

个人简历

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学习经历:

博士 2008.9-2011.9 海洋微生物学, 生命科学学院, 厦门大学
硕士 2006.9-2008.8 海洋微生物学, 生命科学学院, 厦门大学
学士 2002.9-2006.7 生物技术, 生命科学与技术学院, 广西大学

工作经历:

2022.1-至今 研究员, 生命科学技术学院, 上海交通大学
2017.1-2021.12 副研究员, 生命科学技术学院, 上海交通大学
2014.1-2016.12 助理研究员, 生命科学技术学院, 上海交通大学
2011.8-2013.12 博士后, 生命科学技术学院, 上海交通大学
2012.7 - 2012.10 访问学者, 莱布尼茨波罗的海研究所 (IOW), 德国

科考经历:

2022.11-2022.12 研究人员, 探索一号, 参与“奋斗者号”克马德克海沟航次
2014.11-2015.2 研究人员, 向阳红9号, 参与“蛟龙号”西南印度洋热液区航次
2013.4 - 2013.5 研究人员, 海洋四号, 参与“南海天然气水合物勘查与试采环境评价”项目

奖励:

2008 第七届全国微生物学暨第三届全国微生物遗传学青年学者学术研讨会论文交流一等奖
2013 Gordon Research Conference – Marine Molecular Ecology, Travel Award
2017 上海交通大学博士后奖励基金二等奖
2017 简浩然环境微生物学优秀论文奖
2018 2018 年度海洋科学技术奖一等奖 (3/15)
2019 上海交通大学优秀班主任
2020 上海交通大学晨星青年学者奖励计划副教授 A 类
2021 上海交通大学优秀班主任

主持课题:

- 1, 国家自然科学基金面上项目
深海丝状病毒基因开关的分子基础及生态效应研究
- 2, 上海交通大学“深蓝计划”基金国家自然科学基金配套项目
深海丝状病毒基因开关的分子基础及生态效应研究
- 3, 海南省科技计划三亚崖州湾科技城自然科学基金联合项目
海洋转座噬菌体的鉴定、挖掘及应用
- 4, 国家重点研发计划项目子课题
羽流颗粒物中微生物（含病毒）的时空演化研究
- 5, 国家自然科学基金重大研究计划培育项目
深渊环境中温和型病毒对微生物宿主碳氮源代谢的影响研究
- 6, 国家重点研发计划项目子课题
病毒在深渊微生态系统物质流和信息流中的作用
- 7, 国家自然科学基金面上项目
深海嗜冷细菌中原噬菌体的诱导机理及其功能研究
- 8, 国家自然科学基金青年项目
低温高压诱导噬菌体 SW1 与深海细菌 *Shewanella piezotolerans* WP3 的相互作用关系研究
- 9, 上海交通大学新进教师启动计划
深海细菌 *Shewanella psychrophila* WP2 原噬菌体的功能研究
- 10, 中国博士后基金面上项目
深海丝状噬菌体 SW1 DNA 复制及其基因表达受 H-NS 调控的研究

学术组织兼职:

- Frontiers in Microbiology*, 客座主编, 2022 年 2 月至今
- Frontiers in Microbiology*, Review Editor, 2021 年 3 月至今
- Frontiers in Marine Science*, Review Editor, 2022 年 5 月至今
- 中国生物工程学会噬菌体技术专业委员会委员, 2023 年 11 月至今
- 上海市微生物学会环境微生物学专业委员会委员, 2023 年 11 月至今
- 上海市微生物学会海洋微生物学专业委员会委员, 2023 年 11 月至今

