

Outlineoffungi.org - Note 862 *Parahelicomyces*

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

Parahelicomyces Goh

Parahelicomyces was established by Hsieh et al. (2021) to accommodate *P. talbotii* (= *Helicosporium talbotii*) as the type species, based on morphology and phylogenetic analysis of ITS sequence data. *Parahelicomyces* species have been reported from both terrestrial and freshwater ecosystems in China, Japan, Mexico, South Africa, and Thailand. The sexual morph of *Parahelicomyces* is characterized by superficial, subglobose, clavate to obovate, coriaceous, ostiolate ascomata seated on a subiculum, and bitunicate, cylindrical, pedicellate, apically rounded asci with fusiform, multi-septate, hyaline, smooth-walled ascospores, while the asexual morph of this genus having macronematous, branched, septate conidiophores with mono- to polyblastic, integrated, intercalary or terminal, determinate or sympodial, denticulate conidiogenous cells that produce acropleurogenous, helicoid, multi-septate, hyaline to pale brown conidia (Tian et al. 2022). Based on multi-locus phylogenetic analysis of ITS, LSU, *rpb2*, and *tef1- α* , *Parahelicomyces* formed a sister clade with *Helicotruncatum* (Tian et al. 2022). The taxonomic placement of *Parahelicomyces* is in *Tubeufiaceae*, *Tubeufiales*, *Dothideomycetes*, and *Ascomycota*.

References

- Hsieh SY, Goh TK, Kuo CH. 2021 – New species and records of *Helicosporium* sensu lato from Taiwan, with a reflection on current generic circumscription. *Mycological Progress* 20(2), 169–190. <https://doi.org/10.1007/s11557-020-01663-8>
- Tian X, Karunarathna SC, Xu R, Lu Y et al. 2022 – Three new species, two new records and four new collections of *Tubeufiaceae* from Thailand and China. *Journal of Fungi* 8(2), 206. <https://doi.org/10.3390/jof8020206>

Entry by

Jian Ma, College of Agronomy, Jiangxi Agricultural University, Nanchang 330045, China

(Edited by **Maryam Tavakol Noorabadi**, **Kevin D. Hyde** & **Subodini N. Wijesinghe**)

Published online 2 April 2024