



Daniel Lechnitz

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Projects

Former Projects

Exploitation and total synthesis of new microbial sphingolipid-type signaling molecules

[Details](#)

Publications

Lechnitz D, Peng CC, Raguz L, Rutaganira F, Jautzus T, Regestein L, King N, Beemelmans C (2021) Structural and functional analysis of bacterial sulfonosphingolipids and rosette-inducing factor 2 (RIF-2) by mass spectrometry-guided isolation and total synthesis. *Chemistry* , [Details](#) [PubMed](#)

Braga D, Last D, Hasan M, Guo H, Lechnitz D, Uzum Z, Richter I, Schalk F, Beemelmans C, Hertweck C, Lackner G (2019) Metabolic Pathway Rerouting in *Paraburkholderia rhizoxinica* Evolved Long-Overlooked Derivatives of Coenzyme F420. *ACS Chem Biol* 14(9), 2088-2094. [Details](#) [PubMed](#)

Lechnitz D, Pflanze S, Beemelmans C (2019) Stereoselective synthesis of unnatural (2S,3S)-6-hydroxy-4-sphingenine-containing sphingolipids. *Org Biomol Chem* 17(29), 6964-6969. [Details](#) [PubMed](#)

Guo H, Benndorf R, König S, Lechnitz D, Weigel C, Peschel G, Berthel P, Kaiser M, Steinbeck C, Werz O, Poulsen M, Beemelmans C (2018) Expanding the Rubterolone Family - Intrinsic Reactivity and Directed Diversification of PKS-derived Pyrans. *Chemistry* 24, 11319-11324. [Details PubMed](#)

Guo H, Benndorf R, Lechnitz D, Klassen JL, Vollmers J, Görls H, Steinacker M, Weigel C, Dahse HM, Kaster AK, de Beer ZW, Poulsen M, Beemelmans C (2017) Isolation, Biosynthesis and Chemical Modifications of Rubterolones A-F: Rare Tropolone Alkaloids from *Actinomadura* sp. 5-2. *Chemistry*, [Details PubMed](#)

Lechnitz D, Raguž L, Beemelmans C (2017) Total synthesis and functional analysis of microbial signalling molecules. *Chem Soc Rev* 46(20), 6330-6344. [Details PubMed](#)