

个人照片



一. 姓名

赵明，安徽芜湖人，工学博士，讲师。本科毕业于安徽大学，并联合培养于中科院微生物研究所，博士毕业于华东理工大学，毕业后留校开展博士后研究工作，现任安徽工程大学生物与食品工程学院教师。本人长期致力于合成生物学、微生物代谢工程、基因组工程等领域研究。自主开发出独特的微生物元器件挖掘改造、全局调控及全基因定向进化新技术。近年来，主持承担国家重点研发计划子课题等多项科研任务，在 ACS *Synthetic Biology*、*Microbial Cell Factories* 等本领域重点期刊发表 SCI 论文 15 篇，申请发明专利 3 项，获得“挑战杯”、“互联网+”等创新创业大赛国家级银奖、省部级金奖等，多项赛事成果实现转化。

二. 教育背景

2013.09-2019.01 华东理工大学，生物工程学院，博士

2008.09-2012.06 安徽大学，生命科学学院，学士

2011.03-2012.10 中国科学院微生物研究所，联合培养，学士

三. 教学方面

四. 科研方面

承担项目：

1. 国家重点研发计划子课题，2021YFC2100303，143.7 万元，主持
2. 中国博士后科学基金第 67 批面上项目，2020M671021，8 万元，主持
3. 中央高校基本科研业务费研究基金，50321061915027，8 万元，主持
4. 华东理工大学基本科研业务费专项基金，JKF012015005，15 万元，主持

代表性论文（*通讯作者）：

1. **Ming Zhao**, Mingrui Wang, Shuiling Wang, Liangbin Xiong, Bei Gao, Min Liu, Xinyi Tao*, Feng-Qing Wang*, Dongzhi Wei. A self-sustained system spanning the primary and secondary metabolism growth stages to boost the productivity of *Streptomyces*. *ACS Synthetic Biology*. 2022, 11: 353–365. (IF=5.110, JCR 一区)

2. Liang-Bin Xiong, Hao-Hao Liu, Lu Song, Miao-Miao Dong, Jie Ke, Yong-Jun Liu, Ke Liu, **Ming Zhao***, Feng-Qing Wang*, Dong-Zhi Wei. Improving the biotransformation efficiency of soybean phytosterols in *Mycolicibacterium neoaurum* by the combined deletion of *fbpC3* and *embC* in cell envelope synthesis. **Synthetic and Systems Biotechnology**. 2022, 7: 453–459. (IF=4.781, JCR 一区)
3. **Ming Zhao**, Miaomiao Gao, Liangbin Xiong, Yongjun Liu, Xinyi Tao, Bei Gao, Min Liu, Feng-Qing Wang*, Dongzhi Wei*. CRISPR-Cas assisted shotgun mutagenesis method for evolutionary genome engineering. **ACS Synthetic Biology**. 2022, doi: 10.1021/acssynbio.2c00112. (IF=5.110, JCR 一区)
4. Yun-Qiu Zhao, Yong-Jun Liu, Wei-Ting Ji, Kun Liu, Bei Gao, Xin-Yi Tao, **Ming Zhao***, Feng-Qing Wang*, Dong-Zhi Wei. One-pot biosynthesis of 7 β -hydroxyandrosta-4-ene-3,17-dione from phytosterols by cofactor regeneration system in engineered *Mycolicibacterium neoaurum*. **Microbial Cell Factories**. 2022, 21: 59. (IF=5.328, JCR 一区)
5. **Ming Zhao**, Shui-Ling Wang, Xin-Yi Tao*, Guo-Ling Zhao, Yu-Hong Ren, Feng-Qing Wang*, Dong-Zhi Wei. Engineering diverse eubacteria promoters for robust gene expression in *Streptomyces lividans*. **Journal of Biotechnology**. 2019, 289: 93–102. (IF=3.307, JCR 二区)
6. **Zhao M**, Tao XY*, Wang FQ*, Ren YH, Wei DZ. Establishment of a low-dosage-IPTG inducible expression system construction method in *Escherichia coli*. **Journal of Basic Microbiology**. 2018, 7: 1–5. (IF=2.281, JCR 四区)
7. Kun Liu, Yunsen Zhang, Ke Liu, Yunqiu Zhao, Bei Gao, Xinyi Tao, **Ming Zhao**, Feng-Qing Wang*, Dongzhi Wei*. De novo design of a transcription factor for a progesterone biosensor. **Biosensors and Bioelectronics**. 2022, 203: 113897. (IF=10.628, JCR 一区)
8. Yong-Jun Liu, Wei-ting Ji, Lu Song, Xin-Yi Tao, **Ming Zhao**, Bei Gao, Hao Meng, Feng-Qing Wang*, Dong-Zhi Wei. Transformation of phytosterols into pregnatetraenedione by a combined microbial and chemical process. **Green Chemistry**. 2022, doi: 10.1039/D1GC04819H. (IF=10.182, JCR 一区)
9. Liang-Bin Xiong, Zhi-Yong Xie, Jie Ke, Li Wang, Bei Gao, Xin-Yi Tao, **Ming Zhao**, Ya-Ling Shen, Dong-Zhi Wei, Feng-Qing Wang*. Engineering *Mycolicibacterium neoaurum* for the production of antioxidant ergothioneine. **Food Bioengineering**. 2022, 1–11.
10. Zhan-Tao Zhu, Meng-Meng Du, Bei Gao, Xin-Yi Tao, **Ming Zhao**, Yu-Hong Ren, Feng-Qing Wang*, Dong-Zhi Wei. Metabolic compartmentalization in yeast mitochondria: Burden and solution for squalene overproduction. **Metabolic Engineering**. 2021, 68: 232–245. (IF=9.783, JCR 一区)
11. Min Liu, Yang-Chen Lin, Jiao-Jiao Guo, Meng-Meng Du, Xinyi Tao, Bei Gao, **Ming Zhao**, Yushu Ma, Feng-Qing Wang*, Dong-Zhi Wei*. High-level production of sesquiterpene patchoulol in *Saccharomyces cerevisiae*. **ACS Synthetic Biology**. 2021, 10: 158–172. (IF=5.110, JCR 一区)

