

Daniel Heine

Alumni

Publications

Dörfer M, Heine D, König S, Gore S, Werz O, Hertweck C, Gressler M, Hoffmeister D (2019) Melleolides impact fungal translation via elongation factor 2. *Org Biomol Chem* 17(19), 4906-4916.

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Heine D, Holmes NA, Worsley SF, Santos ACA, Innocent TM, Scherlach K, Patrick EH, Yu DW, Murrell JC, Viera PC, Boomsma JJ, Hertweck C, Hutchings MI, Wilkinson B (2018) Chemical warfare between leafcutter ant symbionts and a co-evolved pathogen. *Nat Commun* 9(1), 2208.

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Sundaram S, Kim HJ, Bauer R, Thongkongkaew T, Heine D, Hertweck C (2018) On-line polyketide cyclization into diverse medium-sized lactones by a specialized ketosynthase domain. *Angew Chem Int Ed* 57(35), 11223-11227.

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Heine D, Sundaram S, Beudert M, Martin K, Hertweck C (2016) A widespread bacterial phenazine forms conjugates with biogenic thiols and crosslinks proteins. *Chem Sci* 7, 4848-4855.

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Ueberschaar N, Heine D, Hertweck C (2016) Zinc(II)-Assisted Aryl-Finkelstein-Reaction for the Synthesis of Aryl Iodides. *Synlett* 27, 1794-1797.

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Wick J, Heine D, Lackner G, Misiek M, Tauber J, Jagusch H, Hertweck C, Hoffmeister D (2016)

A fivefold parallelized biosynthetic process secures chlorination of *Armillaria mellea* (honey mushroom) toxins. *Appl Environ Microbiol* 82, 1196-1204.

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Braesel J, Götze S, Shah F, Heine D, Tauber J, Hertweck C, Tunlid A, Stallforth P, Hoffmeister D (2015) Three redundant synthetases secure redox-active pigment production in the basidiomycete *Paxillus involutus*. *Chem Biol* 22, 1325-1334.

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Gressler M, Meyer F, Heine D, Hortschansky P, Hertweck C, Brock M (2015) Phytotoxin production in *Aspergillus terreus* is regulated by independent environmental signals. *eLife* 4, e07861.

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Heine D, Sundaram S, Bretschneider T, Hertweck C (2015) Twofold polyketide branching by a stereoselective enzymatic Michael addition *Chem Commun (Camb)*. 51(48), 9872-9875.

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Sundaram S, Heine D, Hertweck C (2015) Polyketide synthase chimeras reveal key role of ketosynthase domain in chain branching *Nat Chem Biol.* 11(12), 949-951.

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Page 1 of 2

- **1**
- [2](#)
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