



Felix Schalk

Functional and genomic analysis of bacterial and fungal natural products derived from the fungus-growing termite

Publications

Lee SR, Schalk F, Schwitalla JW, Guo H, Yu JS, Song M, Jung WH, de Beer ZW, Beemelmans C, Kim KH (2022) GNPS-Guided Discovery of Madurastatin Siderophores from the Termite-Associated *Actinomadura* sp. RB99. *Chemistry* 28(36), e202200612. [Details PubMed](#)

Schalk F, Fricke J, Um S, Conlon BH, Maus H, Jäger N, Heinzl T, Schirmeister T, Poulsen M, Beemelmans C (2021) GNPS-guided discovery of xylacremolide C and D, evaluation of their putative biosynthetic origin and bioactivity studies of xylacremolide A and B. *RSC Adv* 11(31), 18748-18756. [Details PubMed](#)

Schalk F, Gostinčar C, Kreuzenbeck NB, Conlon BH, Sommerwerk E, Rabe P, Burkhardt I, Krüger T, Kniemeyer O, Brakhage AA, Gunde-Cimerman N, de Beer ZW, Dickschat JS, Poulsen M, Beemelmans C (2021) The Termite Fungal Cultivar *Termitomyces* Combines Diverse Enzymes and Oxidative Reactions for Plant Biomass Conversion. *mBio* 12(3), e0355120. [Details PubMed](#)

Um S, Seibel E, Schalk F, Balluff S, Beemelmans C (2021) Targeted Isolation of Saalfelduracin B-D from *Amycolatopsis saalfeldensis* Using LC-MS/MS-Based Molecular Networking. *J Nat Prod* 84(4),

1002-1011. [Details PubMed](#)

Rak Lee S, Schalk F, Schwitalla JW, Benndorf R, Vollmers J, Kaster AK, de Beer ZW, Park M, Ahn MJ, Jung WH, Beemelmans C, Kim KH (2020) Polyhalogenation of Isoflavonoids by the Termite-Associated *Actinomadura* sp. RB99. *J Nat Prod* , [Details PubMed](#)

Schalk F, Um S, Guo H, Kreuzenbeck NB, Görls H, de Beer ZW, Beemelmans C (2020) Targeted Discovery of Tetrapeptides and Cyclic Polyketide-Peptide Hybrids from a Fungal Antagonist of Farming Termites. *Chembiochem* , [Details PubMed](#)

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Start of PhD

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Doctoral Disputation

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