

Dr. Kyle Dunbar

Alumni

Publications

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](#)





Horch T, Molloy EM, Bredy F, Haensch VG, Scherlach K, Dunbar KL, Franke J, Hertweck C (2022) Alternative benzoxazole assembly discovered in anaerobic bacteria provides access to privileged heterocyclic scaffold. *Angew Chem Int Ed* 61(32), e202205409.

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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.

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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.

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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.

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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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Litomska A, Ishida K, Dunbar KL, Boettger M, Coyne S, Hertweck C (2018) Enzymatic thioamide formation in a bacterial antimetabolite pathway. *Angew Chem Int Ed* 57(36), 11574-11578.

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Dunbar KL, Scharf DH, Litomska A, Hertweck C (2017) Enzymatic Carbon-Sulfur Bond Formation in Natural Product Biosynthesis. *Chem Rev* 117(8), 5521-5577. (Review)

[Details](#)



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