Two-dimensional proteome reference maps for the human pathogenic filamentous fungus *Aspergillus fumigatus*.

Vödisch M, Albrecht D, Lessing F, Schmidt AD, Winkler R, Guthke R, Brakhage AA, Kniemeyer O (2009) Two-dimensional proteome reference maps for the human pathogenic filamentous fungus *Aspergillus fumigatus*. *Proteomics* 9(5), 1407-1415.

Details

PubMed

Abstract

The filamentous fungus Aspergillus fumigatus has become the most important airborne fungal pathogen causing life-threatening infections in immunosuppressed patients. We established a 2-D reference map for A. fumigatus. Using MALDI-TOF-MS/MS, we identified 381 spots representing 334 proteins. Proteins involved in cellular metabolism, protein synthesis, transport processes and cell cycle were most abundant. Furthermore, we established a protocol for the isolation of mitochondria of A. fumigatus and developed a mitochondrial proteome reference map. 147 proteins represented by 234 spots were identified.

Beteiligte Forschungseinheiten

Molekulare und Angewandte Mikrobiologie Axel Brakhage Mehr erfahren

Microbiome Dynamics Gianni Panagiotou Mehr erfahren

International Leibniz Research School Peter F. Zipfel Mehr erfahren

Leibniz-HKI-Autor*innen



Daniela Albrecht-Eckardt

Details



Axel A. Brakhage

Details



Reinhard Guthke

Details



Olaf Kniemeyer

Details



Franziska Lessing

Details



Martin Vödisch

Details

Themenfelder

Management heterogener Experimentaldaten

Identifier

doi: 10.1002/pmic.200800394

PMID: 19253289