

导师姓名	李鹏	性别	男	邮箱	Bio_lip@hainnu.edu.cn
专业	微生物生态				
研究方向	1.青枯菌与寄主互作机制； 2. 环境微生物多样性及其维持机制； 3. 微生物在外来入侵植物入侵优势形成过程中的功能机制。				
联系方式		15120998611			
<div>1. 个人情况介绍</div> <p>李鹏，男，汉族，1985 年 4 月生，山东人，中共党员，2014 年博士毕业于华南理工大学，获得理学博士学位，副教授，硕导，博导，海南省拔尖人才，国际遗传工程和生物技术中心（ICGEB）访问学者。至今发表研究论文 40 余篇，其中第一作者或通讯作者 SCI 文章 30 余篇。主持国家自然科学基金 2 项，海南省重点研发项目 1 项，海南省重点研发项目子课题 2 项，海南省自然科学基金 1 项，中国博士后基金 1 项。主要研究兴趣：青枯菌等病原细菌的致病力调控机制和常见病害生物防控；环境微生物多样性及其功能维持机制。主要从事（1）青枯菌中群体感应系统对致病力的调控机制研究；（2）功能性的简化微生物组开发和利用；（3）青枯菌等病原菌与环境微生物的互作研究；（4）特殊生境中环境微生物多样性及互作网络研究。</p> <div>2. 近年来代表性科研成果</div> <div>(1) Mingzhao Han, Ying Han, Xin Liu, Guixiang Li, Peng Li*. Rhizosphere microbiomes altered by environmental stresses and agronomic practices: Implications for plant adaptation and soil biogeochemical processes. 2025, Plant Stress, 18 (2025) 101062.</div> <div>(2) Raja Asad Ali Khan, Muhammad Irfan Siddique, Peng Li*, Musharaf Ahmad*. Mitigating zinc oxide nanotoxicity in tomato plants: Role of Trichoderma modulated rhizosphere microbiomes and soil glomalin content. 2025, Plant</div>					

Stress, 17 (2025) 100919.

- (3) Mingzhao Han, Ying Han, Xin Liu, Xiao Qin, Jingyang Sun, **Peng Li***. Spatial characteristics of soil enzyme activity and bacterial diversity in Chinese egret habitat. 2025, **Microbiology Spectrum**, 10.1128/spectrum.00015-25.
- (4) Jingyang Sun, Yonglin Li, Li Zheng, Daipeng Chen, Xiaofan Zhou, **Peng Li***. The first complete genome of *Robbsia andropogonis* reveals its arsenal of virulence system causing leaf spot disease of areca palm. **Phytopathology Research**, 2024, 6:51.
- (2) **Peng Li**, Cristina Bez, Yong Zhang, Yinyue Deng, Vittorio Venturi*. N- acyl homoserine lactone cell–cell diffusible signalling in the *Ralstonia solanacearum* species complex. **Molecular Plant Pathology**, 2024, 25:e13467.
- (3) Xia Li, Wenfang Yin, Junjie Desmond Lin, Yong Zhang, Quan Guo, Gerun Wang, Xiayu Chen, Binbin Cui, Mingfang Wang, Min Chen, **Peng Li**, Ya-Wen He, Wei Qian, Haibin Luo, Lian-Hui Zhang, Xue-Wei Liu*, Shihao Song*, Yinyue Deng*. Regulation of bacterial physiology and virulence by the second messenger 2',3'-cyclic guanosine monophosphate. **Nature Communications**, 2023,14:7654
- (4) Jinxing Liao, Zihan Li, Dan Xiong, Danyu Shen, Limin Wang, Long Lin, Xiaolong Shao, Lisheng Liao, **Peng Li**, Liqun Zhang, Hai-Hong Wang, Guoliang Qian*. Quorum quenching by a type IVA secretion system effector. **The ISME Journal**, 2023, doi: 10.1038/s41396-023-01457-2
- (5) Qingmei Liu, Chuhao Li, Xiaohan Zhang, Mengfan Ding, Xinyue Liao, Jinli Yan, Ming Hu, Leilei Yang, Xiaoqing Wang, Lisheng Liao, **Peng Li***, Xiaofan Zhou* PhcX is a LqsR-family response regulator that contributes to *Ralstonia solanacearum* virulence and regulates multiple virulence factors, 2023, **mBio**, 14(5): e02028-23.