Regio- and stereoselective oxidative phenol coupling in *Aspergillus niger.*

Gil Girol C, Fisch KM, Heinekamp T, Günther S, Hüttel W, Piel J, Brakhage AA, Müller M (2012) Regio- and stereoselective oxidative phenol coupling in *Aspergillus niger. Angew Chem Int Ed* 51(39), 9788-9791.

Details

PubMed

Abstract

Piecing it together: Aspergillus niger produces kotanin by dimerization of the monomeric, polyketide-synthase-derived (PKS) 7-demethylsiderin. A combined approach, comprising bioinformatics and gene-deletion experiments, identified the biosynthetic cluster responsible for kotanin production. Homology modeling and substrate docking provide a rationale for the regio- and stereoselective phenol coupling reaction.

Involved units

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Details

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