

## Outlineoffungi.org - Note 1492 *Neoarthritisidaceae*

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### *Neoarthritisidaceae* Torres-Garcia & Gené

*Neoarthritisidaceae* was introduced to accommodate *Neoarthritis* Torres-Garcia, Cano & Gené. as the type genus based on morphology and phylogeny using the combined sequence dataset of ITS, and LSU (Torres-Garcia et al. 2023). In the family *Neoarthritisidaceae*, the colonies appear white, yellowish, or cream. The asexual morph resembles arthrospis, chrysosporium, and myriodontium. The sexual morph features gymnothecial ascomata, which are superficial and may appear single or aggregated, taking on a white, globose form with or without appendages. The peridium consists of a network of loosely interwoven, undifferentiated, septate, branched, hyaline hyphae, either thin- or thick-walled, with helical peridial appendages when present. Asci form as unitunicate, 8-spored, evanescent structures, appearing clustered or chained globose, subglobose, or oval. Ascospores develop as one-celled, globose, subglobose, or oblate entities, varying from hyaline to subhyaline, occasionally yellowish or pale brown, and exhibit smooth, punctate, or punctate-reticulate walls, with or without a sheath (Torres-Garcia et al. 2023). The family *Neoarthritisidaceae* is classified under *Onygenales*, *Eurotiomycetidae*, *Eurotiomycetes*, *Pezizomycotina*, and *Ascomycota* (Liu et al. 2023). The family includes five genera, namely *Albidomyces*, *Apinisia*, *Arachnotheca*, *Myriodontium*, and *Neoarthritis*. The species within the family *Neoarthritisidaceae* can be ecologically classified as saprobic. They typically reside in soil, though they may occasionally be found in animal dung or plant debris. Additionally, they can survive in aquatic environments, including freshwater and marine sediments (Torres-Garcia et al. 2023).

### Reference

Torres-Garcia D, Gené J, García D, Cano-Lira JF. 2023 – Insights into some onygenalean fungi from freshwater sediments in Spain and description of novel taxa. *Journal of Fungi* (12), 1129.

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