

Gangming Xu, PhD

E-mail: gx2088@nyu.edu

Mobile: +971 585903958, +86 15064899192



Resume:

2024.03 ~ Research Associate, New York University Abu Dhabi, UAE

2023.04 ~ 2024.03 Post Doctoral Fellow, University of Louisville, USA

2020.07 ~ 2022.12 Free popular science writer during the pandemic

2019.07 ~ 2019.09 Visiting research associate, Texas A&M University, USA

2015.07 ~ 2019.01 Assistant Professor, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China

2015.05 ~ 2015.07 Visiting research scholar, Ankara University, Turkey

2011.08 ~ 2015.05 Assistant professor, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China

Education:

2007.09 ~ 2011.01 PhD, State Key Laboratory of Microbial Resources, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China

2004.09 ~ 2007.07 MSc, State Key Laboratory of Crop Biology, College of Life Sciences, Shandong Agricultural University, Tai'an, China

2000.09 ~ 2004.07 BEng & BSc, College of Food Science and Engineering, Shandong Agricultural University, Tai'an, China

Projects:

1. National Natural Science Foundation of China (NSFC Grant No. 31570038), “Small-molecule elicitation of the chemical diversity of secondary metabolism in marine plant endophytic fungi and their regulatory mechanism.” 2016.01~2019.12
2. National Natural Science Foundation of China (NSFC Grant No. 31200042), “Activation of silent secondary metabolites in marine fungi by epigenetic modification and their biosynthetic regulation.” 2013.01~2015.12
3. National High-Tech Research and Development Program (863 Program Grant No. 2012AA092104-2), “Discovery and optimization of novel secondary metabolites from deep sea microorganisms.” 2012.01~2015.12

Publications: (†share first authors, *corresponding author)

1. **Xu Gangming***, Yang Suiqun. Diverse evolutionary origins of microbial [4+2]-cyclases in natural product biosynthesis. *International Journal of Biological Macromolecules* **2021**, 182: 154-161.
2. **Xu Gangming***. Evolution of LuxR solos in bacterial communication: receptors and signals. *Biotechnology Letters* **2020**, 42 (2): 181-186.
3. **Xu Gangming***, Yang Suiqun. Regulatory and evolutionary roles of pseudo γ -butyrolactone receptors in antibiotic biosynthesis and resistance. *Applied Microbiology and Biotechnology* **2019**, 103 (23): 9373-9378.
4. **Xu Gangming†***, Yang Suiqun†, Meng Linghong, Wang Bin-Gui*. The plant hormone abscisic acid regulates the growth and metabolism of endophytic fungus *Aspergillus nidulans*. *Scientific Reports* **2018**, 8: 6504.
5. **Xu Gang-Ming***. Relationships between the regulatory systems of quorum sensing and multidrug resistance. *Frontiers in Microbiology* **2016**, 7: 958.
6. **Xu Gangming***, Wang Bin-Gui. Independent evolution of six families of halogenating enzymes. *PLoS One* **2016**, 11 (5): e0154619.
7. Xu Rui†, **Xu Gang-Ming†**, Li Xiao-Ming, Li Chun-Shun, Wang Bin-Gui*. Characterization of a newly isolated marine fungus *Aspergillus dimorphicus* for optimized production of the anti-tumor agent wentilactones. *Marine Drugs* **2015**, 13 (11): 7040-7054.
8. Zhao Zheng†, **Xu Gangming†**, Han Zhinan, Li Qingqing, Chen Yilun, Li Dapeng*. Effect of ozone on the antioxidant capacity of "Qiushui" pear (*Pyrus pyrifolia* Nakai cv. Qiushui) during postharvest storage. *Journal of Food Quality* **2013**, 36 (3): 190-197.
9. **Xu Gangming†**, Wang Juan†, Wang Linqi, Tian Xiuyun, Yang Haihua, Fan Keqiang, Yang Keqian*, Tan Huarong*. "Pseudo" γ -butyrolactone receptors respond to antibiotic signals to coordinate antibiotic biosynthesis. *Journal of Biological Chemistry* **2010**, 285 (35): 27440-27448. **(F1000 Recommended)**
10. **Xu Gangming**, Zheng Wei, Li Yingying, Wang Shenghui, Zhang Jingshun, Yan Yanchun*. Biodegradation of chlorpyrifos and 3,5,6-trichloro-2-pyridinol by a newly isolated *Paracoccus* sp. strain TRP. *International Biodeterioration & Biodegradation* **2008**, 62 (1): 51-56.
11. **Xu Gangming**, Li Yingying, Zheng Wei, Peng Xiang, Li Wen, Yan Yanchun*.

Mineralization of chlorpyrifos by co-culture of *Serratia* and *Trichosporon* spp. *Biotechnology Letters* 2007, 29 (10): 1469-1473.

12. Xu Rui, Li Xiaoming, **Xu Gangming***, Wang Bingui*. Optimizing production of asperolide A, a potential anti-tumor tetranorditerpenoid originally produced by the algal-derived endophytic fungus *Aspergillus wentii* EN-48. *Journal of Oceanology and Limnology* 2017, 35: 658.
13. Wang Linqi†, Tian Xiuyun†, Wang Juan, Yang Haihua, Fan Keqiang, **Xu Gangming**, Yang Keqian*, Tan Huarong*. Autoregulation of antibiotic biosynthesis by binding of the end product to an atypical response regulator. *Proc Natl Acad Sci USA* 2009, 106 (21): 8617-8622.

Awards:

1. Graduate Student Scholarship First Class Award 2010 in State Key Laboratory of Microbial Resources, Institute of Microbiology, Chinese Academy of Sciences.
2. Outstanding Graduates 2004 of Shandong Agricultural University.
3. Special Prize in 2003 National English Contest for College Students.