

Dr. Sandra Höfgen

Alumni

Publications

Jojić K*, Gherlone F*, Cseresnyés Z, Bissell AU, Hoefgen S, Hoffmann S, Huang Y, Janevska S, Figge MT, Valiante V (2024) The spatial organization of sphingofungin biosynthesis in *Aspergillus fumigatus* and its cross-interaction with sphingolipid metabolism. *mBio* 15(3), e0019524.

[Details](#)



Bissell AU, Rautschek J, Hoefgen S, Raguž L, Mattern DJ, Saeed N, Janevska S, Jojić K, Huang Y, Kufs JE, Herboeck B, Guo H, Hillmann F, Beemelmans C, Valiante V (2022) Biosynthesis of the sphingolipid inhibitors sphingofungins in filamentous fungi requires aminomalonnate as a metabolic precursor. *ACS Chem Biol* 17(2), 386-394.

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Hoefgen S, Bissell AU, Huang Y, Gherlone F, Raguž L, Beemelmans C, Valiante V (2022) Desaturation of the sphingofungin polyketide tail results in increased serine palmitoyltransferase inhibition. *Microbiol Spectr* 10(5), e0133122.

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Maehler D, Hoefgen S, Münchberg U, Schmitz OJ, Rautschek J, Huang Y, Freier E, Valiante V (2022) Time-resolved multiparameter analytics on a cell-free production platform for acyl-CoA precursors. *Anal Sci Adv* 3, 289-296.

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Huang Y, Höfgen S, Valiante V (2021) Biosynthesis of fungal drimane-type sesquiterpene esters. *Angew Chem Int Ed* 60(44), 23763-23770.

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Furukawa T, Scheven MT, Misslinger M, Zhao C, Hoefgen S, Gsaller F, Lau J, Jöchl C, Donaldson I, Valiante V, Brakhage AA, Bromley MJ, Haas H, Hortschansky P (2020) The fungal CCAAT-binding complex and HapX display highly variable but evolutionary conserved synergetic promoter-specific DNA recognition. *Nucleic Acids Res* 48(7), 3567-3590.

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Janevska S, Ferling I, Jojić K, Rautschek J, Hoefgen S, Proctor RH, Hillmann F, Valiante V (2020) Self-protection against the sphingolipid biosynthesis inhibitor fumonisin B1 is conferred by a *FUM* cluster-encoded ceramide synthase. *mBio* 11(3), e00455-20.

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Köhler T, Heida T, Hoefgen S, Weigel N, Valiante V, Thiele J (2020) Cell-free protein synthesis and *in situ* immobilization of deGFP-MatB in polymer microgels for malonate-to-malonyl CoA conversion. *RSC Adv* 10, 40588-40596.

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Krishnan BP, Prieto-Lopez LO, Hoefgen S, Xue L, Wang S, Valiante V, Cui J (2020) A thermo-magneto-responsive smart biocatalyst for malonyl Coenzyme A synthesis. *ACS Appl Mater Interfaces* 12(18), 20982-20990.

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Kufs JE, Hoefgen S, Rautschek J, Bissell AU, Graf C, Fiedler J, Braga D, Regestein L, Rosenbaum MA, Thiele J, Valiante V (2020) Rational design of flavonoid production routes using combinatorial and precursor-directed biosynthesis. *ACS Synth Biol* 9(7), 1823-1832.

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