



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,

2009-2014	FSU Jena and HKI Jena 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* 15(1), 2709.

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Schäfer T, Haun F, Gressler M, Spiteller P, Hoffmeister D (2024) Parallel evolution of Asco- and Basidiomycete *O*-Prenyltransferases. *J Nat Prod* 87(3), 576-582.

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Seibold PS, Dörner S, Fricke J, Schäfer T, Beemelmans C, Hoffmeister D (2024) Genetic regulation of L-tryptophan metabolism in *Psilocybe mexicana* supports psilocybin biosynthesis *Fungal Biol Biotechnol* 11(4),

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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