

Advances in cloning, functional analysis and heterologous expression of fungal polyketide synthase genes.

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Abstract

Fungal polyketides comprise a diverse group of secondary metabolites that play an important role for drug discovery, as pigments, and as mycotoxins. Their biosynthesis is governed by multidomain enzymes, so-called fungal type I polyketide synthases (PKS). Investigating the molecular basis of polyketide biosynthesis in fungi is of great importance for ecological and pharmacological reasons. In addition, cloning, functional analysis and expression of fungal PKS genes also set the basis for engineering the yet largely untapped biosynthetic potential.

Beteiligte Forschungseinheiten

[Biomolekulare Chemie](#) [Christian Hertweck](#) [Mehr erfahren](#)

Leibniz-HKI-Autor*innen



Christian Hertweck

[Details](#)

Identifier

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