Outlineoffungi.org - Note 1371 *Bryorutstroemia*

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Bryorutstroemia Sochorová & Baral

Baral et al. (2023) established a new genus *Bryorutstroemia* to accommodate the only species, long-known as *Helotium fulvum* Boud. (Boudier 1897), combining a broad scope of phenetical traits and phylogenetic analyses, as a new member in the family *Sclerotiniaceae* (*Helotiales*, *Leotiomycetes*, *Ascomycota*). The type species of the genus differs from the most similar and closest relatives *Clarireedia*, *Rustroemia* and *Torrendiella* (all apothecial ascomycetes) by its bryophilic lifestyle, and by very thick-walled, though inamyloid ascal apex in dead state. Molecular analysis based on three DNA regions, *viz*. ITS, LSU and *tef*1α, have shown that *Bryorutstroemia* belongs to the paraphyletic families *Sclerotiniaceae* and *Rutstroemiaceae*. Hence, future studies are called upon to better understand the phylogenetic structure of the whole group by expanding phylogenetic sampling on more sclerotiniaceous species, and including more DNA regions in phylogenetic analyses.

References

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Entry by

Neven Matočec & Ivana Kušan, Laboratory for Biological Diversity, Ruđer Bošković Institute, Bijenička cesta 54, HR-10000 Zagreb, Croatia.

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

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