

Dirk Hoffmeister

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Curriculum vitae

Main Research Areas

- Biochemical and genetic basis of fungal natural product biosyntheses
- Natural products of basidiomycetes and *Ralstonia solanacearum*
- Microbial nonribosomal peptide synthetases

Professional Career

2014- Full Professor for Pharmaceutical Microbiology,

	FSU Jena and HKI Jena
2009-2014	Associate Professor for Pharmaceutical Biology, FSU Jena and head of the associated department Pharmaceutical Biology at the HKI Jena
2007-2009	Assistant Professor (tenure track) University of Minnesota, Saint Paul, MN, USA
2008	Habilitation in Pharmaceutical Biology and Biotechnology, Albert-Ludwigs-University Freiburg
2004-2007	Junior Group Leader, Institute for Pharmacy, Albert-Ludwigs-University, Freiburg
2002-2004	Postdoc, University of Wisconsin, Madison, WI, USA (DFG-fellowship)
2002	Dr. rer. nat., Faculty of Chemistry and Pharmacy, Albert-Ludwigs-University, Freiburg
1998	Diploma in biology at the Eberhard-Karls-University, Tübingen

Awards · Appointments · Scientific Activities

Since 2020	Head of the Institute for Pharmacy, FSU Jena
2016-2019	Dean for Study Affairs in the Faculty of Biology and Pharmacy, FSU Jena
2013-2016	Scientific advisory board, Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM).

Publications

Hudspeth J, Rogge K, Dörner S, Müll M, Hoffmeister D, Rupp B, Werten S (2024) Methyl transfer in psilocybin biosynthesis *Nat Commun* [Accepted]

Details

Schäfer T, Haun F, Gressler M, Spiteller P, Hoffmeister D (2024) Parallel evolution of Asco- and Basidiomycete *O*-Prenyltransferases. *J Nat Prod* [Accepted]

Details

Löhr NA, Rakhmanov M, Wurlitzer JM, Lackner G, Gressler M, Hoffmeister D (2023) Basidiomycete non-reducing polyketide synthases function independently of SAT domains. *Fungal Biol Biotechnol* 10(1), 17.

Details

Schäfer E, Seibold PS, Bartram S, Trottmann F, Hänsch V, Gressler M, Chadeayne A, Hertweck C, O'Connor S, Hoffmeister D (2023) A "Magic Mushroom" multi-product sesquiterpene synthase. *ChemBioChem* 24(21), e202300511.

Details

Seibold PS, Lawrinowitz S, Raztsou I, Gressler M, Arndt HD, Stallforth P, Hoffmeister D (2023) Bifurcate evolution of quinone synthetases in basidiomycetes. *Fungal Biol Biotechnol* 10(1), 14.

Details

Wein P, Dornblut K, Herkersdorf S, Krüger T, Molloy EM, Brakhage AA, Hoffmeister D, Hertweck C (2023) Bacterial secretion systems contribute to rapid tissue decay in button mushroom soft rot disease. *mBio* 14(4), e0078723.

Details

Yang YL, Zhou M, Yang L, Gressler M, Rassbach J, Wurlitzer JM, Zeng Y, Gao K, Hoffmeister D (2023) A mushroom P450-monooxygenase enables regio- and stereoselective biocatalytic synthesis of epoxycyclohexenones. *Angew Chem Intl Ed* 62(49), e202313817.

Details

Dörner S, Rogge K, Fricke J, Schäfer T, Wurlitzer JM, Gressler M, Pham DNK, Manke DR, Chadeayne AR, Hoffmeister D (2022) Genetic survey of *Psilocybe* natural products. *ChemBioChem* 23(14), e202200249.

Details

Ezediokpu MN, Krause K, Kunert M, Hoffmeister D, Boland W, Kothe E (2022) Ectomycorrhizal influence on the dynamics of sesquiterpene release by *Tricholoma vaccinum. J Fungi (Basel)* 8(6), 555.

Details

Kreuzenbeck NB, Seibel E, Schwitalla JW, Fricke J, Conlon BH, Schmidt S, Hammerbacher A, Köllner TG, Poulsen M, Hoffmeister D, Beemelmanns C (2022) Comparative genomic and metabolomic analysis of *Termitomyces* species provides insights into the terpenome of the fungal cultivar and the characteristic odor of the fungus garden of *Macrotermes natalensis* termites. *mSystems* 7(1), e0121421.

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News



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