *L. vesiculiferum* Corda apud Sturm, l.c.: 67–68, tab. 34.

≡ *Phymatostroma leucosporium* Corda, Icon. Fung. 1: 5. 1837.

≡ *Pactilia leucosporia* (Corda) Fr., Summa. Veg. Scand. p. 472. 1849.

Corda described *Leucosporium vesiculiferum* from a stem of an Umbelliferae that he collected near Praha in 1830. No material of Corda's fungus is preserved in PRM. The figure of *L. vesiculiferum* and the generic description provide few details and therefore the identity of the fungus is unclear. His description is brief, reporting only that conidia of the fungus are globose, hyaline, aseptate, powdery and arranged in superficial acervuli, without mucus or stromata. *Leucosporium* should therefore be regarded a nomen dubium.

In 1837 Corda classified this fungus in a new genus, *Phymatostroma* Corda.

Phymatostroma Corda, Icon. Fung. 1: 5. 1837.

Three original species; none designated type. *Leucosporium* Corda apud Sturm listed as a synonym.

* See Seifert, K. A. & M. A. Vincent (1992). *Sydowia* 44 (2): 307–320.

Corda gave a new name, *Phymatostroma leucosporium*, to his species *Leucosporium vesiculiferum*. On this occasion, he changed his earlier generic description by adding that the fungus had effuse stromata composed of cellular frustules. Because Corda described only one species in *Leucosporium* in 1833, and no generic name *Leucosporium* existed before that year, there was no reason to replace it. *Phymatostroma* Corda is therefore an illegitimate name (Art. 63).

Corda classified two additional species in the genus *Phymatostroma*:

Phymatostroma fusarioides Corda, Icon. Fung. 1: 5, tab. I fig. 82. 1837
≡ *Pactilia fusarioides* (Corda) Fr., Summa Veg. Scand. p. 472. 1849.

Holotype: Czechoslovakia, Bohemia, near Praha, leg. Corda; s.d., PRM No. 155596.

The type specimen contains two pieces of dead *Vitis* leaves that Corda collected near Praha. No conidia or conidiophores corresponding to Corda's description and illustration are present on the specimen. Only the obvious angular stromatic frustules mentioned by Corda remain. The material is in bad conditions and has probably been destroyed by mites and secondary saprophytic fungi, such as *Cladosporium cladosporioides* (Fres.) de Vries.

Phymatostroma stercorarium Corda, Icon. Fung. 1: 5, tab. I fig. 83. 1837

≡ *Pactilia stercoraria* (Corda) Fr., Summa Veg. Scand. p. 472. 1849.

No material of this species is preserved in PRM. The three species of *Phymatostroma*, therefore, are all considered nomina dubia.

On the basis of the study of Corda's protologue, descriptions and figures, and comparison of descriptions and some comments by Lindau (1910), the generic name *Leucosporium* Corda also remains a nomen dubium.

Lindau (1910) followed the dispositions of these species of *Phymatostroma* made by Fries (1837) in the genus *Pactilia* Fr. However, *Leucosporium* Corda 1833, has priority over *Pactilia* Fr. 1837. An additional genus, *Achitonium* Kunze 1819, was considered a synonym of *Pactilia* by Lindau (1910). The identity of Kunze's genus is unclear. It should not be considered sanctioned by Fries because the name was only mentioned, not accepted, in the *Systema* (vol. III, p. 470, Index p. 3).

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