

Outlineoffungi.org - Note 548, [Periplasma](#)

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[Periplasma](#) W.W. Martin & A. Warren

[Periplasma](#) was introduced by [Martin & Warren \(2020\)](#) to accommodate a new organism isolated from a moribund simuliid adult collected in Southeast United States (Virginia). This monotypic genus, typified by [P. isogametum](#), belongs to the order *Leptomitales* (*Oomycota*). [Periplasma isogametum](#) forms a well-supported clade related to but distinct from *Apodachlya*, a member of the *Leptomitales*. *Blastulidium paedophthorum*, a brood parasite of *Daphnia*, clustered with [P. isogametum](#) and other members of the *Leptomitales* in all phylogenetic trees. The discovery and description of [P. isogametum](#) provides new insights into the morphological and phylogenetic diversity of the *Saprolegniomycetes*.

Reference

Martin WW, Warren A 2020 – *Periplasma*, gen. nov., a new oomycete lineage with isogamous sexual reproduction. *Mycologia* 112(5), 989–1002.
<https://www.tandfonline.com/doi/abs/10.1080/00275514.2020.1797385?journalCode=umyc20>

Entry by Iván Sánchez-Castro, Estación Experimental del Zaidín, C.S.I.C., Calle Profesor Albareda 1, 18008 Granada, Spain

(Edited by: **Nalin Wijayawardene**)

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