

Outlineoffungi.org - Note 1468 *Phaffomycetales*

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Phaffomycetales M. Groenew., Hittinger, Ofulente & A. Rokas

Phaffomycetales was erected to accommodate *Metschnikowiaceae* Kamieński ex Doweld as the type family based on morphological characteristics, physiological features, and a concatenation single-model (LG+G4) approach on a data matrix of 1672 taxa (1644 fungi and 28 outgroups) and 290 BUSCO genes (Groenewald et al. 2023). The *Phaffomycetales* include the *Phaffomycetaceae* and *Wickerhamomycetaceae*. According to Groenewald et al. (2023), the genera identified within the *Phaffomycetales* are *Barnettozyma*, *Cyberlindnera*, *Phaffomyces*, *Starmera*, and *Wickerhamomyces*. The taxonomic position of *Phaffomycetales* is in *Saccharomycetes*, *Saccharomycotina*, and *Ascomycota*. Included orders in *Saccharomycetes* are *Ascoideales*, *Phaffomycetales*, *Saccharomycetales*, and *Saccharomycodales* (Groenewald et al. 2023). The diagnosis of *Phaffomycetales* is based on the presence of order-specific protein families OG0006529 and OG0006543 (Groenewald et al., 2023). Phylogenetic analyses are performed using DNA sequences encoding SSU rDNA, LSU rDNA, EF-1 α , *Rpb1*, and *Rpb2*, following the methods described by Kurtzman and Robnett (2013).

References

- Groenewald M, Hittinger CT, Bensch K, Ofulente DA, et al. 2023 – A genome-informed higher rank classification of the biotechnologically important fungal subphylum *Saccharomycotina*. *Studies in Mycology* 105(1), 1–22.
- Kurtzman CP, Robnett CJ. 2013 – Relationships among genera of the *Saccharomycotina* (*Ascomycota*) from multigene phylogenetic analysis of type species. *FEMS Yeast Research* 13, 23–33.

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