Candida albicans scavenges host zinc via Pra1 during endothelial invasion.

Citiulo F, Jacobsen ID, Miramón P, Schild L, Brunke S, Zipfel PF, Brock M, Hube B, Wilson D (2012) *Candida albicans* scavenges host zinc via Pra1 during endothelial invasion. *PLOS Pathog* 8(6), e1002777.

Details

PubMed OPEN ACCESS

Abstract

The ability of pathogenic microorganisms to assimilate essential nutrients from their hosts is critical for pathogenesis. Here we report endothelial zinc sequestration by the major human fungal pathogen, Candida albicans. We hypothesised that, analogous to siderophore-mediated iron acquisition, C. albicans utilises an extracellular zinc scavenger for acquiring this essential metal. We postulated that such a

Involved units

Infection Biology Peter F. Zipfel Read more

Microbial Pathogenicity Mechanisms Bernhard Hube Read more

Microbial Immunology Ilse Jacobsen Read more

Microbial Biochemistry and Physiology Read more

Leibniz-HKI-Authors



Matthias Brock

Details



Sascha Brunke

Details



Francesco Citiulo

Details



Bernhard Hube

Details



Ilse Denise Jacobsen

Details



Lydia Kasper

Details



Pedro Miramón

Details



Duncan Wilson

Details



Peter F. Zipfel

Details

Topics

Nutrient acquisition in infections

Awards

PLoS Pathogens featured article & recommended by Faculty of 1000: special significance (2x)

Identifier

doi: 10.1371/journal.ppat.1002777

PMID: 22761575