发表文章列表

通讯作者

1. Yi Yi, Shunzhang Liu, Yali Hao, Qingyang Sun, Xinjuan Lei, Yecheng Wang, Jiahua Wang, Mujie Zhang, Shan Tang, Qingxue Tang, Yue Zhang, Xipeng Liu, Yinzhao Wang, Xiang Xiao, **Huahua Jian***, A systematic analysis of marine lysogens and proviruses, Nature Communications, 14:6013, 2023.
2. Mujie Zhang, Yali Hao, Yi Yi, Shunzhang Liu, Qingyang Sun, Xiaoli Tan, Shan Tang, Xiang Xiao, **Huahua Jian***, Unexplored diversity and ecological functions of transposable phages, The ISME Journal, 17:1015-1028, 2023.
3. 郝亚丽, 许冠鹏, 肖湘, **蹇华晔***, 丝状病毒-被忽视的原核生物病毒“潜伏者”, 中国科学: 生命科学, doi: 10.1360/SSV-2021-0256, 2022.
4. Yali Hao[#], Siyuan Wang[#], Mujie Zhang, Qingxue Tang, Canxing Meng, Liping Wang, Qilian Fan, Yaxian Yan, Xiang Xiao, **Huahua Jian***, Isolation and characterization of a novel linear-plasmid phage from the sediment of the Mariana Trench, Virologica Sinica, 37:311-313, 2022.
5. Lihua Tang[#], Ting Chu[#], Junjun Shang, Ruiheng Yang, Chunyan Song, Dapeng Bao*, Qi Tan*, **Huahua Jian***, Oxidative stress and autophagy are important processes in post ripeness and brown film formation in Mycelium of *Lentinula edodes*, Frontiers in Microbiology, 13:811673, 2022.
6. Xixiang Tang[#], Libo Yu[#], Yi Yi[#], Jiahua Wang, Siyuan Wang, Canxing Meng, Shunzhang Liu, Yali Hao, Yue Zhang, Xiaorong Cao, **Huahua Jian***, Xiang Xiao*, Phylogenomic analysis reveals a two-stage process of the evolutionary transition of *Shewanella* from the upper ocean to the hadal zone, Environmental Microbiology, 23(2):744-756, 2021
7. Canxing Meng[#], Site Li[#], Qilian Fan, Rourke Chen, Yang Hu, Xiang Xiao, **Huahua Jian***, The thermo-regulated genetic switch of deep-sea filamentous phage SW1 and its distribution in the Pacific Ocean, FEMS Microbiology Letters, 367(12): fnaa094, 2020
8. Siyuan Wang[#], Libo Yu[#], Xiaoli Tan, Xiaorong Cao, Xixiang Tang*, **Huahua Jian***, Genomic analysis of *Brevundimonas mediterranea* D151-2-6 isolated from hadal sediment of the Pacific Ocean, Marine Genomics, 54:100878, 2020
9. 聂唱, 侯佳林, 王寅焰, **蹇华晔***, 深海嗜冷细菌 *Shewanella psychrophila* WP2 的基因组学分析, 应用海洋学学报, 39(3): 319-328, 2020
10. Shunzhang Liu, Canxing Meng, Guanpeng Xu, **Huahua Jian***, Fengping Wang, Validation of Reference Genes for reverse transcription real-time quantitative PCR Analysis in the Deep-sea Bacterium *Shewanella psychrophila* WP2, FEMS Microbiology Letters, 365(7): fny048, 2018

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11. **Huahua Jian**[#], Guanpeng Xu[#], Yi Yi[#], Yali Hao, Yinzhao Wang, Lei Xiong, Siyuan Wang,

Shunzhang Liu, Canxing Meng, Jiahua Wang, Yue Zhang, Chao Chen, Xiaoyuan Feng, Haiwei Luo, Hao Zhang, Xingguo Zhang, Lianrong Wang, Zhijun Wang, Zixin Deng, Xiang Xiao*, The origin and impeded dissemination of the DNA phosphorothiation system in prokaryotes, Nature Communications, 12:6382, 2021

12. **Huahua Jian**[#], Yi Yi[#], Jiahua Wang[#], Yali Hao, Mujie Zhang, Siyuan Wang, Canxing Meng, Yue Zhang, Hongmei Jing, Yinzhaoh Wang, Xiang Xiao*, Diversity and distribution of viruses inhabiting the deepest ocean on Earth, The ISME Journal, 15:3094-3110, 2021

13. **蹇华晔**[#], 李升康[#], 肖湘*, 基于基因芯片的原核微生物转录组学分析技术, Microbiome Protocols eBook. *Bio-101*:e2003379, doi:10.21769/BioProtoc.2003379, 2021

14. **蹇华晔**, 肖湘*, 深海病毒的特征及其生态学功能探讨, 科学通报, 64(15):1598-1609, 2019

15. **Huahua Jian**[#], Guanpeng Xu[#], Shunzhang Liu[#], Yali Hao, Canxing Meng, Jianrong Xu, Yue Zhang, Xipeng Liu, Xiang Xiao*, Multiple mechanisms are involved in repression of filamentous phage SW1 transcription by the DNA-binding protein FpsR, Journal of Molecular Biology, 431:1113-1126, 2019

