

Publications

Kries H, Trottmann F, Hertweck C (2023) Novel biocatalysts from specialized metabolism. *Angew Chem Int Ed Engl* [Epub ahead of print] (Review)

Müll M, Pourmasoumi F, Wehrhan L, Nosovska O, Stephan P, Zeihe H, Vilotijevic I, Keller BG, Kries H (2023) Biosynthetic incorporation of fluorinated amino acids into the nonribosomal peptide gramicidin S. *RSC Chem Biol* 4(9), 692-697.

Stephan P, Langley C, Winkler D, Basquin J, Caputi L, O'Connor SE, Kries H (2023) Directed evolution of piperazic acid incorporation by a nonribosomal peptide synthetase. *Angew Chem Int Ed Engl* 62(35), e202304843.

Zhang K, Kries H (2023) Biomimetic engineering of nonribosomal peptide synthesis. *Biochem Soc Trans* 51(4), 1521-1532. (Review)

Pourmasoumi F,* De S,* Peng H, Trottmann F, Hertweck C, Kries H (2022) Proof-reading thioesterase boosts activity of engineered nonribosomal peptide synthetase. *ACS Chem Biol* 17(9), 2382-2388.

Raguž L, Peng CC, Rutaganira FUN, Krüger T, Stanišić A, Jautzus T, Kries H, Kniemeyer O, Brakhage AA, King N, Beemelmans C (2022) Total synthesis and functional evaluation of IORs, sulfonolipid-based inhibitors of cell differentiation in *Salpingoeca rosetta*. *Angew Chem Int Ed* 61(41), e202209105.

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Wurlitzer J, Stanišić A, Wasmuth I, Jungmann S, Fischer D, Kries H, Gressler M (2020) Bacterial-like nonribosomal peptide synthetases produce cyclopeptides in the zygomycetous fungus *Mortierella alpina*. *Appl Env Microbiol* 87(3), e02051-20.

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Götze S, Arp J, Lackner G, Zhang S, Kries H, Klapper M, García-Altare M, Willing K, Günther M, Stallforth P (2019) Structure elucidation of the syringafactin lipopeptides provides insight in the evolution of nonribosomal peptide synthetases. *Chem Sci* 10(48), 10979-10990.

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