

Outlineoffungi.org – Note 782 [Nothophaeotheca](#)

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[Nothophaeotheca](#) Crous

[Nothophaeotheca](#) is a monotypic genus with [N. mirabibensis](#) Crous as the type species. The species was plant associated, isolated from persistent inflorescence remains of *Blepharis obmitrata* in Namibia ([Crous et al. 2021](#)). Based on the phylogenetic analysis of nuLSU sequences, the genus resided within [Neophaeothecaceae](#) ([Neophaeothecales](#), [Dothideomycetes](#)) and showed closed affinity to [Neophaeotheca](#) ([Crous et al. 2021](#)). [Nothophaeotheca](#) fits the family concept in having endoconidia developing inside the swollen hyphae, with swollen terminal or intercalary cells ([Crous et al. 2016](#); [Abdollahzadeh et al. 2020](#)). [Nothophaeotheca](#) is characterized by having branched, hyaline to green-brown hyphae, presence of endoconidia, initially in clusters of 2–6 and gradually disarticulating into solitary, thick-walled, verruculose to warty, 0–1-septate, ellipsoid-globose, green-brown conidia. The sexual morph is not known. [Nothophaeotheca](#) differs from [Neophaeotheca](#) (the generic type) in its endoconidia shape and colour, hyphal swellings up to 120 µm diameter and branched hyphae that give rise to microsclerotia ([Crous et al. 2021](#)). The blast search showed that the closest hits using the ITS and LSU sequences are 90% and 97% respectively, similar to the type species of [Neophaeotheca](#) (*N. salicorniae* (Crous & Roets) Abdollahz. & Crous). [Nothophaeotheca](#) species were reported from dried plant material but formed structures in axenic condition. Thus, the lifestyle of the genus could not be confirmed. Further analysis of multi-gene phylogeny is required for the robust taxonomic position of [Nothophaeotheca](#).

References

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