



Luka Raguz

[_Chemical Biology of Microbe-Host Interactions · PhD student_](#) +49 3641 532-1523
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Curriculum vitae

Main Research Areas

- Synthesis and Derivatisation of Natural Products
- Synthetic Method Development
- Medicinal Chemistry
- Target Identification

Professional Career

2016-	PhD Student Hans-Knöll-Institute
2013-2016	Scientific Assistant in the Research Group of Prof. Riedl (ZHAW)
2011-2013	Master Studies Life Sciences (ZHAW)
2008-20011	Bachelor Studies Chemistry - Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)
2005-2008	Apprenticeship: Chemical Laboratory Assistant

Topics

[Natural product synthesis](#)

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, Beemelmans C, Valiante V (2022) Biosynthesis of the sphingolipid inhibitors sphingofungins in filamentous fungi requires aminomalonnate as a metabolic precursor. *ACS Chem Biol* 17(2), 386-394.

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

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Raguž L, Peng CC, Rutaganira FUN, Krüger T, Stanišić A, Jautzus T, Kries H, Kniemeyer O, Brakhage AA, King N, Beemelmans 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.

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Brand M, Wang L, Agnello S, Gazzola S, Gall FM, Raguž L, Kaiser M, Schmidt RS, Ritschl A, Jelk J, Hemphill A, Mäser P, Bütikofer P, Adams M, Riedl R (2021) Antiprotozoal structure-activity relationships of synthetic leucinostatin derivatives and elucidation of their mode of action. *Angew Chem Int Ed* 60(28), 15613-15621.

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Leichnitz D, Peng CC, Raguž L, Rutaganira FUN, 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* 28(8), e202103883.

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Raguž L, Peng CC, Kaiser M, Görls H, Beemelmans 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.

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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.

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

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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 pseudoxyllallemycins. *ChemBioChem* 19(21), 2307-2311.

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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.

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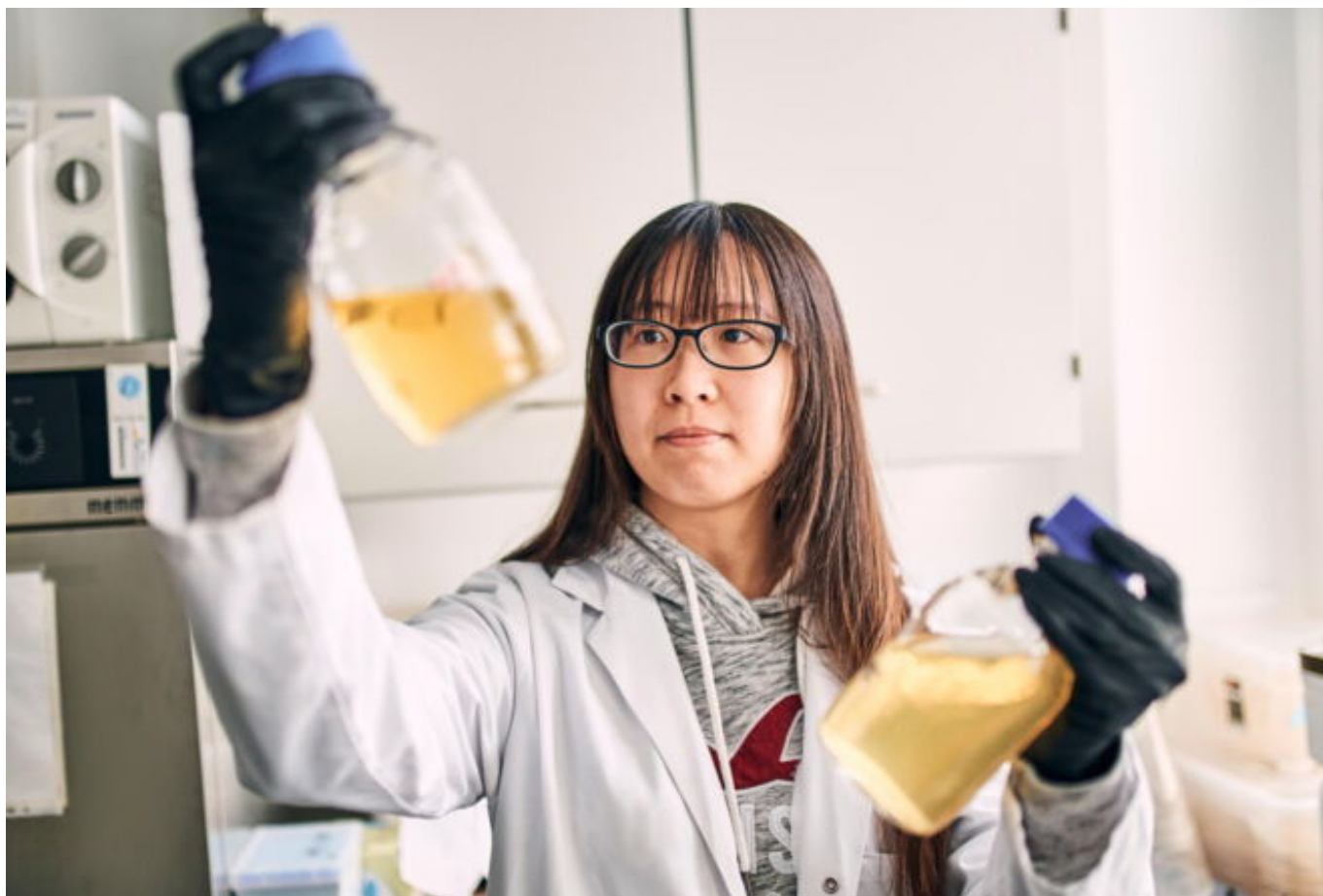
Page 1 of 2

- 1
- [2](#)
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