

## Outlineoffungi.org - Note 1470 *Sporopachydermiales*

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***Sporopachydermiales*** M. Groenew., Hittinger, Ofulente & A. Rokas

*Sporopachydermiales* was erected to accommodate *Saccharomycodaceae* Kudryavtsev 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). Within *Sporopachydermiales*, *Sporopachydermiaceae* has been identified, based on the study by Groenewald et al. (2023), type genus and type species are *Sporopachydermia* Rodr. Mir. and *Sporopachydermia lactativora* Rodr. Mir., respectively. (Groenewald et al. 2023). The diagnosis of *Sporopachydermiales* involves the identification of specific protein families: OG0028621, OG0028581, OG0028722, and OG0028736. and phylogenetic analysis relies on DNA sequences encoding LSU rDNA, mtSSU rDNA, and Cox2, as detailed by Kurtzman & Robnett (2007). Asexual reproduction occurs through multilateral budding on a narrow base, without the formation of pseudohyphae or true hyphae. Glucose fermentation is typically absent or weak, nitrate is not assimilated, and myo-inositol is assimilated. Furthermore, Coenzyme Q-9 formation is observed. (Groenewald et al. 2023). The new order *Sporopachydermiales* is classified under *Sporopachydermiomycetes*, *Saccharomycotina*, and *Ascomycota* (Groenewald et al. 2023).

### 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. 2007 – Multigene phylogenetic analysis of the *Trichomonascus*, *Wickerhamiella* and *Zygoascus* yeast clades, and the proposal of *Sugiyamaella* gen. nov. and 14 new species combinations. *FEMS Yeast Research* 7, 141–151.

### Entry by

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