

Jakob Franke

Alumni

Publications

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.

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Trottmann F, Franke J, Ishida K, Garcia-Altares M, Hertweck C (2019) A pair of bacterial siderophores releases and traps an intercellular signal molecule: An unusual case of natural nitrone bioconjugation. *Angew Chem Int Ed* 58(1), 200-204.

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Franke J, Hertweck C (2016) Biomimetic Thioesters as Probes for Enzymatic Assembly Lines: Synthesis, Applications, and Challenges. *Cell Chem Biol* 23(10), 1179-1192. (Review)

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Baunach M, Franke J, Hertweck C (2015) Terpenoid biosynthesis off the beaten track: unconventional cyclases and their impact on biomimetic synthesis. *Angew. Chem. Int. Ed.* 54(9), 2604-2626.

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Ding L, Franke J, Hertweck C (2015) Divergolide congeners illuminate alternative reaction channels for ansamycin diversification. *Org. Biomol. Chem.* 13(6), 1618-1623.

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Franke J, Ishida K, Hertweck C (2015) Plasticity of the Malleobactin Pathway and its Impact on Siderophore Action in Human Pathogenic Bacteria. *Chemistry* 21(22), 8010-8014.

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Franke J, Ishida K, Hertweck C (2014) Evolution of siderophore pathways in human pathogenic bacteria. *J Am Chem Soc* 136(15), 5599-5602.

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Pidot S, Ishida K, Cyrulies M, Hertweck C (2014) Discovery of clostrubin, an exceptional polyphenolic polyketide antibiotic from a strictly anaerobic bacterium. *Angew Chem Int Ed Engl* 53(30), 7856-7859.

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Xu Z, Baunach M, Ding L, Peng H, Franke J, Hertweck C (2014) Biosynthetic code for divergolide assembly in a bacterial mangrove endophyte. *Chembiochem* 15(9), 1274-1279.

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Franke J, Ishida K, Ishida-Ito M, Hertweck C (2013) Nitro versus hydroxamate in siderophores of pathogenic bacteria: effect of missing hydroxylamine protection in malleobactin biosynthesis. *Angew Chem Int Ed Engl* 52(32), 8271-8275.

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