

Publications

Seibold PS, Dörner S, Fricke J, Schäfer T, Beemelmans C, Hoffmeister D (2024) Genetic regulation of L-tryptophan metabolism in *Psilocybe mexicana* supports psilocybin biosynthesis. *Fungal Biol Biotechnol* 11(1), 4.

Bartholomäus ATH, Roman D, Al-Jammal WK, Vilotijević I, Christine Beemelmans C (2023) Synthesis of aryl- and alkyl-containing 3-methylene-5-hydroxy esters via a barbier allylation reaction. *Eur J Org Chem* 26(18), e202300177.

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.

Kreuzenbeck NB, Dhiman S, Roman D, Burkhardt I, Conlon BH, Fricke J, Guo H, Blume J, Görls H, Poulsen M, Dickschat JS, Köllner TG, Arndt HD, Beemelmans C (2023) Isolation, (bio)synthetic studies and evaluation of antimicrobial properties of drimenol-type sesquiterpenes of *Termitomyces* fungi. *Commun Chem* 6(1), 79.

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Grosse M, Günther K, Jordan PM, Roman D, Werz O, Beemelmans C (2022) Synthesis of functionalized δ -hydroxy- β -keto esters and evaluation of their anti-inflammatory properties. *ChemBioChem* 23(9), e202200073.

Guo H, Daniel JM, Seibel E, Burkhardt I, Conlon BH, Görls H, Vassão DG, Dickschat JS, Poulsen M, Beemelmans C (2022) Insights into the metabolomic capacity of podaxis and isolation of podaxisterols A-D, ergosterol derivatives carrying nitrosyl cyanide-derived modifications. *J Nat Prod* 85(9), 2159-2167.

Guo H, Rischer M, Beemelmans C (2022) Signalling molecules inducing metamorphosis in marine organisms. *Nat Prod Rep* 39(9), 1833-1855. (Review)

Hoefgen S, Bissell AU, Huang Y, Gherlone F, Raguž L, Beemelmans C, Valiante V (2022)

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