

Vollständige Publikationsliste – Strukturbiologie biosynthetischer Enzyme, Dr. Jesko Köhnke

1. Franz L, Adam S, Santos-Aberturas J, Truman AW, **Köhnke J** (2017): Macroamidine formation in bottromycins is catalyzed by a divergent YcaO enzyme. **J Am Chem Soc.** doi: 10.1021/jacs.7b09898
2. Fu C, Sikandar A, Donner J, Zaburanyi N, Herrmann J, Reck M, Wagner-Döbler I⁺, **Köhnke J⁺**, Müller R⁺ (2017): The natural product carolacton inhibits folate-dependent C1 metabolism by targeting FolD/MTHFD. **Nat Comm** doi:10.1038/s41467-017-01671-5
3. Kjaerulff L, Sikandar A, Zaburanyi N, Adam S, Herrmann J, **Köhnke J**, Müller R (2017) Thioholgamides: Thioamide-Containing Cytotoxic RiPP Natural Products. **ACS Chem Biol** doi:10.1044/2017_AJA-16-0101
4. Beshr G, Sikandar A, Jemiller EM, Klymiuk N, Hauck D, Wagner S, Wolf E, **Köhnke J⁺**, Titz A⁺ (2017) Photorhabdus luminescens lectin A (PliA)-a new probe for detecting α -galactoside-terminating glycoconjugates. **J Biol Chem** doi:10.1074/jbc.M117.812792
5. Viehrig K, Surup F, Volz C, Herrmann J, Abou Fayad A, Adam S, **Köhnke J**, Trauner D, Müller R (2017): Structure and Biosynthesis of Crocagins: Polycyclic Postranslationally Modified Ribosomal Peptides from Chondromyces crocatus. **Angew Chem Int Ed Engl.** 56(26), pp. 7407-10.
6. Mann G, Huo L, Adam S, Nardone B, Vendome J, Westwood NJ, Müller R, **Köhnke J** (2016): Structure and substrate recognition of the Bottromycin maturation enzyme BotP. **ChemBiochem**, 17(23), pp. 2286-92.
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8. **Köhnke J**, Mann G, Bent AF, Ludewig H, Shirran S, Botting C, Lebl T, Houssen WE, Jaspars M, Naismith JH (2015): Structural analysis of leader-peptide binding enables leader-free cyanobactin processing. **Nat Chem Biol.**, 11(8), pp. 558-63.
9. **Köhnke J**, Bent AF, Houssen W, Mann G, Jaspars M, Naismith JH (2014): The structural biology of patellamide biosynthesis. **Curr Opin Struct Biol** 29, pp. 112-21.
10. Mann G, **Köhnke J**, Bent AF, Graham R, Houssen W, Jaspars M, Schwarz-Linek U, Naismith JH (2014): The structure of the cyanobactin domain of unknown function from PatG in the patellamide gene cluster. **Acta Cryst. F** 70(12), pp. 1597-603.
11. Houssen WE, Bent AF, McEwan AR, Pieiller N, Tabudravu J, **Köhnke J**, Mann G, Adaba RI, Lebl T, Hawas UW, Liu H, Schwarz-Linek U, Smith MC, Naismith JH, Jaspars M (2014): An efficient method for the in vitro production of azol(in)e-based cyclic peptides. **Angew Chem Int Ed Engl.** 53(51), pp. 14171-4.
12. **Köhnke J**, Bent AF, Zollman D, Smith K, Houssen WE, Zhu X, Mann G, Lebl T, Scharff R, Shirran S, Botting CH, Jaspars M, Schwarz-Linek U, Naismith JH (2013): The Cyanobactin Heterocyclase Enzyme: A Processive Adenylase That Operates with a Defined Order of Reaction. **Angew Chem Int Ed Engl.** 52(52), pp. 13991-6.
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15. **Köhnke J**, Bent A, Houssen WE, Zollman D, Morawitz F, Shirran S, Vendome J, Nneoyiegbe AF, Trembleau L, Botting CH, Smith MC, Jaspars M, Naismith JH (2012): The mechanism of

- patellamide macrocyclization revealed by the characterisation of the PatG macrocyclase domain. **Nat Struct Mol Biol.** 19(8), pp. 767-72.
16. Houssen WE*, **Köhnke J***, Zollman D, Vendome J, Raab A, Smith MC, Naismith JH, Jaspars M (2012): The Discovery of New Cyanobactins from Cyanotheca PCC 7425 Defines a New Signature for Processing of Patellamides. **Chembiochem.** 13(18), pp. 2683-9.
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 21. Jakobs A*, **Köhnke J***, Himstedt F, Funk M, Korn B, Gaestel M, Niedenthal R (2007): Ubc9 fusion-directed SUMOylation (UFDS): A method to analyze function of protein SUMOylation. **Nature Methods.** 4(3), pp. 245-250.
 22. Hellenbroich Y, Schulz-Schaeffer W, Nitschke MF, **Köhnke J**, Händler G, Bürk K, Schwinger E, Zühlke C (2004): Coincidence of a large SCA12 repeat allele with a case of Creutzfeld-Jacob disease. **J Neurol Neurosurg Psychiatry** 75(6), pp 937-8.
 23. Hellenbroich Y, Schulz-Schaeffer W, Nitschke MF, **Köhnke J**, Händler G, Bürk K, Schwinger E, Zühlke C (2001): Pre-treatment with corticosteroids and a single cycle of high-dose albendazole for subarachnoidal cystercosis. **Neurology** 56, pp 299-303.

Books

1. Cyclic peptides: From Bioorganic Synthesis to Applications
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