



Sarah Niehs

Email: sarah.niehs@leibniz-hki.de

Genomics-based search for natural products in neglected bacteria

Publications

Büttner H, Niehs SP, Vandellannoote K, Cseresnyés Z, Dose B, Richter I, Gerst R, Figge MT, Stinear TP, Pidot SJ, Hertweck C (2021) Bacterial endosymbionts protect beneficial soil fungus from nematode attack. *Proc Natl Acad Sci U S A* 118(37), [Details PubMed](#)

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Niehs SP, Kumpfmüller J, Dose B, Little RF, Ishida K, Florez LV, Kaltenpoth M, Hertweck C (2020) Insect-Associated Bacteria Assemble the Antifungal Butenolide Gladiofungin by Non-Canonical Polyketide Chain Termination *Angew Chem Int Ed* [Epub ahead of print] [Details PubMed](#)

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Endopyrroles from a Nonribosomal Peptide Assembly Line Triggered in Fungal-Bacterial Symbiosis. *ACS Chem Biol* 14(8), 1811-1818. [Details PubMed](#)

Dose B, Niehs SP, Scherlach K, Flórez LV, Kaltenpoth M, Hertweck C (2018) Unexpected Bacterial Origin of the Antibiotic Icosalide: Two-Tailed Depsipeptide Assembly in Multifarious Burkholderia Symbionts. *ACS Chem Biol* 13(9), 2414-2420. [Details PubMed](#)

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Niehs SP, Scherlach K, Hertweck C (2018) Genomics-driven discovery of a linear lipopeptide promoting host colonization by endofungal bacteria. *Org Biomol Chem* 16(37), 6967-6974. [Details PubMed](#)

Supervisor

[Christian Hertweck](#)

Start of PhD

March 1, 2016

Doctoral Disputation

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