

Outlineoffungi.org - Note 666 *Metulochaete*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [MycoBank](#)

Metulochaete Alvarenga

Metulochaete is a monotypic genus of saprotrophic jelly fungi occurring on wood remnants of angiosperms in southern Brazil ([Alvarenga et al. 2019](#)). Based on nomenclatural, morphological and phylogenetic studies (ITS and LSU sequences), the new genus *Metulochaete* was introduced to define the taxonomic position of *Heterochaete sanctae-catharinae*. The original generic placement of this species was inadequate because *Heterochaete* was characterized as polyphyletic ([Alvarenga et al. 2019](#)). According to [Spirin et al. \(2019\)](#) *Metulochaete* has an isolated position from the “core” *Auriculariales* genera (e.g., *Auricularia*, *Exidia*, *Exidiopsis*). The type species is *M. sanctae-catharinae* ([Alvarenga et al. 2019](#)). The genus is characterized by effused, gelatinous to waxy-dry basidiomata, sterile hymenophoral spines covered by thick-walled (metuloid) cystidia, monomitic hyphal structure, clamp-connections, and thin-walled, allantoid, straight to slightly curved basidiospores ([Alvarenga et al. 2019](#)). The asexual morph is unknown. *Metulochaete* is currently placed in *Incertae sedis*, *Auriculariales*, *Auriculariomycetidae*, *Agaricomycetes*, *Agaricomycotina*, *Basidiomycota*. Because the phylogenetic position of the genus was determined by only two sequenced marker genes from one specimen, further sampling and sequencing of additional genes (e.g., *rpb2*, *tef1*, *tub2*) are required to determine the correct taxonomic position of this genus at the family rank within *Auriculariales*.

References

- Alvarenga RLM, Spirin V, Malysheva V, Gibertoni TB, Larsson K-H. 2019 – Two new genera and six other novelties in *Heterochaete sensu lato* (*Auriculariales*, *Basidiomycota*). *Botany* 97, 439–451. <https://doi.org/10.1139/cjb-2019-0046>
- Spirin V, Malysheva V, Miettinen O, Vlasák J, Alvarenga RLM, Baptista Gibertoni T, Ryvardeen L, Larsson K-H. 2019 – On *Protomerulius* and *Heterochaetella* (*Auriculariales*, *Basidiomycota*). *Mycological Progress* 18, 1079–1099. <https://doi.org/10.1007/s11557-019-01507-0>

Entry by

Armin Mešić, Laboratory for Biological Diversity, Ruđer Bošković Institute, Bijenička cesta 54, HR-10000 Zagreb, Croatia

(Edited by **Kevin D Hyde & Rekhani Hansika Perera**)

Published online 8 December 2022