

Outlineoffungi.org – Note 781 [Neochaetothyрина](#)

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[Neochaetothyрина](#) Crous

The monotypic genus [Neochaetothyрина](#) with [N. syzygii](#) Crous as the type species was proposed to accommodate a taxon associated from the leaves of *Syzygium cordatum* in South Africa ([Crous et al. 2021](#)). The phylogenetic analysis from the LSU sequences revealed that the taxon formed a distinct clade within [Phaeothecoidiaceae](#) (*Mycosphaerellales*, *Dothideomycetes*). [Neochaetothyрина](#) is characterized by associating superficially at the underside of a leaf tissue and globose ascomata ([Crous et al. 2021](#)). It comprises brown *textura epidermoidea* peridium, with radiating anastomosing superficial hyphae, with mucoid sheath, constricted at septa, without hyphopodia, presenting of anastomosed pseudoparaphyses ([Crous et al. 2021](#)). The asci are obovoid to broadly ellipsoid, arranged in basal layer of peridium wall, ascospores presented as fusoid-ellipsoid, 1-septate, constricted at median septum, widest above septum, hyaline, turning brown at the germinating states ([Crous et al. 2021](#)). The species has protruding setae arising from outer wall of ascoma, multi-septate, tapering to sub-obtuse apex; setae also arising from superficial mycelium surrounding ascoma, with basal T-cell ([Crous et al. 2021](#)). The asexual morph is not known. [Neochaetothyрина syzygii](#) is morphologically similar to [Chaetothyрина](#) especially *C. musarum* (Speg.) Theiss. in having setae on top of ascoma wall ([Singtripop et al. 2016](#)). [Neochaetothyрина](#) is distinguishable by having anastomosing superficial hyphae, as well as the setae arising from superficial mycelium surrounding ascoma ([Crous et al. 2021](#)). [Neochaetothyрина syzygii](#) is reported as a saprobe, forming structures in moist chamber after one week of incubation. Multi-loci phylogeny for [Neochaetothyрина](#) will provide insight into the relationship of the genus within [Phaeothecoidiaceae](#).

References

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