

所属学院 生物工程学院

学科领域 分子与细胞生物学

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个人简介

副教授，生化和分子生物学，微生物学，生物工程专业硕士导师。主要研究工作包括代谢工程和细胞工厂优化，酶的结构和功能，功能微生物的发现和应，治疗用细胞的培养过程生物学等。已发表 SCI 收录研究论文 30 篇以上。希望招收有强烈研究兴趣，有良好分子生物学知识和实验技术基础，有良好沟通能力的硕士生候选人。

海外访学经历：

2010.8-2011.8：美国杜克大学访问学者

2017.1-12：瑞典查尔姆斯理工大学访问学者

研究方向

目前主要是微生物代谢工程，合成生物学和治疗用细胞培养过程生物学。

研究成果及主要发表文章

1. SafiyhTaghavi, Xiao Wu, Liming Ouyang, Yian Biao Zhang, Andrea Stadler, Sean McCorkle, Wei Zhu, Sergei Maslov, Daniel van der Lelie*. Transcriptional responses to sucrose mimic the plant-associated life style of the plant growth promoting endophyte *Enterobacter* sp. 638. *PLoS ONE*.2015, 10(1): e0115455
2. Donglin Zhu, Liming Ouyang*, Zhaohui Xu, Lili Zhang. Rhizobacteria of *Populuseuphratica* promoting plant growth against heavy metals.*International Journal of Phytoremediation*. 2015. 17 (10), 973-980
3. Yufei Sui, Liming Ouyang*, Hongzhong Lu, Yingping Zhuang*, Siliang Zhang. Progress in Omics Research of *Aspergillus niger*. *Chinese Journal of Biotechnology*.2016, 32(8): 20-35
4. Hongzhong Lu, Weiqiang Cao, Liming Ouyang, Jianye Xia, Mingzhi Huang, Ju Chu, Yingping Zhuang, Siliang Zhang and HenkNoorman. Comprehensive reconstruction and in silico analysis of *Aspergillus niger* genome-scale metabolic network model that accounts for 1210 ORFs. *Biotechnology and Bioengineering*. 2017. 114(3):685-695.
5. Chong c Chen; Ming Hong; Ju Chu, Ming z Huang; Li m Ou yang; Xi w Tian; Ying p Zhuang. Blocking the flow of propionate into TCA cycle through a *mutB* knockout leads to a significant increase of erythromycin production by an industrial strain of *Saccharopolysporaerythraea*. *Bioprocess and Biosystems Engineering*. 2017. 40: 201.
6. Liming Ouyang*,Haiyan Pei, Zhaohui Xu. Low nitrogen stress stimulating the indole-3-acetic acid biosynthesis of *Serratia* sp. ZM is vital for the survival of the bacterium and its plant growth-promoting characteristic. *Archives of Microbiology*. 2017, 199(3): 425-432
7. Yu-fei Sui, Li-ming Ouyang*, Ju Chu, Wei-qiang Cao, Ying-ping Zhuang*, Shu Cheng, HenkNoorman, Si-liang Zhang,Geng-yun Zhang. Global transcriptional response of *Aspergillus niger* in the process of glucoamylase fermentation.*Bioresources and Bioprocessing*. 2017.4:44(doi: 10.1186/s40643-017-0160-x)
8. Hongzhong Lu*, Weiqiang Cao*, Xiaoyun Liu, Yufei Sui, Liming Ouyang**, Jianye Xia, Mingzhi Huang, Yingping Zhuang, Siliang Zhang, HenkNoorman, Ju Chu**. Multi-omics integrative analysis with GEMs simulation reveals global cellular adaptations of *Aspergillus niger* under industrial enzyme production conditions. *Scientific Reports*. 2018;8(1):14404.
9. LimingOuyang; Petter Holland; HongzhongLu; David Bergenholm; Jens Nielsen*. Integrated analysis of the yeast NADPH-regulator *Stb5* reveals distinct differences in NADPH requirements and regulation in different states of yeast metabolism. *FEMS Yeast Research*. 2018, 18 (8); DOI:10.1093/femsyr/foy091
10. Yuan Zhang; Liming Ouyang*; Yilin Nan; Ju Chu. Efficient gene deletion and replacement in *Aspergillus niger* by modified in vivo CRISPR/Cas9 systems. *Bioresources and Bioprocessing*. (2019) 6:4. DOI: 10.1186/s40643-019-0239-7