

Publications

Ishida K, Krabbe J, Meisinger PR, Shabuer G, Schieferdecker S, Cyrulies M, Tank C, Barnes E, Paetz C, Hertweck C (2025) Discovery and biosynthesis of celluxanthenes, antibacterial arylpolyene alkaloids from diverse cellulose-degrading anaerobic bacteria. *Angew Chem Int Ed* 64(24), e202503697.

Ishida K, Shabuer G, Schieferdecker S, Pidot SJ, Stinear TP, Knuepfer U, Cyrulies M, Hertweck C (2020) Oak-associated negativicute equipped with ancestral aromatic polyketide synthase produces antimycobacterial dendrubins. *Chem Eur J* 26(58), 13147-13151.

Schieferdecker S, Shabuer G, Knuepfer U, Hertweck C (2019) Clostrindolin is an antimycobacterial pyrone alkaloid from *Clostridium beijerinckii*. *Org Biomol Chem* 17(25), 6119-6121.

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.

Shabuer G, Ishida K, Pidot SJ, Roth M, Dahse HM, Hertweck C (2015) Plant pathogenic anaerobic bacteria use aromatic polyketides to access aerobic territory. *Science* 350(6261), 670-674.

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