

Publications

Mogavero S, Höfs S, Lauer AN, Müller R, Brunke S, Allert S, Gerwien F, Groth S, Dolk E, Wilson D, Gutschmann T, Hube B (2022) Candidalysin is the hemolytic factor of *Candida albicans*. *Toxins (Basel)* 14(12), 874.

Correia I, Wilson D, Hube B, Pla J (2020) Characterization of a *Candida albicans* mutant defective in all MAPKs highlights the major role of hog1 in the MAPK signaling network. *J Fungi (Basel)* 6(4), E230.

Costa ACBP, Back-Brito GN, Mayer FL, Hube B, Wilson D (2020) *Candida albicans* Mrv8, is involved in epithelial damage and biofilm formation. *FEMS Yeast Res* 20(5), foaa033.

Crawford AC, Lehtovirta-Morley LE, Alamir O, Niemiec MJ, Alawfi B, Alsarraf M, Skrahina V, Costa ACBP, Anderson A, Yellagunda S, Ballou ER, Hube B, Urban CF, Wilson D (2018) Biphasic zinc compartmentalisation in a human fungal pathogen. *PLoS Pathog* 14(5), e1007013.

Richardson JP, Mogavero S, Moyes DL, Blagojevic M, Krüger T, Verma AH, Coleman BM, De La Cruz Diaz J, Schulz D, Ponde NO, Carrano G, Kniemeyer O, Wilson D, Bader O, Enoiu SI, Ho J, Kichik N, Gaffen SL, Hube B, Naglik JR (2018) Processing of *Candida albicans* Ece1p is critical for Candidalysin maturation and fungal virulence. *mBio* 9(1), e02178-17.

Malavia D, Lehtovirta-Morley LE, Alamir O, Weiß E, Gow NAR, Hube B, Wilson D (2017) Zinc limitation induces a hyper-adherent goliath phenotype in *Candida albicans*. *Front Microbiol* 8, 2238.

Wilson D, Naglik JR, Hube B (2016) The missing link between *Candida albicans* hyphal morphogenesis and host cell damage. *PLoS Pathog* 12(10), e1005867. (Review)

Kasper L, Miramón P, Jablonowski N, Wisgott S, Wilson D, Brunke S, Hube B (2015) Antifungal activity of clotrimazole against *Candida albicans* depends on carbon sources, growth phase, and morphology. *J Med Microbiol* 64, 714-723.

Mech F, Wilson D, Lehnert T, Hube B, Figge MT (2014) Epithelial invasion outcompetes hypha development during *Candida albicans* infection as revealed by an image-based systems biology approach. *Cytometry A* 85(2), 126-139.

Tyc KM, Kühn C, Wilson D, Klipp E (2014) Assessing the advantage of morphological changes in *Candida albicans*: a game theoretical study. *Front Microbiol* 5, 41.

Wilson D, Mayer FL, Miramón P, Citiulo F, Slesiona S, Jacobsen ID, Hube B (2014) Distinct roles of *Candida albicans*-specific genes in host-pathogen interactions. *Eukaryot Cell* 13(8), 977-989.

Mayer FL, Wilson D, Hube B (2013) Hsp21 potentiates antifungal drug tolerance in *Candida albicans*. *PLoS One* 8(3), e60417.

Mayer FL, Wilson D, Hube B (2013) *Candida albicans* pathogenicity mechanisms. *Virulence* 4(2), 119-128. (Review)

Wilson D, Hebecker B, Moyes DL, Miramón P, Jablonowski N, Wisgott S, Allert S, Naglik JR, Hube B (2013) Clotrimazole dampens vaginal inflammation and neutrophil infiltration in response

to *Candida albicans* infection. *Antimicrob Agents Chemother* 57(10), 5178-5180.

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.

Jacobsen ID, Wilson D, Wächtler B, Brunke S, Naglik JR, Hube B (2012) *Candida albicans* dimorphism as a therapeutic target. *Expert Rev Anti Infect Ther* 10(1), 85-93. (Review)

Mayer FL, Wilson D, Jacobsen ID, Miramón P, Große K, Hube B (2012) The novel *Candida albicans* transporter Dur31 Is a multi-stage pathogenicity factor. *PLOS Pathog* 8(3), e1002592.

