

Outlineoffungi.org – Note 5

Sarea Fr.

The current placement of the taxonomically poorly studied genus *Sarea* was revised by Beimforde et al. (2020). Sequence data from seven phylogenetically informative DNA regions including ribosomal (ITS, nucSSU, mtSSU, nucLSU) and protein-coding (*rpb1*, *rpb2*, *mcm7*) regions were used. The new data were combined with present sequences from major classes in Pezizomycotina, especially *Lecanoromycetes* and *Leotiomycetes*, in three different taxon samplings using Bayesian Inference, maximum likelihood and maximum parsimony to infer phylogenetic relationships. In the phylogenetic analyses, *Sarea* forms an isolated and highly supported phylogenetic lineage with unclear relationships in *Leotiomyceta*. Consequently, a new class, order, and family, *Sareomycetes*, *Sareales* and *Sareaceae* in the *Ascomycota* were proposed to accommodate *Sarea*.

Reference

Beimforde C, Schmidt AR, Rikkinen J, Mitchell JK (2020). *Sareomycetes* cl. nov.: A new proposal for placement of the resinicolous genus *Sarea* (Ascomycota, Pezizomycotina). *Fungal Systematics and Evolution* 6: 25–37.

Entry by

A. Tsurykau, F. Skorina Gomel State University, Department of Biology, Sovetskaja Str. 104, Gomel 246019, Belarus; Samara National Research University, Institute of Natural Sciences, Department of Ecology, Botany and Nature Protection, Moskovskoye shosse 34, Samara 443086, Russia

(Edited by: **H.T. Lumbsch**)