16. **Huahua Jian**, Guanpeng Xu, Fengping Wang, Xiang Xiao*, Characterisation of the regulatory function of the H-NS protein in the benthic bacterium *Shewanella piezotolerans* WP3 under cold conditions, FEMS Microbiology Letters, 364(4):fxn021, 2017

17. **Huahua Jian**[#], Shengkang Li[#], Xixiang Tang, Xiang Xiao*, Time-series transcriptomic analysis of the deep-sea bacterium *Shewanella piezotolerans* WP3 in response to high salinity stress, Marine Genomics, 34:23-26, 2017

18. **Huahua Jian**[#], Shengkang Li[#], Xixiang Tang, Xiang Xiao*, Microarray analysis of the benthic bacterium *Shewanella piezotolerans* WP3 at low temperature, Marine Genomics, 33:13-15, 2017

19. **Huahua Jian**, Han Wang, Xianping Zeng, Lei Xiong, Fengping Wang, Xiang Xiao*, Characterization of the relationship between polar and lateral flagellar structural genes in the deep-sea bacterium *Shewanella piezotolerans* WP3, Scientific Reports, 6: 39758, 2016

20. **Huahua Jian**[#], Shengkang Li[#], Xixiang Tang, Xiang Xiao*, A transcriptome resource for the deep-sea bacterium *Shewanella piezotolerans* WP3 under cold and high hydrostatic pressure shock stress, Marine Genomics, 30: 87–91, 2016

21. **Huahua Jian**[#], Shengkang Li[#], Xiaoyuan Feng, Xiang Xiao*, Global transcriptome analysis of the heat shock response of the deep-sea bacterium *Shewanella piezotolerans* WP3, Marine Genomics, 30: 81–85, 2016

22. **Huahua Jian**, Lei Xiong, Guanpeng Xu, Xiang Xiao, Fengping Wang*, Long 5' untranslated regions regulate the RNA stability of the deep-sea filamentous phage SW1, Scientific Reports, 6(21908), 2016

23. **Huahua Jian**, Lei Xiong, Guanpeng Xu, Xiang Xiao*, Filamentous phage SW1 is active and influences the transcriptome of the host at high-pressure and low-temperature, Environmental Microbiology Reports, 8(3): 358–362, 2016

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25. **Huahua Jian**, Lei Xiong, Ying He, Xiang Xiao*, The regulatory function of LexA is temperature-dependent in the deep-sea bacterium *Shewanella piezotolerans* WP3, Frontiers in Microbiology, 6(627), 2015
26. **Huahua Jian**, Jing Hu, Xiang Xiao*, Transcriptional profiling of CRP-regulated genes in deep-sea bacterium *Shewanella piezotolerans* WP3, Genomics Data, 5: 51-53, 2015
27. **Huahua Jian**, Fengping Wang*, Microarray analysis of *lexA* gene deletion mutant of deep-sea bacterium *Shewanella piezotolerans* WP3 at low-temperature and high-pressure, Genomics Data, 4: 130-132, 2015
28. **Huahua Jian**, Xiang Xiao, Fengping Wang*, Role of filamentous phage SW1 in regulating the lateral flagella of *Shewanella piezotolerans* strain WP3 at low temperatures, Applied and Environmental Microbiology, 79(22):7101-09, 2013
29. **Huahua Jian**, Jun Xu, Xiang Xiao, Fengping Wang*, Dynamic modulation of DNA replication and gene transcription in deep-sea filamentous phage SW1 in response to changes of host growth and temperature, PLoS ONE, 7(8), e41578, 2012

