

## Outlineoffungi.org - Note 793 *Neopolystigma*

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*Neopolystigma* Dianese, Guterres, M.D.M. Santos & R.W. Barreto

Based on analysis of combined 28S, 18S and ITS sequence data, Guterres et al. (2022) introduced *Neopolystigma* to accommodate *N. pusillum* (Syd. & P. Syd.) Dianese, Guterres, M.D.M. Santos & R.W. Barreto and *N. saraivae* Dianese Guterres, M.D.M. Santos & R.W. (the type). *Neopolystigma saraivae* is a biotrophic pathogen reported from leaves of *Andira humili* in Brazil (Guterres et al. 2022). *Neopolystigma* is known from its sexual morph and is characterized by ampulliform, subepidermal, epiphyllous, pseudostromatic, mostly unilocular ascomata, on top of a discoloured layer of the palisade parenchyma. Asci are unitunicate, cylindrical, short-pedicellate, paraphysate asci. Ascospores of this genus are mostly uniseriate, hyaline, smooth, aseptate, elliptical to oblong-elliptical, thick-walled and guttulate. However, the phylogenetic evidence obtained from the analysis of 28S, 18S and ITS sequence data showed that *Neopolystigma* is placed in *Phyllachorales* forming a distinct cluster (Guterres et al. 2022). Hence, a new family, *Neopolystigmataceae* (*Phyllachorales*, *Sordariomycetes*) was introduced to accommodate *Neopolystigma*. Based on phylogenetic inferences, *Polystigma pusillum* found on which is the sister taxon of *N. saraivae* was recombined into *N. pusillum*.

### Reference

Guterres DC, dos Santos MDDM, Furlanetto C, Pinho DB, Barreto RW, Dianese JC. 2022 – Filling a gap in the taxonomy of phyllachoroid fungi: Proposition of *Neopolystigma*, gen. nov., and the new family *Neopolystigmataceae*. *Mycologia* 114, 900–913. <https://doi.org/10.1080/00275514.2022.2092365>

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