Mayer FL, Wilson D, Jacobsen ID, Miramón P, Slesiona S, Bohovych IM, Brown AJ, Hube B (2012) Small but crucial: the novel small heat shock protein Hsp21 mediates stress adaptation and virulence in *Candida albicans*. *PLOS One* 7(6), e38584.

Wächtler B, Citiulo F, Jablonowski N, Förster S, Dalle F, Schaller M, Wilson D, Hube B (2012) *Candida albicans*-epithelial interactions: dissecting the roles of active penetration, induced endocytosis and host factors on the infection process. *PLOS One* 7(5), e36952.

Wilson D, Citiulo F, Hube B (2012) Zinc exploitation by pathogenic fungi. *PLOS Pathog* 8(12), e1003034. (Review)

Martin R, Wächtler B, Schaller M, Wilson D, Hube B (2011) Host-pathogen interactions and virulence-associated genes during *Candida albicans* oral infections. *Int J Med Microbiol* 301(5), 417-422. (Review)

Müller S, Fleck CB, Wilson D, Hummert C, Hube B, Brock M (2011) Gene acquisition, duplication and metabolic specification: the evolution of fungal methylisocitrate lyases. *Environ Microbiol* 13(6), 1534-1548.

Seider K, Brunke S, Schild L, Jablonowski N, Wilson D, Majer O, Barz D, Haas A, Kuchler K, Schaller M, Hube B (2011) The facultative intracellular pathogen *Candida glabrata* subverts macrophage cytokine production and phagolysosome maturation. *J Immunol* 187(6), 3072-3086.

Wächtler B, Wilson D, Haedicke K, Dalle F, Hube B (2011) From attachment to damage: defined genes of *Candida albicans* mediate adhesion, invasion and damage during interaction with oral epithelial cells. *PLOS One* 6(2), e17046.

Wächtler B, Wilson D, Hube B (2011) *Candida albicans* adhesion to and invasion and damage of vaginal epithelial cells: stage-specific inhibition by clotrimazole and bifonazole. *Antimicrob Agents Chemother* 55(9), 4436-4439.

Wilson D, Mayer F, Hube B (2011) Gene expression during the distinct stages of Candidiasis. In: Calderone RA, Clancy CJ (eds.) *Candida and Candidiasis*. 2. Ed.. pp. 283-298. ASM Press.

Dalle F, Wächtler B, L'Ollivier C, Holland G, Bannert N, Wilson D, Labruère C, Bonnin A, Hube B (2010) Cellular interactions of *Candida albicans* with human oral epithelial cells and enterocytes. *Cell Microbiol* 12(2), 248-271.

Linde J, Wilson D, Hube B, Guthke R (2010) Regulatory network modelling of iron acquisition by a fungal pathogen in contact with epithelial cells. *BMC Syst Biol* 4, 148.

Wilson D, Fiori A, Brucker KD, Dijck PV, Stateva L (2010) *Candida albicans* Pde1p and Gpa2p comprise a regulatory module mediating agonist-induced cAMP signalling and environmental adaptation. *Fungal Genet Biol* 47(9), 742-752.

Wilson D, Hube B (2010) Hgc1 mediates dynamic *Candida albicans*-endothelium adhesion events during circulation. *Eukaryot Cell* 9(2), 278-287.

Almeida RS, Wilson D, Hube B (2009) *Candida albicans* iron acquisition within the host. *FEMS Yeast Res* 9(7), 1000-1012.

Domin N, Wilson D, Brock M (2009) Methylcitrate cycle activation during adaptation of *Fusarium solani* and *Fusarium verticillioides* to propionyl-CoA-generating carbon sources. *Microbiology* 155(Pt 12), 3903-3912.

Zakikhany K, Thewes S, Wilson D, Martin R, Albrecht A, Hube B (2008) From attachment to invasion: infection associated genes of *Candida albicans*. *Nihon Ishinkin Gakkai Zasshi* 49(4), 245-251.

*equal contribution #corresponding author