

## Outlineoffungi.org - Note 936 *Ericiomycetaceae*

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### *Ericiomycetaceae* Karpov & Reñé 2021

Karpov et al. (2021) introduced the family *Ericiomycetaceae* to accommodate *Ericiomyces* Karpov & Reñé as a monotypic genus. This genus is typified with *Ericiomyces syringoforeus* Karpov & Reñé, collected as a parasite on *Kryptoperidinium foliaceum* from brackish water in the northern Baltic Sea, Finland. Phylogenetic analysis based on rDNA sequences data revealed a distinct phylogenetic lineage in *Rhizophydiales*, *Chytridiomycetes*, *Chytridiomycota*, so, new family *Ericiomycetaceae* was introduced. Encysted zoospore of *Ericiomyces* contains a special structure called syringe, which probably paralyzes a host. The surface of developing zoosporangium is covered by short, spiny protrusions. Both traits are reflected in the species and generic etymology. The sporangium formed as a lateral outgrowth from the encysted zoospore. Zoospores have kinetosomes with anterior microtubular roots associated with a short basal fibrillar plate, ribosomal core ramified and crossed by endoplasmic reticulum.

### Reference

Karpov SA, Reñé A, Vishnyakov AE, Seto K, Alacid E, Paloheimo A, Kagami M, Kremp A, Garcés E. 2021 – Parasitoid chytridiomycete *Ericiomyces syringoforeus* gen. et sp. nov. has unique cellular structures to infect the host. *Mycological Progress* 20, 95–109 <https://doi.org/10.1007/s11557-020-01652-x>

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