

Outlineoffungi.org - Note 1506 *Planisphaeria*

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Planisphaeria J.F. Zhang, Jian K. Liu & K.D. Hyde

Planisphaeria was erected to accommodate *Planisphaeria reniformispora* J.F. Zhang & K.D. Hyde as the type species based on morphology and phylogeny using LSU, SSU, TEF1- α and Rpb2 sequences data of species in *Sordariomycetes* (Zhang et al. 2023). Another species is *P. karsti*. In the sexual morph, ascomata are perithecial, immersing into and erumpenting through the host tissue, broadly cracking at the apex, gregariously or scattered, and presenting as depressed subglobose to obpyriform shapes with a fattened base. They exhibit a coriaceous texture, ranging from dark brown to black, sometimes staining the substrate in brown to dark brown, and ostiolating in a clypeate form. The ostiole remains central, lined with abundant, hypha-like, non-septate periphyses within the ostiolar canal. The peridium composes two strata: the outer stratum consists of thick-walled, red-brown to brown pseudoparenchymatous cells merging with the host tissue, while the inner stratum contains hyaline, thin-walled, elongated cells of textura angularis to prismatica. The hamathecium features filiform paraphyses, slightly longer than the asci, which dissolve or persist with age. The asci remain unitunicate, eight-spored, broadly clavate, short pedicellate, and apically round with or without apical rings. The ascospores overlap in bi- to tri-seriate arrangements, appearing hyaline, non-septate, reniform or narrowly ovoid, and rarely in irregular shapes, thick-walled, with or without a mucilaginous sheath. The asexual morph has not been seen (Zhang et al. 2023). The taxonomic position of *Planisphaeria* is in *Planisphaeriaceae*, *Planisphaeriales*, *Sordariomycetidae*, *Sordariomycetes*, *Pezizomycotina*, and *Ascomycota* (Zhang et al. 2023). The type species was isolated from the dead branch of unidentified woody plan in China (Zhang et al. 2023).

Reference

Zhang JF, Liu JK, Hyde KD, Chen YY et al. 2023 – Ascomycetes from karst landscapes of Guizhou Province, China. *Fungal Diversity* 122(1), 1–60.

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