

Fungal biosurfactants from *Mortierella alpina*.

Baldeweg F, Warncke P, Fischer D, Gressler M (2019) Fungal biosurfactants from *Mortierella alpina*. *Org Lett* 21(5), 1444-1448.

[Details](#)



Abstract

The zygomycete *Mortierella alpina* is a well-known producer of polyunsaturated fatty acids in the food industry. Two series of its secondary metabolites are reported: Malpinins, a family of amphiphilic acetylated hexapeptides, were chemically characterized and serve as natural emulsifiers during lipid secretion. Additionally, hydrophobic cyclopentapeptides, malpibaldins, were structurally elucidated by NMR experiments, and their absolute stereochemistry was elucidated through chemical derivatization and synthesis. This work highlights lower fungi as a novel reservoir for natural products.

Involved units

[Pharmaceutical Microbiology](#) [Dirk Hoffmeister](#) [Read more](#)

Leibniz-HKI-Authors



Florian Baldeweg

[Details](#)



Markus Greßler

[Details](#)

Identifier

doi: 10.1021/acs.orglett.9b00193

PMID: 30789272