

Outlineoffungi.org - Note 1313 *Complexispora*

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Complexispora Błaszcz., B.T. Goto, Niezgoda & Magurno

Complexispora was introduced by Błaszczowski et al. (2023) to describe two new species of Glomeromycotean fungi based on morphology and phylogenetic analyses using 45S and *rpb1* sequence data. The genus was typified by *C. multistratosa* Błaszcz., B.T. Goto, Niezgoda & Magurno and *C. mediterranea* Błaszcz., B.T. Goto, Niezgoda & Magurno is the second species. These recently described species were originally found in the rhizosphere soils of *Ammophila arenaria* (L.) colonized maritime sand dunes on the beach in Greece (Błaszczowski et al. 2023). This new genus was placed within *Glomeraceae* (*Glomerales*, *Glomeromycetes*, *Glomeromycota*). It formed a new clade with high support in a sister position to the *Glomus* clade described under *Complexispora* (Błaszczowski et al. 2023). The etymology refers to the complex spore wall structure of species in this genus and this feature is considered the only morphological structure that appears to be diagnostic for *Complexispora* (Błaszczowski et al. 2023). The morphological characteristics that differentiates this genus of globoid spore-producing species from others in *Glomeraceae* are the presence of a “swelling, colorless, laminate spore wall layer surrounding main, much thicker and structural laminate spore wall layer” (Błaszczowski et al. 2023). Research investigating the diversity of arbuscular mycorrhizal fungi is of utmost importance to reveal the distribution of these new taxa with possible occurrences recorded in other regions of the globe.

Reference

Błaszczowski J, Yamato M, Niezgoda P, Zubek S et al. 2023 – A new genus, *Complexispora*, with two new species, *C. multistratosa* and *C. Mediterranea*, and *Epigeocarpum japonicum* sp. nov.. *Mycological Progress* 22, 34.

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