

Outlineoffungi.org - Note 1467 *Serinales*

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Serinales M. Groenew., Hittinger, Opulente & A. Rokas

Serinales was introduced to accommodate *Metschnikowiaceae* Kamiński 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). Families included in the *Serinales* are *Cephaloascaceae*, *Debaryomycetaceae*, and *Metschnikowiaceae* (Groenewald et al. 2023). The type genus and type species are *Metschnikowia* T. Kamiński and *Metschnikowia bicuspidata* (Metschn.) Kamiński., respectively (Groenewald et al. 2023). The taxonomic placement of *Serinales* is *Pichiomycetes*, *Saccharomycotina* and *Ascomycota* (Groenewald et al. 2023). A distinctive feature of the *Serinales* is the presence of the order-specific protein family OG0004743. Within this order, the CUG codon is translated into a serine, deviating from the typical translation of leucine found in most organisms. This unique characteristic sets the *Serinales* apart and helps distinguish them within the broader classification of *Saccharomycotina* (Groenewald et al. 2023).

References

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