

Immune escape of the human facultative pathogenic yeast *Candida albicans*: the many faces of the Candida Pra1 protein.

Zipfel PF, Skerka C, Kupka D, Luo S (2011) Immune escape of the human facultative pathogenic yeast *Candida albicans*: the many faces of the Candida Pra1 protein. *Int J Med Microbiol* 301(5), 423-430.

[PubMed](#)

ILRS Authors

[Shanshan Luo](#)

Projects

Candida albicans-host interaction, the many faces of candida Pra1

[Details](#)

Abstract

Infectious diseases caused by human pathogenic fungi represent a major and global health problem. Based on the limited efficacy of existing drugs and the increasing resistance to antifungal compounds, new strategies are urgently needed to fight such fungal infections. The medically important pathogen *Candida albicans* can exist as an opportunistic yeast, but can also cause severe diseases, septicaemia, and death. In order to establish new strategies to fight *Candida* infections and to interfere with survival of the pathogen, it is highly relevant to understand the molecular and immunology interactions between the pathogen *C. albicans* and the human host. This immune cross talk has moved into the focus of infectious disease research. In this review, we summarize the diverse and multiple levels of the immune cross talk between the fungal pathogen *C. albicans* and the human host. In particular, we define how one single fungal protein Pra1 (pH-regulated antigen 1) interferes and controls host immune attack at multiple levels and thus contributes to fungal immune escape. *Candida* Pra1 represents a promising candidate for immune interference.

Identifier

doi: 10.1016/j.ijmm.2011.04.010 PMID: 21565550