

Dr. Juliane Macheleidt

Alumni

Publications

Macheleidt J, Kniemeyer O (2021) Serological proteome analysis for the characterization of secreted fungal protein antigens. In: Methods Mol Biol (ed.) Host-Fungal Interactions 2260, pp. 15-26. Springer, Heidelberg. ISBN: ISBN 978-1-0716.

[Details](#)



Hartung S, Rauh C, Hoang TNM, Jahreis S, Wagner K, Macheleidt J, Brakhage AA, Rummeler S, Hochhaus A, von Lilienfeld-Toal M (2019) Fast and quantitative evaluation of human leukocyte interaction with *Aspergillus fumigatus* conidia by flow cytometry. *Cytometry A* 95(3), 332-338.

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Shekhova E, Ivanova L, Krüger T, Stroe MC, Macheleidt J, Kniemeyer O, Brakhage AA (2019) Redox proteomic analysis reveals oxidative modifications of proteins by increased levels of intracellular reactive oxygen species during hypoxia adaptation of *Aspergillus fumigatus*. *Proteomics* 19(5), e1800339.

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Zhao C, Fraczek M, Dineen L, Lebedinec R, Macheleidt J, Heinekamp T, Delneri D, Bowyer P, Brakhage AA, Bromley M (2019) High throughput gene replacement in *Aspergillus fumigatus*. *Curr Protoc Microbiol* 54(1), e88.

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Baccile JA, Spraker JE, Le HH, Brandenburger E, Gomez C, Bok JW, Macheleidt J, Brakhage AA, Hoffmeister D, Keller NP, Schroeder FC (2016) Plant-like biosynthesis of isoquinoline alkaloids in *Aspergillus fumigatus*. *Nat Chem Biol* 12, 419-424.

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Macheleidt J, Mattern DJ, Fischer J, Netzker T, Weber J, Schroeckh V, Valiante V, Brakhage AA (2016) Regulation and Role of Fungal Secondary Metabolites. *Annu Rev Genet* 50, 371-392. (Review)

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Macheleidt J, Scherlach K, Neuwirth T, Schmidt-Heck W, Straßburger M, Spraker J, Baccile JA, Schroeder FC, Keller NP, Hertweck C, Heinekamp T, Brakhage AA (2015) Transcriptome analysis of cAMP-dependent protein kinase A regulated genes reveals the production of the novel natural compound fumipyrrole by *Aspergillus fumigatus* *Mol Microbiol* 96(1), 148-162.

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Valiante V, Macheleidt J, Föge M, Brakhage AA (2015) The *Aspergillus fumigatus* cell wall integrity signaling pathway: drug target, compensatory pathways, and virulence. *Front Microbiol* 6, 325. (Review)

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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.

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Keller S, Macheleidt J, Scherlach K, Schmaler-Ripcke J, Jacobsen ID, Heinekamp T, Brakhage AA (2011) Pyomelanin formation in *Aspergillus fumigatus* requires HmgX and the transcriptional activator HmgR but is dispensable for virulence. *PLOS One* 6(10), e26604.

[Details](#)



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