

# Publications

Bodawatta KH, Hu H, Schalk F, Daniel JM, Maiah G, Koane B, Iova B, Beemelmans C, Poulsen M, Jønsson KA (2023) Multiple mutations in the Nav1.4 sodium channel of New Guinean toxic birds provide autoresistance to deadly batrachotoxin. *Mol Ecol* 33(9), e16878.

Fricke J, Schalk F, Kreuzenbeck NB, Seibel E, Hoffmann J, Dittmann G, Conlon BH, Guo H, Wilhelm de Beer Z, Vassão DG, Gleixner G, Poulsen M, Beemelmans C (2023) Adaptations of *Pseudoxylaria* towards a comb-associated lifestyle in fungus-farming termite colonies. *ISME J* 17(5), 733-747.

Lee SR, Schalk F, Schwitalla JW, Guo H, Yu JS, Song M, Jung WH, de Beer ZW, Beemelmans C, Kim KH (2022) GNPS<sup>\*\*</sup>-guided discovery of madurastatins A1, A2, E1, F, and G1, siderophores from the termite-associated *Actinomadura* sp. RB99. (GNPS=global natural product social molecular networking platform.) *Chemistry* 28(36), e202200612.

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.

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.

Um S, Seibel E, Schalk F, Balluf 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.

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* 83(10), 3102-3110.

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* 21(20), 2991-2996.

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.

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