# Janis Fricke

Alumni

## Publications

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, Beemelmanns C (2023) Adaptations of *Pseudoxylaria* towards a comb-associated lifestyle in fungus-farming termite colonies. *ISME J* 17(5), 733-747.

Details




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, Beemelmanns C (2023) Isolation, (bio)synthetic studies and evaluation of antimicrobial properties of drimenol-type sesquiterpenes of *Termitomyces* fungi. *Commun Chem* 6(1), 79.

Details



Dörner S, Rogge K, Fricke J, Schäfer T, Wurlitzer JM, Gressler M, Pham DNK, Manke DR, Chadeayne AR, Hoffmeister D (2022) Genetic survey of *Psilocybe* natural products. *ChemBioChem* 23(14), e202200249.

Details



Kreuzenbeck NB, Seibel E, Schwitalla JW, Fricke J, Conlon BH, Schmidt S, Hammerbacher A, Köllner TG, Poulsen M, Hoffmeister D, Beemelmanns C (2022) Comparative genomic and metabolomic analysis of *Termitomyces* species provides insights into the terpenome of the fungal cultivar and the characteristic odor of the fungus garden of *Macrotermes natalensis* termites. *mSystems* 7(1), e0121421.

Details



Conlon BH, Gostinčar C, Fricke J, Kreuzenbeck NB, Daniel JM, Schlosser MSL, Peereboom N,

Aanen DK, de Beer ZW, Beemelmanns C, Gunde-Cimerman N, Poulsen M (2021) Genome reduction and relaxed selection is associated with the transition to symbiosis in the basidiomycete genus *Podaxis*. *iScience* 24(6), 102680.

Details

Fricke J, Sherwood AM, Halberstadt AL, Kargbo RB, Hoffmeister D (2021) Chemoenzymatic synthesis of 5-methylpsilocybin: A tryptamine with potential psychedelic activity. *J Nat Prod* 84(4), 1403-1408.

Details

Schalk F, Fricke J, Um S, Conlon BH, Maus H, Jäger N, Heinzel T, Schirmeister T, Poulsen M, Beemelmanns 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

Blei F, Dörner S, Fricke J, Baldeweg F, Trottmann F, Komor AJ, Meyer F, Hertweck C, Hoffmeister D (2020) Simultaneous production of psilocybin and a cocktail of β-carboline monoamine oxidase inhibitors in ‘magic’ mushrooms. *Chem Eur J* 26(3), 729-734.

Details




Demmler R, Fricke J, Dörner S, Gressler M, Hoffmeister D (2020) S-adenosyl-L-methionin salvage impacts psilocybin formation in 'magic' mushrooms. *ChemBioChem* 21(9), 1364-1371.

Details




Fricke J, Kargbo R, Regestein L, Lenz C, Peschel G, Rosenbaum MA, Sherwood A, Hoffmeister D (2020) Scalable hybrid synthetic/biocatalytic route to psilocybin. *Chem Eur J* 37(26), 8281-8285.

Details



PAPER




- **1**
- 2
- Load more


Publication list as PDF