

## Outlineoffungi.org - Note 1477 *Trigonopsidomycetes*

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***Trigonopsidomycetes*** M. Groenew., Hittinger, Opulente & A. Rokas

*Trigonopsidomycetes* was introduced to accommodate *Trigonopsidales* M. Groenew., Hittinger, Opulente & A. Rokas as the type order based on morphological characteristics, physiological characteristics 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 type family, type genus and type species are *Trigonopsidaceae* Lachance & Kurtzman, *Trigonopsis* Schachner, and *Trigonopsis variabilis* Schachner respectively. The identification of the newly established class *Trigonopsidomycetes* involves class-specific protein families OG0008190 and OG0008482. Phylogenetic analyses are conducted using DNA sequences encoding LSU rDNA, mtSSU-rDNA, and Cox2 sequences, following the methodologies described by Kurtzman and Robnett (2007). *Trigonopsidaceae* is the only family within *Trigonopsidales*. The genera included in *Trigonopsidales* are *Botryozyma* (with the teleomorph *Ascobotryozyma*), *Tortispora*, and *Trigonopsis*, as detailed by Groenewald et al. (2023). *Trigonopsidomycetes* is classified under *Saccharomycotina*, within the phylum *Ascomycota*. (Groenewald et al. 2023).

### References

- Groenewald M, Hittinger CT, Bensch K, Opulente 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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