

## Outlineoffungi.org - Note 1356 *Peribolosporales*

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***Peribolosporales*** Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow

The monotypic order *Peribolosporales* was introduced by Witfeld et al. (2023) to accommodate *Peribolosporaceae* Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow. A phylogeny of 38 protein coding genes, orthology analysis, and septal pore type analysis revealed a new genus, *Peribolospora*, with *P. baueri* Witfeld, M.A. Guerreiro, H.D.T. Ngyuen & Begerow as the type species within *Peribolosporaceae*. *Peribolosporales* consists of one family, *Peribolosporaceae*. The taxonomic placement for *Peribolosporales* is within *Peribolosporomycetes* and this class forms a sister lineage to all other members of *Ustilaginomycotina* (Witfeld et al. 2023). The members of this order form hyaline, triangular chlamydospores, distally produced on coiled hyphae, and ovoid and sympodial conidia. Basidiomata and basidiospores have not been observed. The septal pore is simple, without thickened septum membranes (Witfeld et al. 2023). The species of *Peribolosporales* were originally found in forest soils associated with coniferous stands in Canada.

### Reference

Witfeld F, Guerreiro MA, Nitsche F, Wang QM et al. 2023 – *Peribolosporomycetes* class. nov.: description of a new heat resistant and osmotolerant basidiomycete lineage, represented by *Peribolospora* gen. nov., *P. kevripleyi* sp. nov., and *P. baueri* sp. nov. *Mycological Progress* 22, 30.

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