

Outlineoffungi.org - Note 1471 *Trigonopsidales*

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

Trigonopsidales was introduced to accommodate *Trigonopsidaceae* Lachance & Kurtzman 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 type genus and type species are *Trigonopsis* Schachner and *Trigonopsis variabilis* Schachner, respectively. *Trigonopsidales* is classified under *Trigonopsidomycetes*, *Saccharomycotina*, *Ascomycota* (Groenewald et al. 2023). *Trigonopsidales* was identified based on specific protein families including OG0008190 and OG0008482, which serve as distinctive genetic markers. Phylogenetic analyses utilize DNA sequences encoding LSU rDNA, mtSSU rDNA, and Cox2, as extensively documented by Kurtzman & Robnett (2007) and Lachance & Kurtzman (2013). *Trigonopsidaceae* is a key component in *Trigonopsidales*, encompassing notable genera such as *Botryozyma* (teleomorph *Ascobotryozyma*), *Tortispora*, and *Trigonopsis*. (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.
- Lachance MA, Kurtzman CP. 2013 – The yeast genus *Tortispora* gen. nov., description of *Tortispora ganteri* sp. nov., *Tortispora mauiana* f.a., sp. nov., *Tortispora agaves* f.a., sp. nov., *Tortispora sangerardii* f.a., sp. nov., *Tortispora cuajiniquilana* f.a., sp. nov., *Tortispora starmeri* f.a., sp. nov., and *Tortispora phaffii* f.a., sp. nov., reassignment of *Candida caseinolytica* to *Tortispora caseinolytica* fa., comb. nov, emendation of *Botryozyma*, and assignment of *Botryozyma*, *Tortispora* gen. nov., and *Trigonopsis* to the family *Trigonopsidaceae* fam. nov. *International Journal of Systematic and Evolutionary Microbiology* 63, 3104–3114.

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