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30. Xin Chen, Weishu Zhao, Liang Dong, **Huahua Jian**, Lewen Liang, Jing Wang, Fengping Wang*, Impact of metabolism and temperature on ²H/¹H fractionation in lipids of marine bacterium *Shewanella piezotolerans* WP3, Biogeosciences, 20:1491-1504, 2023
31. Kuntong Jia, Yongyi Peng, Xueji Chen, **Huahua Jian**, Min Jin, Zhiwei Yi, Ming Su, Xiyang Dong*, Meisheng Yi*, A novel Inovirus reprograms metabolism and motility of marine *Alteromonas*, Microbiology Spectrum, 10(6): e0338822, 2022
32. Zhenghua Liu, Qingyun Yan, Chengying Jiang, Juan Li, **Huahua Jian**, Lu Fan, Rui Zhang, Xiang Xiao, Delong Meng, Xueduan Liu, Jianjun Wang*, Huaqun Yin*, Growth rate determines prokaryote-provirus network modulated by temperature and host genetic traits, Microbiome, 7(1): e01358-21, 2022
33. Keith D Thompson, Chang Nie, **Huahua Jian**, Fengping Wang*, Ying Zhang*, Reconstruction and analysis of thermodynamically constrained models reveals metabolic responses of a deep-sea bacterium to temperature perturbations, mSystems, 7(4): e0058822, 2022
34. Xin Chen, Liang Dong, Weishu Zhao, **Huahua Jian**, Jing Wang, Fengping Wang*, The effect of metabolism and temperature on carbon isotope composition of lipids in marine bacterium *Shewanella piezotolerans* WP3, Chemical Geology, 606: 120963, 2022
35. Hongmei Jing*, Xiang Xiao, Yue Zhang, Zhiyong Li, **Huahua Jian**, Yingfeng Luo, Zhuang

Han, Composition and ecological roles of the core microbiome along the abyssal-hadal transition zone sediments of the Mariana Trench, Microbiology Spectrum, 10(3): e01988-21, 2022

36. Jiulong Zhao, Hongmei Jing*, Zengmeng Wang, Long Wang, **Huahua Jian**, Rui Zhang, Xiang Xiao, Feng Chen, Nianzhi Jiao, Yongyu Zhang*, Novel viral communities potentially assisting in carbon, nitrogen, and sulfur metabolism in the upper slope sediments of Mariana Trench, mSystems, 7(1): e01358-21, 2022

37. Xu Qiu, Xiaorong Cao, **Huahua Jian**, Huangming Wu, Guangxin Xu, Xixiang Tang*, Transcriptomic analysis reveals that changes in gene expression contribute to *Microbacterium sediminis* YLB-01 adaptation at low temperature under high hydrostatic pressure, Current Microbiology, 79:95, 2022

38. Libo Yu, **Huahua Jian**, Yingbao Gai, Zhiwei Yi, Ying Feng, Xu Qiu, Zongze Shao, Xixiang Tang*, Characterization of two novel psychrophilic and piezotolerant strains, *Shewanella psychropiezotolerans* sp. nov. and *Shewanella eurypsychrophilus* sp. nov, adapted to an extreme deep-sea environment, Systematic and Applied Microbiology, 44:126266, 2021

39. Zhiwei Yi, Xiaorong Cao, Hong Li, **Huahua Jian**, Xiashutong Xu, Libo Yu, Xixiang Tang*, Genomic analysis of *Microbacterium sediminis* YLB-01 reveals backgrounds related to its deep-sea environment adaptation, Marine Genomics, 56:100818, 2021

40. Weishu Zhao, Xiaopan Ma, Xiaoxia Liu, **Huahua Jian**, Yu Zhang, Xiang Xiao*, Cross-stress adaptation in a piezophilic and hyperthermophilic archaeon from deep sea hydrothermal vent, Frontiers in Microbiology, 11: 2081, 2020

41. Zhe Xie, **Huahua Jian**, Zheng Jin, Xiang Xiao*, Enhancing the Adaptability of the Deep-Sea Bacterium *Shewanella piezotolerans* WP3 to High Pressure and Low temperature by experimental evolution under H₂O₂ stress, Applied and Environmental Microbiology, 84(5): e02342-17, 2018

42. Xuegong Li, Weijia Zhang, Xiang Xiao, **Huahua Jian**, Ting Jiang, Hongzhi Tang, Xiaoqing Qi, Longfei Wu*, Pressure-Regulated Gene Expression and Enzymatic Activity of the Two Periplasmic Nitrate Reductases in the Deep-Sea Bacterium *Shewanella piezotolerans* WP3, Frontiers in Microbiology, 9: 3173, 2018

43. Lei Xiong, **Huahua Jian**, Xiang Xiao*, Deep-sea bacterium *Shewanella piezotolerans* WP3 has two dimethyl sulfoxide reductases in distinct subcellular locations, Applied and Environmental Microbiology, 83(18): e01262-17, 2017

44. Muhammad Z. Nawaz, **Huahua Jian**, Ying He, Lei Xiong, Xiang Xiao, Fengping Wang*, Genome-Wide Detection of Small Regulatory RNAs in Deep-Sea Bacterium *Shewanella piezotolerans* WP3, Frontiers in Microbiology, 8: 1093, 2017

