

Janis Fricke

Alumni

Publikationen

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.

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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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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.

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Kreuzenbeck NB, Seibel E, Schwitalla JW, Fricke J, Conlon BH, Schmidt S, Hammerbacher A, Köllner TG, Poulsen M, Hoffmeister D, Beemelmans 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.

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

Aanen DK, de Beer ZW, Beemelmans 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.

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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.

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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.

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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.

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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.

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