

Publications

Richter I, Hasan M, Kramer JW, Wein P, Krabbe J, Woitas KP, Stinear TP, Pidot SJ, Kloss F, Hertweck C, Lackner G (2024) Deazaflavin metabolite produced by endosymbiotic bacteria controls fungal host reproduction. *ISME J* 18(1), wrae074.

Büttner H, Hörl J, Krabbe J, Hertweck C (2023) Discovery and biosynthesis of anthrochelin, a growth-promoting metallophore of the human pathogen *Luteibacter anthropi*. *Chembiochem* 24(17), e202300322.

Ehinger F, Niehs S, Dose B, Dell M, Krabbe J, Pidot SJ, Stinear TP, Scherlach K, Ross C, Lackner G, Hertweck C (2023) Analysis of rhizonin biosynthesis reveals origin of pharmacophoric furylalanine moieties in diverse cyclopeptides. *Angew Chem Int Ed Engl* 62(42), e202308540.

Richter I, Wein P, Uzum Z, Stanley CE, Krabbe J, Molloy EM, Moebius N, Ferling I, Hillmann F, Hertweck C (2023) Transcription activator-like effector protects bacterial endosymbionts from entrapment within fungal hyphae. *Curr Biol* 33(13), 2646-2656.e4..

Gude F, Molloy EM, Horch T, Dell M, Dunbar KL, Krabbe J, Groll M, Hertweck C (2022) A specialized polythioamide-binding protein confers antibiotic self-resistance in anaerobic bacteria. *Angew Chem Int Ed* 61(37), e202206168.

Dose B, Thongkongkaew T, Zopf D, Kim HJ, Bratovanov EV, García-Altare M, Scherlach K, Kumpfmüller J, Ross C, Hermenau R, Niehs S, Silge A, Hniopek J, Schmitt M, Popp J, Hertweck C (2021) Multimodal molecular imaging and identification of bacterial toxins causing mushroom soft rot and cavity disease. *Chembiochem* 22(19), 2901-2907.

Molloy EM, Dell M, Haensch VG, Dunbar KL, Feldmann R, Oberheide A, Seyfarth L, Kumpfmüller J, Horch T, Arndt HD, Hertweck C (2021) Enzyme-primed native chemical ligation produces autoinducing cyclopeptides in clostridia. *Angew Chem Int Ed* 60(19), 10670-10679.

Dunbar KL, Dell M, Molloy EM, Büttner H, Kumpfmüller J, Hertweck C (2020) An unexpected split-merge pathway to the symmetric nonribosomal peptide antibiotic clostioamide. *Angew Chem Int Ed* 60(8), 4104-4109.

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* 59(51), 23122-23126.

Dunbar KL, Büttner H, Molloy EM, Dell M, Kumpfmüller J, Hertweck C (2018) Genome editing reveals novel thiotemplated assembly of polythioamide antibiotics in anaerobic bacteria. *Angew Chem Int Ed* 57(43), 14080-14084.

Kumpfmüller J, Methling K, Fang L, Pfeifer BA, Lalk M, Schweder T (2016) Production of the polyketide 6-deoxyerythronolide B in the heterologous host *Bacillus subtilis*. *Appl Microbiol Biotechnol* 100(3), 1209-1220.

