Outlineoffungi.org - Note 1501 *Albomorchellophilaceae*

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Albomorchellophilaceae F.M. Yu, K.D. Hyde & Q. Zhao

The monophyletic family *Albomorchellophilaceae* was introduced to accommodate *Albomorchellophila* F.M. Yu, K.D. Hyde & Q. Zhao as the type genus according to morphological characteristics and phylogeny using the combined sequence dataset of based on combined LSU, ITS, TEF and RPB2 (Yu et al. 2023). In the asexual morph of *Albomorchellophilaceae*, sporulation occurs in the aerial mycelium, where flask-shaped conidiogenous cells develop. Occasionally, these conidiogenous cells remain inconspicuous, displaying narrow scars on the mycelium's surface. Conidia form as ovoid, hyaline structures with smooth walls. The sexual morph has not been seen (Yu et al. 2023). Besides the phylogenetic differences, *Albomorchellophilaceae* distinguishes itself from other families in Hypocreales through its degenerated conidiophores and sporulation. The family *Albomorchellophilaceae* is classified under *Hypocreales*, *Sordariomycetes*, *Pezizomycotina*, and *Ascomycota* (Yu et al. 2023). The type species *Albomorchellophila morchellae* F.M. Yu, K. D. Hyde & Q. Zhao is distributed in China, inhabiting the fruiting bodies of cultivated *Morchella*. Phylogenetically, *Albomorchellophila* formed a sister clade with *Calcarisporium* (*Calcarisporiaceae*). Morphologically, *Albomorchellophila* distinguishes itself from *Calcarisporium* through the degeneration of conidiophores into conidiogenous cells, the existence of phialidic conidiogenous cells, and the presence of ellipsoidal, oval to subglobose conidia (Yu et al. 2023).

Reference

Yu FM, Jayawardena RS, Luangharn T, Zeng XY, et al. 2023 – Species diversity of fungal pathogens on cultivated mushrooms: a case study on morels (*Morchella, Pezizales*). Fungal Diversity 125(1), 157–220.

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