

Outlineoffungi.org - Note 1106 *Fusoidigranularius*

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

Fusoidigranularius W. Dong, H. Zhang & K.D. Hyde

Fusoidigranularius is a monotypic genus, which was transferred from *Annulatascus* based on multigene phylogeny and morphological characteristics by Dong et al. (2021), with *Fusoidigranularius nilensis* (*Annulatascus nilensis*) as the type (Dong et al. 2021). It was collected from submerged stems of *Phragmites australis* in the river Nile in Egypt (Abdel-Wahab et al. 2011). *Fusoidigranularius* is known only sexual morph, and is characterized by immersed, obpyriform, oriented horizontally to the host substrate, black, with an upward bend, growing laterally; peridium multi-layers, comprising of thick-walled, hyaline to dark brown, flattened cells of *textura angularis*; pseudoparaphyses septate, hyaline, unbranched; unitunicate and cylindrical asci with a large, refractive, J-, apical ring, 8-spored; fusoid, septate, hyaline ascospores with a large, gelatinous, irregular, granular sheath (Abdel-Wahab et al. 2011). *Annulatascus nilensis* is different from other members of *Annulatascus* in having immersed ascomata, horizontally to the host substrate and with an upwardly bending neck growing laterally, ascospores with an irregular, granular sheath, combining phylogenetic distinctions *Annulatascus nilensis* was accepted into the newly established genus *Fusoidigranularius* (Abdel-Wahab et al. 2011, Dong et al. 2021). *Fusoidigranularius nilensis* only LSU sequence data (HQ616536) is valuable, recent phylogenetic analysis based on combined LSU, ITS, TEF and RPB2 sequence data showed that *Fusoidigranularius nilensis* formed a single clade in *Annulatascaceae* (*Annulatascascales*, *Sordariomycetes*) with weak bootstrap support (Dong et al. 2021). Currently, only one species, *Fusoidigranularius nilensis*, into *Fusoidigranularius*, which is saprophytic from freshwater habitat (Abdel-Wahab et al. 2011).

References

- Abdel-Wahab MA, Abdel-Aziz FA, Mohamed SS, Abdel-Aziz AE. 2011 – *Annulatascus nilensis* sp. nov., a new freshwater ascomycete from the River Nile, Egypt. *IMA Fungus* 2, 1–6.
- Dong W, Hyde KD, Jeewon R, Doilom M et al. 2021 – Towards a natural classification of annulatascaceae-like taxa II: introducing five new genera and eighteen new species from freshwater. *Mycosphere* 12(1), 1–88.

Entry by

Zong-Long Luo, College of Agriculture and Biological Science, Dali University, Dali 671003, China; School of Science, Mae Fah Luang University, Chiang Rai 57100, Thailand; Center of Excellence in Fungal Research, Mae Fah Luang University, Chiang Rai 57100, Thailand

Published online 15 May 2024