

Outlineoffungi.org - Note 1490 *Nothocremoniaceae*

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

The monotypic genus *Nothocremoniaceae* was erected to accommodate *Nothocremonium* L.W. Hou, L. Cai & Crous as the type genus according to morphological characteristics and phylogeny using the concatenated sequence dataset of LSU, ITS and rpb2 sequences (Liu et al. 2023). In the family *Nothocremoniaceae*, mycelium branches form septate structures with hyaline, smooth, and thin-walled hyphae. Conidiophores are erect, standing straight or bending irregularly at the base, remain unbranched or develop irregularly basitinous side branches, featuring one–two septa at the base, presenting hyaline, smooth-walled cell walls that usually thicken compared to vegetative hyphae. Conidiogenous cells manifest enteroblastically, either monophialidic or polyphialidic, positioned laterally or terminally, remaining unbranched or branching basitonously, taking on cylindrical, acicular, or subulate shapes, appearing hyaline, with thick, smooth walls, showing inconspicuous periclinal thickening and a collarete at the conidiogenous locus; short sterile outgrowths emerge; occasionally, polyphialides present with two conidiogenous loci. Conidia form aseptate structures, shaping ellipsoidal, cylindrical, or fusoid profiles, aligning straight, appearing hyaline, with a mix of thin and thick smooth-walled textures, being eguttulate or containing small guttules, clustering in slimy heads or extending in long chains. Chlamydospores and sexual morphs have not been seen. The family *Nothocremoniaceae* is classified under *Hypocreales*, *Sordariomycetes*, *Pezizomycotina*, and *Ascomycota* (Hou et al. 2023).

Reference

Hou LW, Giraldo A, Groenewald JZ, Rämä T, et al. 2023 – Redisposition of acremonium-like fungi in *Hypocreales*. *Studies in Mycology* 105, 23.

Entry by

Maryam Tavakol Noorabadi, Innovative Institute for Plant Health, Zhongkai University of Agriculture and Engineering, Guangzhou 510225, People's Republic of China

(Edited by **Kevin D Hyde**)

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