

Publications

Little RF, Trottmann F, Hashizume H, Preissler M, Unger S, Sawa R, Kries H, Pidot S, Igarashi M, Hertweck C (2024) Analysis of the valgamicin biosynthetic pathway reveals a general mechanism for cyclopropanol formation across diverse natural product scaffolds. *ACS Chem Biol* 19(3), 660-668.

Peng H, Schmiederer J, Chen X, Panagiotou G, Kries H[#] (2024) Controlling substrate- and stereospecificity of condensation domains in nonribosomal peptide synthetases. *ACS Chem Bio* 19(3), 599-606.

Kries H, Trottmann F, Hertweck C (2023) Novel biocatalysts from specialized metabolism. *Angew Chem Int Ed Engl* 63(4), e202309284. (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.

Pourmasoumi F, * Hengoju S, * Beck K, Stephan P, Klopfleisch L, Hoernke M, Rosenbaum MA, Kries H (2023) Analysing megasynthetase mutants at high throughput using droplet microfluidics. *Chembiochem* 24(24), e202300680.

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Wurlitzer JM, Stanišić A, Ziethe S, Jordan PM, Günther K, Werz O, Kries H, Gressler M (2022) Macrophage-targeting oligopeptides from *Mortierella alpina*. *Chem Sci* 13(31), 9091-9101.

Stanišić A, Hüskens A, Stephan P, Niquille DL, Reinstein J, Kries H (2021) Engineered nonribosomal peptide synthetase shows opposite amino acid loading and condensation specificity. *ACS Catal* 11(14), 8692-8700.

Huang HM, Stephan P, Kries H (2020) Engineering DNA-templated nonribosomal peptide synthesis. *Cell Chem Biol* S2451-9456(20), 30433-5.

Trottmann F, Ishida K, Franke J, Stanišić A, Ishida-Ito M, Kries H, Pohnert G, Hertweck C (2020) Sulfonium acids loaded onto an unusual thiotemplate assembly line construct the cyclopropanol warhead of a *Burkholderia* virulence factor. *Angew Chem Int Ed* 59(32), 13511-13515.

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Stanišić A, Kries H (2019) Adenylation domains in nonribosomal peptide engineering. *ChemBioChem* 20(11), 1347-1356. (Review)

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