# Publications

Bissell AU, Rautschek J, Hoefgen S, Raguž L, Mattern DJ, Saeed N, Janevska S, Jojić K, Huang Y, Kufs JE, Herboeck B, Guo H, Hillmann F, Beemelmanns C, Valiante V (2022) Biosynthesis of the sphingolipid inhibitors sphingofungins in filamentous fungi requires aminomalonate as a metabolic precursor. *ACS Chem Biol* 17(2), 386-394.

Hoefgen S, Bissell AU, Huang Y, Gherlone F, Raguž L, Beemelmanns C, Valiante V (2022) Desaturation of the sphingofungin polyketide tail results in increased serine palmitoyltransferase inhibition. *Microbiol Spectr* 10(5), e0133122.

Raguž L, Peng CC, Rutaganira FUN, Krüger T, Stanišić A, Jautzus T, Kries H, Kniemeyer O, Brakhage AA, King N, Beemelmanns C (2022) Total synthesis and functional evaluation of IORs, sulfonolipid-based inhibitors of cell differentiation in *Salpingoeca rosetta*. *Angew Chem Int Ed* 61(41), e202209105.

Leichnitz D, Peng CC, Raguž L, Rutaganira FUN, Jautzus T, Regestein L, King N, Beemelmanns 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* 28(8), e202103883.

Raguž L, Peng CC, Kaiser M, Görls H, Beemelmanns C[*] (2021) A modular approach to the antifungal Sphingofungin family: Concise total synthesis of Sphingofungin A and C. *Angew Chem Int Ed* 61(5), e202112616.

Roman D, Raguž L, Keiff F, Meyer F, Barthels F, Schirmeister T, Kloss F, Beemelmanns C (2020) Modular solid-phase synthesis of antiprotozoal barnesin derivatives. *Org Lett* 22(10), 3744-3748.

Raguz L, Beemelmanns C (2019) Ursprung und Funktionen der Sphingolipide. *Nachrichten aus der Chemie* 67(2), 66-70. (Review)

Guo H, Schmidt A, Stephan P, Raguž L, Braga D, Kaiser M, Dahse HM, Weigel C, Lackner G, Beemelmanns C (2018) Precursor-directed diversification of cyclic tetrapeptidic pseudoxylallemycins. *ChemBioChem* 19(21), 2307-2311.

Rischer M, Raguz L, Guo H, Keiff F, Diekert G, Goris T, Beemelmanns C (2018) Biosynthesis, synthesis and activities of barnesin A, a NRPS-PKS hybrid produced by an anaerobic Epsilonproteobacterium. *ACS Chem Biol* 13(8), 1990-1995.

Leichnitz D, Raguž L, Beemelmanns C (2017) Total synthesis and functional analysis of microbial signalling molecules. *Chem Soc Rev* 46(20), 6330-6344. (Review)

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