

Outlineoffungi.org – Note 994, *Favolus*

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Favolus Fr.

Favolus, typified by *F. brasiliensis* (Fr.) Fr., is a monophyletic genus of white-rot polypores that is widely distributed in tropical and subtropical regions worldwide. It is characterized by laterally attached, fleshy to flexible basidiomata with mostly angular and radially elongated pores, with occasionally round or irregularly elongated pores (Sotome et al. 2013, Palacio et al. 2021). The genus currently comprises approximately 70 legitimate names, of which 20 species were recognized in the most recent taxonomic revision, based on type studies, morphological features, and multigene phylogenetic analyses (Zabin et al. 2024). Key morphological characters, including the pileal surface structure, the hymenophore morphology, and the average basidiospore size, have proven to be the most informative and variable traits in the genus (Zabin et al. 2024). However, the considerable variability and occasional overlap among species highlight the need for additional data—such as mating compatibility tests, molecular studies, and insights into its physiology and ecology, which are still poorly explored. The diversity of the genus in Africa, Asia, and Oceania is in need of reinvestigation in modern taxonomic studies. A critical reexamination of type specimens of earlier legitimate taxa that have been underrepresented in modern taxonomic studies or treated as synonyms under broad morphological concepts prior to the advent of molecular tools, is strongly encouraged for future research in the genus. The taxonomic placement of *Favolus* is in *Polyporaceae*, *Polyporales*, *Agaricomycetes*, *Agaricomycotina*, *Basidiomycota*.

References

- Sotome K, Akagi Y, Lee SS, Ishikawa NK et al. 2013 – Taxonomic study of *Favolus* and *Neofavolus* gen. nov. segregated from *Polyporus* (*Basidiomycota*, *Polyporales*). *Fungal Diversity* 58, 245–266.
- Palacio M, Drechsler Dos Santos ER, Menolli Jr N, da Silveira RMB. 2021 – An overview of *Favolus* from the Neotropics, including four new species. *Mycologia* 113(4), 759-775.
- Zabin DA, Spirin V, Vlasák J, Coelho-Nascimento C et al. 2024 – Taxonomic reinvestigation of *Favolus* in the Neotropics utilizing morphological and multigene phylogenetic analyses. *Mycological Progress* 23(1), 44.

Entry by

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