Comparative and functional genomics provide insights into the pathogenicity of dermatophytic fungi.

Burmester A, Shelest E, Glöckner G, Heddergott C, Schindler S, Staib P, Heidel A, Felder M, Petzold A, Szafranski K, Feuermann M, Pedruzzi I, Priebe S, Groth M, Winkler R, Li W, Kniemeyer O, Schroeckh V, Hertweck C, Hube B, White TC, Platzer M, Guthke R, Heitman J, Wöstemeyer J, Zipfel PF, Monod M, Brakhage AA (2011) Comparative and functional genomics provide insights into the pathogenicity of dermatophytic fungi. *Genome Biol* 12(1), R7.

Details

PubMed

Abstract

Millions of humans and animals suffer from superficial infections caused by a group of highly specialized filamentous fungi, the dermatophytes, which exclusively infect keratinized host structures. To provide broad insights into the molecular basis of the pathogenicity-associated traits, we report the first genome sequences of two closely phylogenetically related dermatophytes, Arthroderma benhamiae and Trichophyton verrucosum, both of which induce highly inflammatory infections in humans.

Beteiligte Forschungseinheiten

Biomolekulare Chemie Christian Hertweck Mehr erfahren

Mikrobielle Pathogenitätsmechanismen Bernhard Hube Mehr erfahren

Molekulare und Angewandte Mikrobiologie Axel Brakhage Mehr erfahren

Microbiome Dynamics Gianni Panagiotou Mehr erfahren

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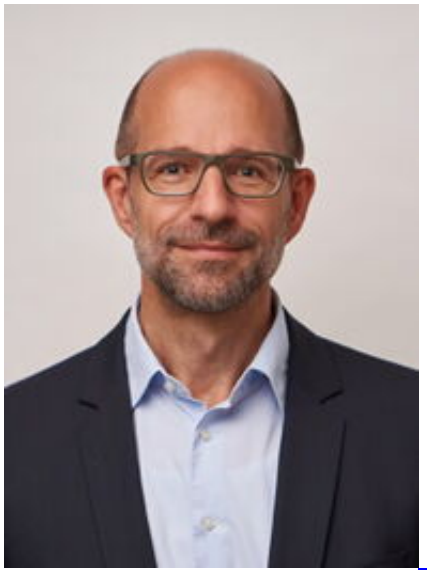
Reinhard Guthke

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Peter F. Zipfel

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Themenfelder

RNA-Seq Datenanalyse und Modellierung

Vorhersage genregulatorischer Elemente und Gencluster in Pilzen

Identifier

doi: 10.1186/gb-2011-12-1-r7

PMID: 21247460