Maria Dell

Alumni

Publications

Dell M, Tran MA, Capper MJ, Sundaram S, Fiedler J, Koehnke J, Hellmich UA, Hertweck C (2023) Trapping of a polyketide synthase module after C-C bond formation reveals transient acyl carrier domain interactions. *Angew Chem Int Ed Engl* 63(9), e202315850.

Details

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.

Details

Dell M, Dunbar KL, Hertweck C (2022) Ribosome-independent peptide biosynthesis: the challenge of a unifying nomenclature. *Nat Prod Rep* 39(3), 453-459. (Review)

Details

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.

Details

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.

Details

Dunbar KL, Dell M, Gude F, Hertweck C (2020) Reconstitution of polythioamide antibiotic backbone formation reveals unusual thiotemplated assembly strategy. *Proc Nat Acad Sci USA* 117(16), 8850-8858.

Details

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

Details

Dunbar KL, Dell M, Molloy EM, Kloss F, Hertweck C (2019) Reconstitution of iterative thioamidation in closthioamide biosynthesis reveals a novel nonribosomal peptide backbone-tailoring strategy. *Angew Chem Int Ed* 58(37), 13014-13018.

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Molloy EM, Dell M, Hertweck C (2019) Discovery of amidotemplated natural product assembly. *Biochemistry* 58(46), 4583-4584. (Review)

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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.

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Publication list as PDF