

Outlineoffungi.org - Note 1460 *Pichiaceae*

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

Pichiaceae was erected to accommodate *Pichia* E.C. Hansen as the type genus. According to 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 species is *Pichia membranifaciens* (E.C. Hansen) E.C. Hansen. *Pichiomyces* encompasses several orders, including *Alaninales*, *Pichiales*, and *Serinales*. The family-specific protein families OG0005494 and OG0005374 are identified within the orders *Alaninales*, *Pichiales*, and *Serinales* (Groenewald et al. 2023). Phylogenetic analyses in these orders utilize DNA sequences encoding LSU rDNA, SSU rDNA, EF-1 α , and mtSSU rDNA to study the evolutionary relationships within this group (Daniel et al. 2014). Some genera that were formerly designated within the *Saccharomycetales incertae sedis* by Kurtzman et al. (2011) have now been incorporated into the order *Pichiales*. This includes genera from the family *Pichiaceae*, as well as the recently introduced genus *Allodekкера* by Jutakanoke et al. (2017). Additionally, while *Komagataella* was originally classified in the family *Phaffomycetaceae* by Kurtzman et al. (2011), genome-scale analyses have indicated its reassignment to the order *Pichiales*. The taxonomic placement of the new family *Pichiaceae* is *Pichiomyces*, *Saccharomycotina*, and *Ascomycota* (Groenewald et al. 2023).

References

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(Edited by **Kevin D Hyde**)

Published online 24 July 2024