

## Outlineoffungi.org - Note 1476 *Sporopachydermiomycetes*

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

*Sporopachydermiomycetes* was introduced to accommodate *Sporopachydermiales* M. Groenew., Hittinger, Ofulente & A. Rokas as the type order 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 diagnosis of *Sporopachydermiomycetes* involves the identification of class-specific protein families OG0028621, OG0028581, OG0028722, and OG0028736. Phylogenetic analyses are conducted using DNA sequences that encode LSU rDNA, mtSSU rDNA, and Cox2 sequences, as documented by Kurtzman & Robnett (2007). Asexual reproduction occurs through multilateral budding on a narrow base. Glucose fermentation is either absent or weak, and nitrate assimilation is not observed. The assimilation of myo-inositol as the sole carbon source is noted and Coenzyme Q-9 is produced (Groenewald et al. 2023). The new class *Sporopachydermiomycetes* are classified under *Saccharomycotina*, and *Ascomycota* (Groenewald et al. 2023).

**Type species:** *Sporopachydermia lactativora* Rodr. Mir.

### 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.

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