

***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](#)



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