

Outlineoffungi.org - Note 1199 *Neonematogonum*

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Neonematogonum Crous & Akulov

The monotypic genus *Neonematogonum* was established by Crous et al. (2023) to accommodate *Neonematogonum carpinicola* Crous & Akulov based on morphological characteristics and phylogenetic analysis (ITS, LSU, RPB2, and TUB2 sequences). This new genus was established solely with an asexual morph. In this genus, conidiophores are erect, unbranched, subcylindrical in shape, and pale brown. Conidia are in unbranched chains, aseptate, pale brown, and smooth. This genus involves primary and secondary conidia. The type species was isolated from the dead branches of *Carpinus betulus* in Ukraine. *Neonematogonum* shares morphological similarities with *Nematogonum*, but differs in having nodose conidiophores and being obligately fungicolous, unable to grow in culture without the host fungus. Phylogenetically, *Neonematogonum* is closely related to genera in the order *Helotiales*, despite being morphologically distinct from them (Crous et al. 2023).

Reference

Crous PW, Costa MM, Kandemir H, Vermaas M et al. 2023 – Fungal Planet description sheets: 1550–1613. *Pers Mol Phylogeny Evol Fungi* 51(1), 280–417.

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