Outlineoffungi.org - Note 1382 *Spinomyces*

Web-links: Index Fungorum, Facesoffungi, MycoBank, GenBank

Spinomyces Bat. & Peres ex Xavier-Leite, M. Cáceres & Lücking

Xavier-Leite et al. (2023) introduced the monotypic genus *Spinomyces* within *Gomphillaceae* (*Graphidales, Ostropomycetidae, Lecanoromycetes, Pezizomycotina, Ascomycota*) to accommodate six lichenized fungal species, based on morphological characteristics and phylogenetic analysis using SSU and LSU sequence data. The genus is typified by *Spinomyces albostrigosus* (R. Sant.) Xavier-Leite, Cáceres & Lücking. In *Spinomyces*, the thallus is foliicolous, continuous, with sterile white setae. The apothecia are sessile and biatorine, with the disc typically displaying various colors, predominantly yellowish to red-brown. The excipulum is composed of hyphal, colorless tissue, while the hypothecium is prosoplectenchymatous and also colorless. The epithecium is not distinctly visible. Ascospores are generally single and muriform. The hyphophores are setiform with a usually widened, white apex. Diahyphae are moniliform and inserted apically, with segments that are fusiform. The species currently classified under *Spinomyces* were previously placed in *Aderkomyces* (Lücking et al. 2005). However, molecular data revealed that *Aderkomyces* to be polyphyletic (Xavier-Leite et al. 2022). The redefined *Aderkomyces* (s. str.) can be distinguished from *Spinomyces* by its consistently applanate to adnate, somewhat emarginate, and dark greyish brown apothecia (Xavier-Leite et al. 2023).

References

Lücking R, Sérusiaux E, Vězda A. 2005 – Phylogeny and systematics of the lichen family *Gomphillaceae (Ostropales*) inferred from cladistic analysis of phenotype data. The Lichenologist 37(2), 123–170.

Xavier-Leite AB, da Silva Cáceres ME, Aptroot A, Moncada B, et al. 2022 – Phylogenetic revision of the lichenized family *Gomphillaceae* (*Ascomycota*: *Graphidales*) suggests post-K–Pg boundary diversification and phylogenetic signal in asexual reproductive structures. Molecular Phylogenetics and Evolution 168, 107380.

Xavier-Leite AB, Goto BT, Lücking R, da Silva Cáceres ME. 2023 – New genera in the lichenized family *Gomphillaceae* (*Ascomycota*: *Graphidales*) focusing on neotropical taxa. Mycological Progress 22(12), 88.

Entry by

Maryam Tavakol Noorabadi, Innovative Institute for Plant Health, Zhongkai University of Agriculture and Engineering, Guangzhou 510225, People's Republic of China

(Edited by **Subodini N. Wijesinghe)**

Published online 31 May 2024