

Andreas Thywissen

Projects

Former Projects

Molecular mechanisms of the interaction between *Aspergillus fumigatus* and alveolar macrophages
Details

Publications

Schmidt F, Thywißen A, Goldmann M, Cunha C, Cseresnyés Z, Schmidt H, Rafiq M, Galiani S, Gräler MH, Chamilos G, Lacerda JF, Campos A, Eggeling C, Figge MT, Heinekamp T, Filler SG, Carvalho A, Brakhage AA (2020) Flotillin-Dependent Membrane Microdomains Are Required for Functional Phagolysosomes against Fungal Infections. *Cell Rep* 32(7), 108017. Details PubMed

Kroll K, Shekhova E, Mattern DJ, Thywissen A, Jacobsen ID, Strassburger M, Heinekamp T, Shelest E, Brakhage AA, Kniemeyer O (2016) The hypoxia-induced dehydrogenase HorA is required for coenzyme Q10 biosynthesis, azole sensitivity and virulence of *Aspergillus fumigatus*. *Mol Microbiol* , Details PubMed

Amin S, Thywissen A, Heinekamp T, Saluz HP, Brakhage AA (2014) Melanin dependent survival of

Apergillus fumigatus conidia in lung epithelial cells. *Int J Med Microbiol* 304(5-6), 626-636. Details PubMed

Shopova I, Bruns S, Thywissen A, Kniemeyer O, Brakhage AA, Hillmann F (2013) Extrinsic extracellular DNA leads to biofilm formation and colocalizes with matrix polysaccharides in the human pathogenic fungus *Aspergillus fumigatus*. *Front Microbiol* 4, 141. Details PubMed

Heinekamp T, Thywißen A, Macheleidt J, Keller S, Valiante V, Brakhage AA (2012) *Aspergillus fumigatus* melanins: interference with the host endocytosis pathway and impact on virulence. *Front Microbiol* 3, 440. Details PubMed

Mech F, Thywissen A, Guthke R, Brakhage AA, Figge MT (2011) Automated image analysis of the host-pathogen interaction between phagocytes and *Aspergillus fumigatus*. *PLoS One* 6(5), e19591. Details PubMed

Thywißen A, Heinekamp T, Dahse HM, Schmaler-Ripcke J, Nietzsche S, Zipfel PF, Brakhage AA (2011) Conidial Dihydroxynaphthalene Melanin of the Human Pathogenic Fungus *Aspergillus fumigatus* Interferes with the Host Endocytosis Pathway. *Front Microbiol* 2, 96. Details PubMed

Volling K, Thywissen A, Brakhage AA, Saluz HP (2011) Phagocytosis of melanized Aspergillus conidia by macrophages exerts cytoprotective effects by sustained PI3K/Akt signalling. *Cell Microbiol* 13(8), 1130-1148. Details PubMed

Brakhage AA, Bruns S, Thywissen A, Zipfel PF, Behnsen J (2010) Interaction of phagocytes with filamentous fungi. *Curr Opin Microbiol* 13(4), 409-415. Details PubMed

Bruns S, Kniemeyer O, Hasenberg M, Aimanianda V, Nietzsche S, Thywissen A, Jeron A, Latgé JP, Brakhage AA, Gunzer M (2010) Production of extracellular traps against *Aspergillus fumigatus* in vitro and in infected lung tissue is dependent on invading neutrophils and influenced by hydrophobin RodA. *PLoS Pathog* 6(4), e1000873. Details PubMed