


# CURRICULUM VITAE

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Biosynthesis, regulation and resistance mechanism of natural products from microorganisms			
Professional Memberships			
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Education & Working Experience			
Education:			
2005.01-2001.11 Doctor of Science (Microbiology), Hans-Knoell-Institute for Natural Products Research, The University of Jena (Friedrich-Schiller-Universität Jena), Jena, Germany			
1999.09-2001.06 Master of Science (Molecular Biology and Biochemistry), College of Life Science and Technology, Huazhong Agricultural University, Wuhan, China			

1995.09-1999.06 Bachelor of Science (Biotechnology), College of Life Science and Technology,

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#### Professional Experiences:

2008.09-present Professor, College of Life Science and Technology, Huazhong Agricultural University, Wuhan, China

2008.08-2007.09 Postdoctor, Department of Chemistry, The University of Chicago, Chicago, USA

2007.03-2005.04 Postdoctor, Kekulé Institute of Organic Chemistry and Biochemistry, The University of Bonn (Rheinische Friedrich-Wilhelms-Universität Bonn), Bonn, Germany

#### Publications

1. Xiaorong Chen, Yuedi Sun, Shan Wang, Kun Ying, Le Xiao, Kai Liu, Xiuli Zuo, Jing He\*. Identification of a novel structure-specific endonuclease AziN that contributes to the repair of azinomycin B-mediated DNA interstrand crosslinks. *Nucleic Acids Res.* 2020, 48(2):709-718.
2. Qin Liu, Qin Lin, Xinying Li, Muhammad Ali, Jing He\*. Construction and application of a "superplasmid" for enhanced production of antibiotics. *Appl Microbiol Biotechnol.* 2020, 104(4):1647-1660.
3. Mengyi Zhu, Lijuan Wang, Jing He\*. Chemical diversification based on substrate promiscuity of a standalone adenylation domain in a reconstituted NRPS system. *ACS Chem Biol.* 2019, 14(2):256-265.
4. Mengyi Zhu<sup>#</sup>, Lijuan Wang<sup>#</sup>, Qingbo Zhang, Muhammad Ali, Siqu Zhu, Peiqing Yu, Xiaofei Gu, Haibo Zhang, Yiguang Zhu, Jing He\*. Tandem hydration of diisonitriles triggered by isonitrile hydratase in *Streptomyces thioluteus*. *Org Lett.* 2018,

20(12):3562-3565.

5. Lijuan Wang<sup>#</sup>, Mengyi Zhu<sup>#</sup>, Qingbo Zhang, Xu Zhang, Panlei Yang, Zihui Liu, Yun Deng, Yiguang Zhu, Xueshi Huang, Li Han, Shengqing Li, Jing He\*. Diisonitrile natural product SF2768 functions as a chalkophore that mediates copper acquisition in *Streptomyces thioluteus*. *ACS Chem Biol.* 2017, 12(12):3067-3075.
6. Shan Wang, Kai Liu, Le Xiao, LiYuan Yang, Hong Li, FeiXue Zhang, Lei Lei, ShengQing Li, Xu Feng, AiYing Li, Jing He\*. Characterization of a novel DNA glycosylase from *S. sahachiroi* involved in the reduction and repair of azinomycin B induced DNA damage. *Nucleic Acids Res.* 2016, 44(1):187-197.
7. Ying Zhai, Silei Bai, Jingjing Liu, Liyuan Yang, Li Han, Xueshi Huang, Jing He\*. Identification of an unusual type II thioesterase in the dithiolopyrrolone antibiotics biosynthetic pathway. *Biochem Biophys Res Commun.* 2016, 473(1):329-335.
8. Shan Wang, Ruifang Zhao, Kai Liu, Mengyi Zhu, Aiyang Li, Jing He\*. Essential role of an unknown gene *aziU3* in the production of antitumor antibiotic azinomycin B verified by utilizing optimized genetic manipulation systems for *Streptomyces sahachiroi*. *FEMS Microbiol Lett.* 2012, 337(2):147-154.
9. Sheng Huang, Yudong Zhao, Zhiwei Qin, Xiaoling Wang, Mayca Onega, Li Chen, Jing He\*, Yi Yu\*, Hai Deng\*. Identification and heterologous expression of the biosynthetic gene cluster for holomycin produced by *Streptomyces clavuligerus*. *Process Biochemistry.* 2011, 46(3):811-816.
10. Jing He and Christian Hertweck. Functional analysis of the aureothin iterative type I polyketide synthase. *ChembioChem.* 2005, 6(5):908-912.
11. Jing He, Markus Müller, Christian Hertweck\*. Formation of the aureothin tetrahydrofuran ring by a bifunctional cytochrome P450 monooxygenase. *J. Am. Chem. Soc.* 2004, 126(51):16742-16743.
12. Jing He, Christian Hertweck\*. Biosynthetic origin of the rare nitro aryl moiety of the polyketide antibiotic aureothin: discovery of an unprecedented N-oxygenase. *J. Am. Chem.*

Soc. 2004, 126(12):3694-3695.

13. Jing He and Christian Hertweck\*. Iteration as programmed event during polyketide assembly; molecular analysis of the aureothin biosynthesis gene cluster. *Chem. Biol.* 2003, 10(12):1225-1232.