

Publications

Dörner S, Trottmann F, Jordan P, Bartels B, Rogge K, Werz O, Hertweck C, Hoffmeister D (2024) The fatal mushroom neurotoxin muscarine is released from a harmless phosphorylated precursor upon cellular injury. *Angew Chem Int Ed* 63(52), e202417220.

Hudspeth J, Rogge K, Dörner S, Müll M, Hoffmeister D, Rupp B, Werten S (2024) Methyl transfer in psilocybin biosynthesis. *Nat Commun* 15(1), 2709.

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.

Rassbach J, Hilsberg N, Haensch VG, Dörner S, Gressler J, Sonnabend R, Semm C, Voigt K, Hertweck C, Gressler M (2023) Non-canonical two-step biosynthesis of anti-oomycete indole alkaloids in Kickxellales. *Fungal Biol Biotechnol* 1010(1), 19.

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.

Lenz C, Dörner S, Trottmann F, Hertweck C, Sherwood A, Hoffmeister D (2022) Assessment of bioactivity-modulating pseudo-ring formation in psilocin and related tryptamines. *ChemBioChem* 23(13), e202200183.

Lenz C, Dörner S, Sherwood A, Hoffmeister D (2021) Structure elucidation and spectroscopic analysis of chromophores produced by oxidative psilocin dimerization. *Chemistry* 27(47), 12166-12171.

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.

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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