45. Keith D Thompson, **Huahua Jian**, Ruixue Cheng, Jiefu Li, Fengping Wang, Ying Zhang*, A Genome-Scale Model of *Shewanella piezotolerans* Simulates Mechanisms of Metabolic Diversity and Energy Conservation, mSystems, 2(2): e00165-16, 2017

46. Guanpeng Xu, **Huahua Jian**, Xiang Xiao, Fengping Wang*, Complete genome sequence of *Shewanella psychrophila* WP2, a deep-sea bacterium isolated from west Pacific sediment, Marine Genomics, 35: 19-21, 2017
47. Jian Ding, Yu Zhang, Han Wang, **Huahua Jian**, Hao Leng, Xiang Xiao*, Microbial Community Structure of Deep-sea Hydrothermal Vents on the Ultraslow Spreading Southwest Indian Ridge, Frontiers in Microbiology, 8: 1012, 2017
48. 程瑞雪, **蹇华晔**, 许冠鹏, 王风平*, 深海来源低温诱导表达载体pSW4的构建及其应用研究, 微生物学通报, 44(4): 983-990, 2017
49. Lihua Tang, Qi Tan, Dapeng Bao, Xuehong Zhang, **Huahua Jian**, Yan Li, Ying Wang*, Comparative proteomic analysis of light-induced mycelial brown film formation by *Lentinula edodes*, BioMed Research International, 5837293, 2016
50. Lei Xiong, **Huahua Jian**, Yuxia Zhang, Xiang Xiao*, The Two Sets of DMSO Respiratory systems of *Shewanella piezotolerans* WP3 are involved in deep sea environmental adaptation, Frontiers in Microbiology, 7: 1418, 2016
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53. Lihua Tang, **Huahua Jian**, Chunyan Song, Dapeng Bao, Xiaodong Shang, Daqiang Wu, Qi Tan*, Xuehong Zhang*, Transcriptome Analysis of Candidate Genes and Signaling Pathways Associated with Light-induced Brown Film Formation in *Lentinula edodes*, Applied Microbiology and Biotechnology, 97(11):4977-89, 2013
54. Fengping Wang, Jianbin Wang, **Huahua Jian**, Bin Zhang, Shengkang Li, Feng Wang, Xiaowei Zhang, Lei Gao, Douglas Hoyt Bartlett, Jun Yu, Songnian Hu*, Xiang Xiao*, Environmental Adaptation: Genomic analysis of the piezotolerant and psychrotolerant deep-sea iron reducing bacterium *Shewanella piezotolerans* WP3, PLoS ONE 3(4): e1937, 2008

专利:

1. 王风平, 肖湘, 杨欣伟, **蹇华晔**, 以噬菌体为基础的穿梭质粒 pSW2 及其制备方法和应用, 申请号/公开号/专利号: CN201310257439.8/ CN103333908A/ZL 2013 1 0257439.8, 授权公告日: 2015.10.14
2. 王风平, 程瑞雪, 许冠鹏, **蹇华晔**, 低温诱导高效异源表达载体 pSW4 及其制备方法和应用, 申请号/公开号/专利号: CN201510288205.9/ CN104878038A/ZL 2015 1 0288205.9, 授权公告日: 2018.5.29
3. 王风平, 熊磊, **蹇华晔**, 高接合转移率的希瓦氏菌 WP3 菌株及其构建方法和应用, 申请号/公开号/专利号: CN201510388165.5/ CN105002129A/ZL 2015 1 0388165.5, 授权公告日: 2019.01.11

专著/译著:

1. 肖湘, 蹇华晔, 《前沿生命的启迪》(第6章 深海微生物), 科学出版社, ISBN 978-7-03-049733-8, 2016年9月出版
2. 肖湘, 蹇华晔, 张宇, 徐俊, 刘喜朋, 王风平, 《生命的引擎-微生物如何创造宜居的地球》(<Life's Engines: How Microbes Made Earth Habitable>译著), 上海科技教育出版社, 2017年12月出版

学术会议:

