

Outlineoffungi.org - Note 1230 *Pseudoniveomyces*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [Mycobank](#), [GenBank](#)

Pseudoniveomyces Tasanathai, Noisriboom & Kobmoo

The new genus *Pseudoniveomyces* was erected in *Cordycipitaceae* (*Hypocreales*, *Sordariomycetes*, *Ascomycota*) to accommodate *P. blattae* Tasanathai, Noisriboom & Kobmoo as the type species based on morphology and phylogeny using ITS, LSU, *rpb1*, *rpb2*, and *tef1* sequence data (Kobmoo et al. 2023). This genus comprises two species, both found in Thailand. *Pseudoniveomyces blattae* is a hyperparasite, and observed growing on insect fungal parasites of the genus *Ophiocordyceps* on a cockroach. In contrast, *P. arachnovorum* is known to infect the egg sacs of an unidentified spider host. *Pseudoniveomyces* species are characterized by sporothrix-like anamorphs, producing both micro- and macroconidia (or type I and type II conidia, respectively), the latter typically fusoid. Additionally, the production of red diffusible pigments on culture distinguishes this genus from *Niveomyces* (Kobmoo et al. 2023). A multi-locus molecular phylogeny (ITS, LSU, *rpb1*, *rpb2*, and *tef1*) positioned *Pseudoniveomyces* as distantly related to *Niveomyces*, being related and basal to *Gibellula*, *Hevansia*, and *Jenniferia* (Kobmoo et al. 2023). However, the latter genera differ from *Pseudoniveomyces* by having distinct teleomorphs and producing either aspergillus-like (*Gibellula*), or akanthomyces-like (*Hevansia* and *Jenniferia*) anamorphs (Kepler et al. 2017, Mongkolsamrit et al. 2022).

References

- Kepler RM, Luangsa-ard JJ, Hywel-Jones NL, Quandt CA et al. 2017 – A phylogenetically-based nomenclature for *Cordycipitaceae* (*Hypocreales*). IMA Fungus 8, 335–353. <https://doi.org/10.5598/imafungus.2017.08.02.08>
- Kobmoo N, Tasanathai K, Araújo JPM, Noisriboom W et al. 2023 – New mycoparasitic species in the genera *Niveomyces* and *Pseudoniveomyces* gen. nov. (*Hypocreales*: *Cordycipitaceae*), with sporothrix-like asexual morphs, from Thailand. Fungal Systematics and Evolution 12, 91–110. <https://doi.org/10.3114/fuse.2023.12.07>
- Mongkolsamrit S, Noisriboom W, Tasanathai K, Kobmoo N et al. 2022 – Comprehensive treatise of *Hevansia* and three new genera *Jenniferia*, *Parahevansia* and *Polystromomyces* on spiders in *Cordycipitaceae* from Thailand. MycoKeys 91, 113–149. <https://doi.org/10.3897/mycokeys.91.83091>

Entry by

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

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

Published online 8 May 2024