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[Antarctolichenia](#) Selbmann, Muggia & Coleine

Based on analysis of combined ITS, LSU and SSU sequence data, Muggia et al. (2021) introduced [Antarctolichenia](#) to accommodate *A. onofrii* Selbmann & Muggia sp. nov. [Antarctolichenia onofrii](#) is a lichen-forming fungus, found within endolithic lichen communities. It was isolated from fragmented endolithic rock samples inoculated in a Petri plate containing medium (Muggia et al. 2021). [Antarctolichenia](#) is a monotypic genus in the family *Phaeococcomycetaceae*, order *Lichenostigmatales*, *Arthoniomycetes*, and Ascomycota. Endolithic, anamorphic fungus. sexual reproduction is not known (Muggia et al. 2021). Heavily melanized colonies grow rather slowly in vitro. Thallus composed of yeast-like cells and filamentous hyphae; yeast-like cells with a thick cell wall, and slightly verrucose in more mature cells, almost hyaline in young stages; filamentous thallus with rectangular cells and more isodiametric cells at the branchings. Occasionally growing together with *Stichococcus*-like algae, but not forming haustoria-like or more organized mycelium or lichen-like thallus structures (Muggia et al. 2021). The ITS single locus confirms the new taxon as a new lineage basal in *Arthoniomycetes* within the *Lichenostigmatales* (Muggia et al. 2021).

Reference

Muggia L, Coleine C, De Carolis R, Cometto A, Selbmann L. 2021 – *Antarctolichenia onofrii* gen. nov. sp. nov. from Antarctic Endolithic Communities Untangles the evolution of rock-inhabiting and lichenized fungi in *Arthoniomycetes*. *Journal of Fungi* 7, 935. <https://doi.org/10.3390/jof7110935>

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