

Publications

Haensch VG, Hertweck C (2024) Photosensitizers enable the formation of biphenyls with UV-LEDs and sunlight. *Chemistry* 30(27), e202400605.

Roman D, Meisinger P, Guillonneau R, Peng CC, Peltner LK, Jordan PM, Haensch V, Götze S, Werz O, Hertweck C, Chen Y, Beemelmans C (2024) Structure revision of a widespread marine sulfonolipid class based on isolation and total synthesis. *Angew Chem Int Ed* 63(23), e202401195.

Götze S, Vij R, Burow K, Thome N, Urbat L, Schlosser N, Pflanze S, Müller R, Hänsch VG, Schlabach K, Fazlikhani L, Walther G, Dahse HM, Regestein L, Brunke S, Hube B, Hertweck C, Franken P, Stallforth P (2023) Ecological niche-inspired genome mining leads to the discovery of crop-protecting nonribosomal lipopeptides featuring a transient amino acid building block. *J Am Chem Soc* 145(4), 2342-2353.

Klapper M*, Hübner A*, Ibrahim A*, Wasmuth I, Borry M, Haensch VG, Zhang S, Al-Jammal WK, Suma H, Fellows Yates JA, Frangenberg J, Velsko IM, Chowdhury S, Herbst R, Bratovanov EV, Dahse HM, Horch T, Hertweck C, González Morales MR, Straus LG, Vilotijevic I, Warinner C, Stallforth P (2023) Natural products from reconstructed bacterial genomes of the Middle and Upper paleolithic. *Science* 380(6645), 619-624.

Schäfer E, Seibold PS, Bartram S, Trottmann F, Hänsch V, Gressler M, Chadeayne A, Hertweck C, O'Connor S, Hoffmeister D (2023) A "Magic Mushroom" multi-product sesquiterpene synthase. *ChemBioChem* 24(21), e202300511.

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Haensch V, Neuwirth T, Bergner A, Bruhnke J, Kloss F, Hertweck C (2022) Sustainable and highly controlled aryl couplings revealed by systematic assessment of photoactivatable linkers. *Chem Sci* 13(19), 5680-5686.

Haensch VG, Görls H, Hertweck C (2022) A photochemical macrocyclization route to asymmetric strained [3.2] paracyclophanes. *Chemistry* 28(69), e202202577.

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.

Klemm P, Solomun JI, Rodewald M, Kuchenbrod MT, Hänsch VG, Richter F, Popp J, Hertweck C, Hoeppener S, Bonduelle C, Lecommandoux S, Traeger A, Schubert S (2022) Efficient gene delivery of tailored amphiphilic polypeptides by polyplex surfing. *Biomacromolecules* 23(11), 4718-4733.

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.

Haensch VG, Neuwirth T, Steinmetzer J, Kloss F, Beckert R, Gräfe S, Kupfer S, Hertweck C (2019) Metal-free aryl cross-coupling directed by traceless linkers. *Chem Eur J* 25(70), 16068-16073.

Kloss F, Neuwirth T, Haensch VG, Hertweck C (2018) Metal-free synthesis of pharmaceutically important biaryls by photosplicing. *Angew Chem Int Ed* 57(44), 14476-14481.

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