12. Liang-Bin Xiong, Hao-Hao Liu, **Ming Zhao**, Yong-Jun Liu, Lu Song, Zhi-Yong Xie, Yi-Xin Xu, Feng-Qing Wang*, Dong-Zhi Wei. Enhancing the bioconversion of phytosterols to steroidal intermediates by the deficiency of *kasB* in the cell wall synthesis of *Mycobacterium neoaurum*. **Microbial Cell Factories**. 2020, 19: 80. (IF=5.328, JCR 一区)
13. Guo-Song Liu, Tian Li, Wei Zhou, Min Jiang, Xin-Yi Tao, Min Liu, **Ming Zhao**, Yu-Hong Ren, Bei Gao*, Feng-Qing Wang*, Dong-Zhi Wei*. The yeast peroxisome: A dynamic storage depot and subcellular factory for squalene overproduction. **Metabolic Engineering**. 2020, 57: 151–161. (IF=9.783, JCR 一区)
14. Tian Li, Guo-Song Liu, Wei Zhou, Min Jiang, Yu-Hong Ren, Xin-Yi Tao, Min Liu, **Ming Zhao**, Feng-Qing Wang*, Bei Gao*, Dong-Zhi Wei. Metabolic Engineering of *Saccharomyces cerevisiae* to overproduce squalene. **Journal of Agricultural and Food Chemistry**. 2020, 68: 2132–2138. (IF=5.279, JCR 一区)
15. Xinyi Tao, **Ming Zhao**, Ying Zhang, Min Liu, Qinghai Liu, Wei Wang, Feng-Qing Wang*, Dongzhi Wei. Comparison of the expression of phospholipase D from *Streptomyces halstedii* in different hosts and its over-expression in *Streptomyces lividans*. **FEMS Microbiology Letters**. 2019, 366: 1–8. (IF=2.742, JCR 三区)

发明专利:

1. 陶欣艺, 王风清, 魏东芝, 贾宁, 陈能辉, **赵明**。一种酶促响应释放的磷脂酰纳米前药及其制备方法和应用。专利授权号: ZL201610399628.2
2. 王风清, **赵明**, 魏东芝, 高苗苗, 陶欣艺, 熊亮斌。一种基于 CRISPR-Cas 系统的全基因组随机突变方法及其应用。专利公布号: CN112680450A
3. 王风清, 谢智勇, 魏东芝, 克洁, 陶欣艺, **赵明**, 熊亮斌。一种用于生产麦角硫因的基因工程菌株及其构建方法以及应用。专利公布号: CN112980760A

五. 获得荣誉

1. 2020 年中国国际“互联网+”大学生创新创业大赛上海赛区铜奖
2. 2018 年“汇创青春”上海大学生创业大赛三等奖
3. 2016 年中航工业全国大学生创业大赛银奖
4. 2016 年“创青春”上海市大学生创业大赛金奖

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