

Outlineoffungi.org - Note 1317 *Pseudogrammothele*

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Pseudogrammothele Y.C. Dai, W.L. Mao & Yuan Yuan

Mao et al. (2023) introduced *Pseudogrammothele* within *Polyporaceae* (*Polyporales*, *Agaricomycetes*, *Basidiomycota*) to accommodate *P. separabilima* (H.S. Yuan) Y.C. Dai, W.L. Mao & Yuan Yuan as a monotypic species based on morphology and phylogenetic analyses of ITS, LSU, *tef1*, and *rpb1* sequence data. This genus was found on a fallen angiosperm twig in China and causes white rot. *Pseudogrammothele* is characterized by resupinate, leathery basidiome that easily separates from the substrate, with yellowish brown to pale luteous pore surface, subiculum duplex with a distinct black line separating the two layers, the hyphal system dimitic with skeletal hyphae IKI–, CB + and basidiospores oblong ellipsoid, hyaline, thin-walled, smooth, usually with a large guttule, IKI–, CB +. Phylogenetically, this genus formed a well-supported distant clade from *Epithele*, *Grammothele*, *Porogramme*, and *Theleporus*, which are morphologically similar. However, *Pseudogrammothele* differs from them by having basidiome easily separating from the substrate, the distinct pores, duplex subiculum and large and cyanophilous basidiospores with guttules (Mao et al. 2023). *Pseudogrammothele separabilima* was originally described in *Grammothele* by having a resupinate basidiome with a brownish pore surface, a poroid hymenophore with hymenium restricted to the base of the tubes, a duplex subiculum, a dimitic hyphal system with dextrinoid and CB– skeletal hyphae, presence of dendrohyphidia and oblong ellipsoid, thin-walled, IKI–, CB– basidiospores and phylogenetic analysis with ITS was made (Núñez & Ryvarde 2001, Yuan 2015). Molecular analyses based on the dataset (ITS, LSU, *tef1*, and *rpb1*) have confirmed that the genus belongs to a monophyletic clade in the family *Polyporaceae* (Mao et al. 2023). Further investigations should include the type specimen of *Grammothele separabilima* H.S. Yuan in the morphological description and phylogenetic analysis to confirm the validity of the genus because this was not considered and there are some differences in the morphology of type specimen with the specimens studied by Mao et al. (2023).

References

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- Yuan HS. 2015 – Molecular and morphological evidence reveal two new species in *Grammothele* and *Theleporus* (*Basidiomycota*) from southern China. *Phytotaxa* 213 (1), 46–56.

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