Outlineoffungi.org - Note 886 *Megacoelomyces*

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Megacoelomyces Dianese, Guterres, M.D.M. Santos & G.F. Sepúlveda

Dianese et al (2021) introduced *Megacoelomyces* as a monotypic genus, to accommodate *M. sanchezi* as the type species, based on morphology and analysis of combined ITS and 28S sequence data. *Megacoelomyces sanchezi* was collected on trichomes of living leaves of *Myrcia fenzliana* (*Myrtaceae*) in Brazil (dos Santos et al. 2021). *Megacoelomyces* is known only from its asexual state and is characterized by a large, superficial, barely setose pycnidial conidiomata situated on a loose, trichome-associated subiculum. *Megacoelomyces* resembles *Callistospora* (*Ascomycota incertae sedis*), *Orphanocoela* (*Pezizomycotina incertae sedis*) and *Urohendersoniella* (*Pezizomycotina incertae sedis*) in having pycnidial, dematiaceous coelomycetous morph with appendiculate, phragmosporous, or distoseptate conidia, but the phylogenetic evidence obtained from the analysis of ITS and 28S sequence data show it as a distinct lineage (dos Santos et al. 2021). Based on morphology and phylogenetic evidence, *Megacoelomyces* is a well-supported epiphytic genus in *Phaeosphaeriaceae*, *Pleosporales*, and *Dothideomycetes*

References

Dos Santos MDDM, Guterres DC, Sepúlveda-Chavera GF, Souza ESDC, Pereira-Carvalho R. C, Pinho DB, Dianese JC. 2021 – New genus of trichomatous coelomycete on *Myrcia fenzliana* from the Brazilian Cerrado. Mycologia 113(1),231–244. https://doi.org/10.1080/00275514.2020.1822094

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