

Outlineoffungi.org - Note 1494 *Mycogloicolacaceae*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [MycoBank](#), [GenBank](#)

Mycogloicolacaceae Schoutteten & Yurkov

Mycogloicolacaceae was erected by Schoutteten et al. (2023) to accommodate *Mycogloicolax* Schoutteten & Rödél as the type genus based on morphological characteristics and phylogenetic analyses using a concatenated dataset of ITS, LSU, SSU, RPB1, RPB2, TEF1- α , and CYT-B sequences. The family *Mycogloicolacaceae* is classified under *Microbotryomycetes*, *Pucciniomycotina*, and *Basidiomycota* (Schoutteten et al. 2023). The family *Mycogloicolacaceae* features species with a dimorphic life cycle, displaying both filamentous morphs that are mycoparasitic and reliant on host presence. Key characteristics include transversally septate basidia and colacosomes. Diagnosis and nomenclature for this family center around the newly established genus, *Mycogloicolax* (Schoutteten et al. 2023). In the genus *Mycogloicolax*, basidiomata, hyphidia, and cystidia are absent. The hyphae are hyaline, thin-walled, smooth, and clamped at all septa. Basidia are cylindrical to tubular-clavate in shape, and basally clamped, thin-walled. Basidiospores are fusiform to amygdaliform in shape, asymmetric, smooth, and hyaline. Conidia are ellipsoid to subfusiform, and thin-walled. Colacosomes were scattered, with no vesicular gall-like cells seen (Schoutteten et al. 2023). The type species, *Mycogloicolax gerardii* Schoutteten & Rödél, was found on the basidiome of *Xenasmatella tulasnelloidea* in Germany (Schoutteten et al. 2023).

References

Schoutteten N, Yurkov A, Leroux O et al. 2023 – Diversity of colacosome-interacting mycoparasites expands the understanding of the evolution and ecology of *Microbotryomycetes*. *Studies in Mycology* 106(1), 41-94.

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 **Kevin D Hyde**)

Published online 26 August 2024