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Publications

Trottmann F, Fiedler J, Ishida K, Ishida-Ito M, Little RF, Hertweck C (2023) Bacterial pathogen channels medium-sized fatty acids into malleicyprol biosynthesis. *ACS Chem Biol* 18(7), 1557-1563.

Details

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Kim HJ, Ishida K, Ishida-Ito M, Hertweck C (2022) Sequential allylic alcohol formation by a multifunctional cytochrome P450 monooxygenase with rare redox partners. *Angew Chem Int Ed* 61(26), e202203264.

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Trottmann F, Ishida K, Ishida-Ito M, Kries H, Groll M, Hertweck C (2022) Pathogenic bacteria remodel central metabolic enzyme to build a cyclopropanol warhead. *Nat Chem* 14(8), 884-890.

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Trottmann F, Ishida K, Franke J, Stanišić A, Ishida-Ito M, Kries H, Pohnert G, Hertweck C (2020) Sulfonium acids loaded onto an unusual thiotemplate assembly line construct the cyclopropanol warhead of a *Burkholderia* virulence factor. *Angew Chem Int Ed* 59(32), 13511-13515.

Details



PAPER

Hermenau R, Mehl JL, Ishida K, Dose B, Ishida-Ito M, Pidot SJ, Stinear TP, Hertweck C (2019) Genomics-driven discovery of NO-donating diazeniumdiolate siderophores in diverse plant-associated bacteria. *Angew Chem Int Ed* 58(37), 13024-13029.

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Schieferdecker S, Shabuer G, Letztel AC, Urbansky B, Ishida-Ito M, Ishida K, Cyrulies M, Dahse HM, Pidot S, Hertweck C (2019) Biosynthesis of diverse antimicrobial and antiproliferative acyloins in anaerobic bacteria. *ACS Chem Biol* 14(7), 1490-1497.

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Kugel S, Baunach M, Baer P, Ishida-Ito M, Sundaram S, Xu Z, Groll M, Hertweck C (2017) Cryptic indole hydroxylation by a non-canonical terpenoid cyclase parallels bacterial xenobiotic detoxification. *Nat Commun* 8, 15804.

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Chankhamjon P, Tsunematsu Y, Ishida-Ito M, Sasa Y, Meyer F, Boettger-Schmidt D, Urbansky B, Menzel KD, Scherlach K, Watanabe K, Hertweck C (2016) Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. *Angew Chem Int Ed* 55(39), 11955-11959.

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Lincke T, Behnken S, Ishida K, Roth M, Hertweck C (2010) Closthioamide: an unprecedented polythioamide antibiotic from the strictly anaerobic bacterium Clostridium cellulolyticum. *Angew Chem Int Ed Engl* 49(11), 2011-2013.

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Partida-Martinez LP, de Looss CF, Ishida K, Ishida M, Roth M, Buder K, Hertweck C (2007) Rhizonin, the first mycotoxin isolated from the zygomycota, is not a fungal metabolite but is produced by bacterial endosymbionts. *Appl Environ Microbiol* 73(3), 793-797.

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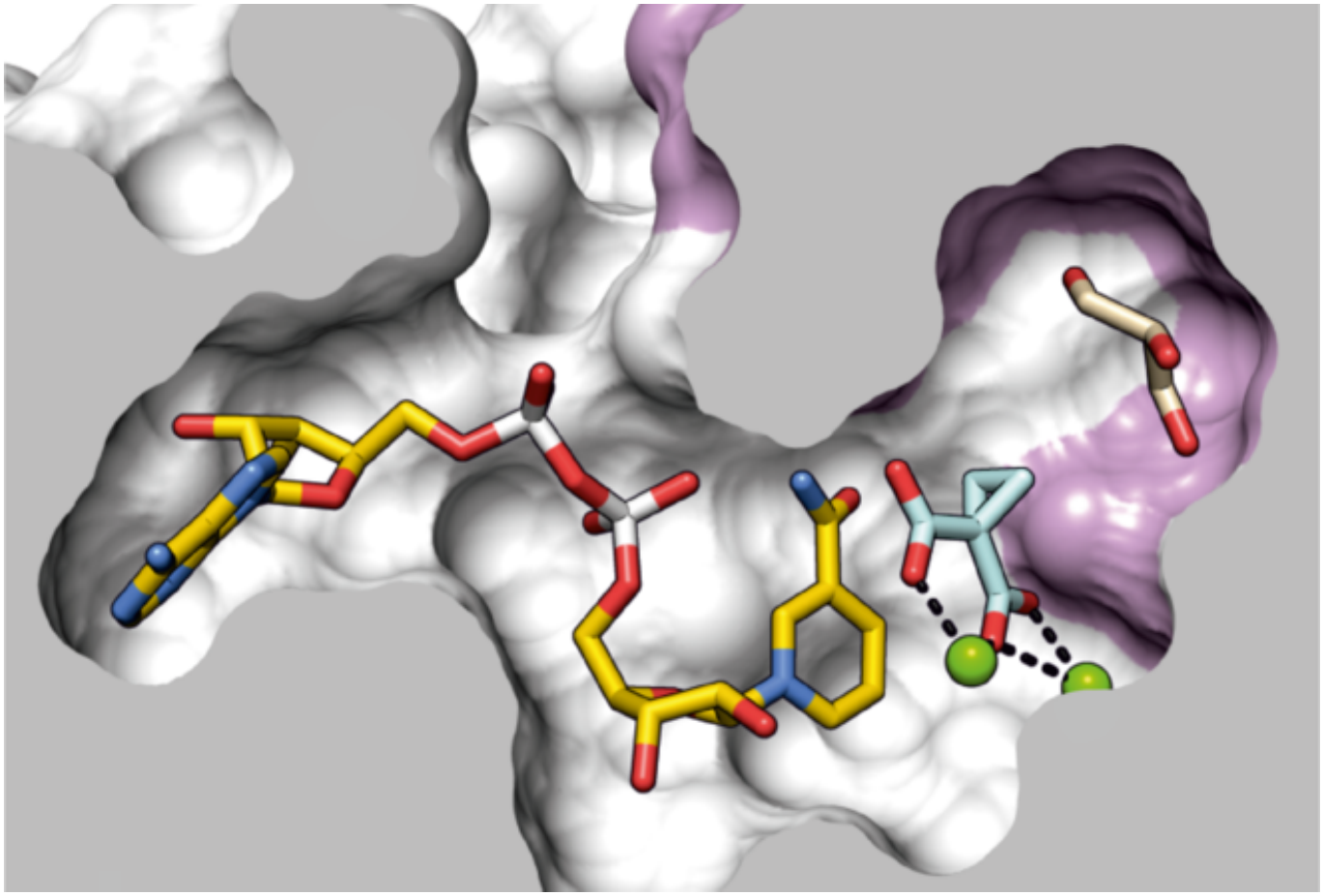
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