- 1, 2008.11.24, The 1st International workshop on Deep Sea Microbiology, Oral Presentation (Environment adaptation: research on the flagellar systems and filamentous phage SW1 of deep-sea bacterium *Shewanella piezotolerans* WP3), Xiamen, China.
- 2, 2008.10.19-22, 第七届全国微生物学暨第三届全国微生物遗传学青年学者学术研讨会, 口头报告(深海细菌 *Shewanella piezotolerans* WP3 极端环境适应性机理的研究-双鞭毛系统与丝状噬菌体 SW1 在环境适应中的作用和调控), 山东济南
- 3, 2010.9.18-21, 第四届全国微生物遗传学学术研讨会, 口头报告(The novel regulatory mechanism of a low-temperature inducible filamentous phage SW1 from deep-sea bacterium *Shewanella piezotolerans* WP3), 浙江杭州
- 4, 2012.8.19-24, The 14th International Symposium on Microbial Ecology, Poster Presentation (Understanding the interaction between a deep-sea filamentous phage SW1 with its host *Shewanella piezotolerans* WP3), Copenhagen, Denmark
- 5, 2012.7.2-4, 第二届深海研究与地球系统科学学术研讨会, 墙报(深海低温丝状噬菌体SW1 调控机制及其与宿主相互作用关系的研究), 上海
- 6, 2013.8.11-16, Marine Molecular Ecology Gordon Research Conference, Oral and poster Presentation (Understanding the interaction between a deep-sea filamentous phage SW1 and its host *Shewanella piezotolerans* WP3), Hongkong, China
- 7, 2014.8.24-29, The 15th International Symposium on Microbial Ecology, Poster Presentation (Characterization of the relationship between a deep-sea filamentous phage SW1 and its host *Shewanella piezotolerans* WP3), Seoul, South Korea
- 8, 2016.8.5-8, 第七届全国微生物遗传学学术研讨会, 口头报告(深海噬菌体SW1的诱导调控机制及其与宿主*Shewanella piezotolerans* WP3的相互作用关系), 内蒙古呼和浩特
- 9, 2017.4.24-27, Centennial Celebration of Bacteriophage Research, Poster Presentation (Characterization of the regulatory mechanism of a deep-sea filamentous phage SW1 and the interaction with its bacterial host *Shewanella piezotolerans* WP3), Paris, France
10. 2017.8.28-30, 鳌山论坛-“深海生态系统: 极端环境与生命过程”, 口头报告(深海病毒独特的诱导调控机制: 以丝状噬菌体SW1为例), 山东青岛
11. 2017.11.10-13, 第二十次全国环境微生物学学术研讨会, 分会报告(深海细菌*Shewanella piezotolerans* WP3的双鞭毛系统研究), 浙江杭州

12. 2018.1.13-14, 中国科学院深海科学与工程研究所第二届学术年会, 邀请报告 (深海细菌 *Shewanella piezotolerans* WP3 极端环境适应性机理研究), 海南三亚
13. 2018.6.8-10, 第七届全国地质微生物学学术研讨会, 专题1 (地质微生物学研究新理论, 新技术与新方法) 共同召集人, 上海
14. 2018.10.18-21, 第三届噬菌体国际学术研讨会, 墙报 (The genetic switch of a filamentous phage SW1 and its interaction with the deep-sea bacterium *Shewanella piezotolerans* WP3), 辽宁大连
15. 2018.10.30-11.2, 深部生命国际研究中心成立大会暨国际深碳观测联合会深部生命专题会议, 会议组织者之一, 上海
16. 2019.7.9, CBD 与 UNCLOS 视角下的公海生物多样性保护研讨会, 口头报告 (深海微生物多样性及其成因), 上海
17. 2021.7.11, 第四届超级细菌感染与噬菌体防治高峰论坛, 邀请报告 (深海未培养噬菌体的研究), 上海
18. 2023.6.11, 第 11 届地质微生物学学术研讨会, 分会报告 (海洋病毒组学与可培养病毒-宿主系统相结合的研究策略), 天津
19. 2023.7.5, 第七届地球系统科学大会, 分会报告 (病毒在深海碳氮循环中作用的初步探究), 上海
20. 2023.8.22, 2023 年微生物生态学前沿技术培训班, 邀请报告 (深海病毒组学研究进展), 南京
21. 2023.10.25, 2023 Conference of the International Center for Deep Life Investigation (IC-DLI) & the 5th Anniversary Celebration of IC-DLI, organizing committee, oral presentation (Exploring the diversity, life strategy and ecological function of deep-sea viruses), 海南三亚
22. 2023.11.5, 噬菌体技术前沿论坛, 邀请报告 (深海噬菌体多样性及其生态功能的探索), 北京