

Outlineoffungi.org - Note 1076 *Polonospora*

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

The genus *Polonospora* was introduced by Błaszczowski et al. (2021) with *Polonospora polonica* (Błaszcz.) Błaszcz. et al. (Basionym: *Acaulospora polonica* Błaszcz. fide Błaszczowski (1988)) as the type species. Phylogenetic analyses based on 18S, ITS, 28S, and RPB1 loci showed that this taxon has a distinct phylogenetic lineage in *Archaeosporales*, *Glomeromycetes*, *Glomeromycota*. The genus is monotypic and was a mycorrhizal species of *Thuja occidentalis* in Poland (Błaszczowski 1988). The genus is characterized by, ‘Forming hypogeous single acaulosporoid glomerospores (= spores) directly on the neck of a sporiferous saccule. Spores are hyaline to white, usually globose to subglobose, with three spore walls. Spore wall 1 consists of a short-lived, evanescent, thin layer, continuous with the wall of the sporiferous saccule, and a permanent, laminate, thicker layer. Spore wall 2 is composed of one permanent, flexible to semi-flexible layer. The spore wall three permanent, coriaceous, and composed of two tightly adherent layers.’ (Błaszczowski et al. 2021).

References

- Błaszczowski J, Niezgoda P, Meller E, Milczarski P et al. 2021 – New taxa in *Glomeromycota*: *Polonosporaceae* fam. nov., *Polonospora* gen. nov., and *P. polonica* comb. nov. *Mycological Progress* 20, 941–951.
- Błaszczowski J. 1988 – Four new species of the *Endogonaceae* (*Zygomycotina*) from Poland. *Karstenia* 27, 37–42.

Entry by

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