

Outlineoffungi.org - Note 907 *Barbatosphaeriales*

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Barbatosphaeriales K.D. Hyde & Hongsanan

Zhang et al. (2017) introduced the family *Barbatosphaeriaceae* to accommodate species of *Barbatosphaeria*, *Ceratostomella*, and *Xylomelasma*, and this family was characterized by dark, long-necked, astromatic ascomata, clavate or cylindrical-clavate asci, and mostly ellipsoidal ascospores. The asexual morph of *Barbatosphaeriaceae* was reported as *Ramichloridium* sp. or *Sporothrix* sp. *Barbatosphaeriaceae* was placed in the *Diaporthomycetidae* families *incertae sedis* (Hyde et al. 2020). However, Hyde et al. (2021) showed that *Barbatosphaeriaceae* formed a distinct clade within the *Diaporthomycetidae* with a stem age of 177 MYA, which falls within the order range (Hyde et al. 2017). Therefore, the monotypic order *Barbatosphaeriales* was introduced to accommodate *Barbatosphaeriaceae*. H. Zhang, K.D. Hyde & Maharachch with morphology and phylogenetic analysis of LSU, SSU, *TEF1- α* , and *RPB2* sequences (Hyde et al. 2021). This family was only typified by *Barbatosphaeria* Réblová. Three genera *Barbatosphaeria*, *Ceratostomella*, and *Xylomelasma* are similar in morphology and can be distinguished with size and color changes in ascomata and ascospores in addition to phylogenetic analysis. Species in *Barbatosphaeriales* are saprobes on decaying wood or plant materials and they reported from China (Yunnan), the Czech Republic, France, Great Britain, Italy, New Zealand, the Czech Republic, and the USA (Illinois, Virginia) (Index Fungorum 2023). The taxonomic placement for *Barbatosphaeriales* is in *Diaporthomycetidae*, *Sordariomycetes*, *Pezizomycotina* and *Ascomycota*.

References

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