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	研究方向:	微生物分子生态学, 生物信息学

简历介绍:

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2006年上海交通大学获博士学位,

2007-2011年, 挪威生命科学大学博士后

2011-2015年, 挪威生命科学大学researcher

2015年入选中国科学院百人计划A类

研究领域:

研究内容:

课题组主要研究兴趣集中在应用分子生物学和基因组学技术, 研究土壤以及相关体系的微生物组的组成及功能。目前主要研究方向涉及农田生态系统土壤及作物根区氮素周转过程、微生物植物互作提升植物耐逆性的机理、抗生素抗性基因的分布扩散机制, 环境中微生物病毒的分类及功能, 以及植物益生菌的筛选及应用。

代表论著:

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1. Ruibo Sun, Wenyan Li, Wenxu Dong, Yiping Tian, Chunsheng Hu, Binbin Liu* (2018) Tillage Changes Vertical Distribution of Soil Bacterial and Fungal Communities. *Frontiers in Microbiology* 9:699. doi: 10.3389/fmicb.2018.00699
2. Fenghua Wang, Shuaimin Chen, Yuying Wang, Yuming Zhang, Chunsheng Hu and Binbin Liu* (2018) Long-term nitrogen fertilization elevates the activity and abundance of nitrifying and denitrifying microbial communities in an upland soil: implications for nitrogen loss from intensive agricultural systems. *Frontiers in Microbiology* 9:2424. doi: 10.3389/fmicb.2018.02424
3. Shuaimin Chen, Fenghua Wang, Yuming Zhang, Shuping Qin, Shoucai Wei, Shiqin Wang, Chunsheng Hu, Binbin Liu* (2018) Organic carbon availability limiting microbial denitrification in the deep vadose zone. *Environmental Microbiology*. DOI: 10.1111/1462-2920.14027
4. Binbin Liu*, Xiaojun Zhang, Lars Reier Bakken, Lars Snipen and Asa Frostegard (2019) Rapid succession of actively transcribing denitrifier populations in agricultural soil during an anoxic spell *Frontiers in Microbiology* 9:3208
5. Ruibo Sun, Wenyan Li, Chunsheng Hu, Binbin Liu (2019) Long-term urea fertilization alters the composition and increases the abundance of soil ureolytic bacterial communities in an upland soil. *FEMS Microbiology Ecology*: 95:4,fiz44
6. Waghmode TR, Shuaimin Chen, Jiazhen Li, Ruibo Sun, Binbin Liu* and Chunsheng Hu* (2018) Response of Nitrifier and Denitrifier Abundance and Microbial Community Structure to Experimental Warming in an Agricultural Ecosystem. *Frontiers in Microbiology* 9:474. doi: 10.3389/fmicb.2018.00474
7. Shuping Qin, Linpeng Yu, Zujie Yang, Mengya Li, Tim Clough, Nicole Wragge-Mnig, Chunsheng Hu, Binbin Liu, Shuaimin Chen, and Shungui Zhou (2019) Electrodes donate electrons for nitrate reduction in a soil matrix via DNRA and denitrification. *Environmental science & technology*. 53 (4), 2002–2012
8. Binbin Liu*, Asa Frostegard, Lars Bakken. Impaired reduction of N₂O to N₂ in acid soils is due to a posttranscriptional interference with the expression of nosZ. (2014) *mBio* 5(3):e01383-14. doi:10.1128/mBio.01383-14.
9. Binbin Liu*, Mao Y, Bergaust L, Bakken LR, Frostegard A. Strains in the genus *Thauera* exhibit remarkably different denitrification regulatory phenotypes. (2013) *Environmental Microbiology*. 15(10): 2816-28. doi: 10.1111/1462-2920.12142.

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10.Lars Bakken, Linda Bergquist, Binbin Liu, Asa Frostegard. Regulation of denitrification at the cellular level: a clue to the understanding of N₂O emissions from soils. (2012) Philos Trans R Soc Lond B Biol Sci. 2012, 367(1593):1226-34. doi: 10.1098/rstb.2011.0321.

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11.Binbin Liu*, Paul Moerkved, Asa Frostegard, Lars Bakken. Denitrification gene pools, transcription and kinetics of NO, N₂O and N₂ production as affected by soil pH. (2010) FEMS Microbiology Ecology. 72(3):407-17. doi: 10.1111/j.1574-6941.2010.00856.x.

12.Binbin Liu, Feng Zhang, Xiaoxi Feng, Yongdi Liu, Xing Yan, Xiaojun Zhang, Linghua Wang, Liping Zhao. Thauera and Azoarcus as functionally important genera in a denitrifying quinoline-removal bioreactor as revealed by microbial community structure comparison. (2006) FEMS Microbiology Ecology. 55(2): 274-286.



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