Outlineoffungi.org - Note 763 *Neoacrodictys*

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Neoacrodictys J.W. Xia & X.G. Zhang

Neoacrodictys, typified by *N. elegans* J.W. Xia & X.G. Zhang, is an asexual morph genus that is distinguished by darkly pigmented turbinate to obpyriform, muriform conidia produced from monoblastic, integrated terminal conidiogenous cells on macronematous unbranched conidiophores (Xia et al. 2022). No sexual morph has been reported. It is a monotypic genus which includes species with saprophytic lifestyles that are associated with deciduous, rotten leaves or dead twigs in a tropical rainforest (Xia et al. 2022). *Acrodictys* species are related to *Neoacrodictys* but differ in conidial shape, i.e., obovoid to clavate, broadly ellipsoidal, or irregular with appendages (Ellis 1976). *Neoacrodictys* was introduced based on its typical morphology and molecular phylogeny (based on the LSU gene), of which *Neoacrodictys elegans* formed an independent lineage close to the members in *Stictographaceae* (Xia et al. 2022). However, the taxonomic classification of this genus was not indicated by Xia et al. (2022). The nomenclature of *Neoacrodictys* registered in MycoBank (accessed on October 18th, 2022) is affiliated with *Kirschsteiniotheliaceae*, *Kirschsteiniotheliales*. Based on a Blastn search of NCBI GenBank (accessed on October 18th, 2022), the closest hits using the LSU sequence of *N. elegans* had highest similarity to *Actinocladium aquaticum* (isolate CS27-4) and *Stictographa lentiginosa* (voucher van den Boom 47621 (herb van den Boom)). *Actinocladium aquaticum* (isolate CS27-4) is the type of *Actinocladium* (Yang et al. 2022, *submitted*), a hyphomycete genus that was considered as congeneric with *Tripsporium* and represented the first asexual morph in *Stictographaceae*. Therefore, the molecular data of *Neoacrodictys* (*N. elegans*) and phylogeny indicate that the genus belongs to *Stictographaceae* and is closely related to *Actinocladium*.

References

Xia JW, Mu TC, Zhang ZX, Li Z, Zhang XG. 2022 – *Neoacrodictys elegans* gen. & sp. nov. from Hainan Province, China. Mycotaxon 137, 63–71. https://doi.org/10.5248/137.63

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