

## Outlineoffungi.org - Note 965 *Niveomyces*

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*Niveomyces* J.P.M. Araújo & C. de Bekker

*Niveomyces* was introduced by Araújo et al. (2022) to accommodate a single species, *Niveomyces coronatus* J.P.M.Araújo & C. de Bekker. The type species was hyperparasitic on *Ophiocordyceps camponoti-floridani*, a ubiquitous entomopathogen of the ant *Camponotus floridanus* in Florida, USA. The sequencing and functional annotation of genome have been performed for *Niveomyces coronatus* (Araújo et al. 2022). A phylogenetic tree based on combined SSU, LSU, *tef-1α*, *rpb1* and *rpb2* sequences revealed that *Niveomyces* formed a unique, distinctive and relatively long-branched clade within *Cordycipitaceae* and is sister to *Pseudogibbellula*. *Niveomyces* was featured with white to pale yellow mycelia that covered its fungal host entirely, multiple, erected, spiky, unbranched synnemata which were encompassed with a layer of conidiogenous cells. The conidiogenous cells are polyblastic, elongate cylindrical, with crowded denticles on the apical part from which globose to ovoid conidia develop. *Niveomyces coronatus* often grow in proximity to *Torrubiellomyces zombiae* which is also hyperparasitic on *Ophiocordyceps camponoti-floridani*. The sexual morph of *Niveomyces* is unknown. The taxonomic placement of *Niveomyces* is in *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes*, *Ascomycota*.

### Reference

Araújo JP, Lebert BM, Vermeulen S, Brachmann A et al. 2022 – Masters of the manipulator: two new hypocrealean genera, *Niveomyces* (*Cordycipitaceae*) and *Torrubiellomyces* (*Ophiocordycipitaceae*), parasitic on the zombie ant fungus *Ophiocordyceps camponoti-floridani*. *Persoonia-Molecular Phylogeny and Evolution of Fungi*. 49, 171–194. <https://doi.org/10.3767/persoonia.2022.49.05>

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