

Outlineoffungi.org - Note 1237 *Pseudoniesslia*

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Pseudoniesslia L.W. Hou, L. Cai & Crous

Hou et al. (2023) introduced the monotypic genus *Pseudoniesslia* in *Pseudoniessliaceae* (*Hypocreales*, *Sordariomycetes*, *Ascomycota*) to accommodate *P. minutispora* (W. Gams et al.) L.W. Hou, L. Cai & Crous based on morphological and phylogenetic studies (Gams et al. 2019, Hou et al. 2023). Morphologically, it is distinguished from *Niesslia sensu stricto* due to its relatively long phialides, grouped on terminal whorls on top of short stalks, and the development of sporodochial conidiomata (Gams et al. 2019). *Pseudoniesslia* has been found in temperate Western Europe (Belgium, Germany, and the Netherlands), mostly isolated from bark and decaying wood of *Fagaceae*, *Oleaceae*, and *Salicaceae*, agricultural soil, and in association with *Auricularia auricula-judae* (*Basidiomycota*) (Hou et al. 2023). Although originally allocated in *Niesslia* based on morphological characters (Gams et al. 2019), the protologue of *N. minutispora* already suggested a distinct phylogenetic placement. This was recently confirmed through a multi-locus phylogenetic analysis (ITS, LSU, and *rpb2*), establishing it as a genetically distinct monophyletic lineage basal to *Chrysonectriaceae*, *Nectriaceae*, and *Neoacremoniaceae* (Hou et al. 2023).

References

- Gams W, Stielow B, Gräfenhan T, Schroers H-J. 2019 – The ascomycete genus *Niesslia* and associated monocillium-like anamorphs. *Mycological Progress* 18, 5–76. <https://doi.org/10.1007/s11557-018-1459-5>
- Hou LW, Giraldo A, Groenewald JZ, Rämä T et al. 2023 – Redisposition of acremonium-like fungi in *Hypocreales*. *Studies in Mycology* 105, 23–203. <https://doi.org/10.3114/sim.2023.105.02>

Entry by

Marcelo Sandoval-Denis, Westerdijk Fungal Biodiversity Institute, Uppsalalaan 8, Utrecht, 3584 CT, The Netherlands

(Edited by **Maryam Tavakol Noorabadi & Subodini N. Wijesinghe**)

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