

# Jin Qijiang

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## Areas of Research

Pollution ecotoxicology, Physiology of ornamental plants, Molecular evolution

## Contact Information

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## Research Interests

Research interests include pollution ecotoxicology, adversity physiology of ornamental plants, big data analysis combined with molecular biology to study ornamental plant functional genes. The research results have been published in more than 30 international journals such as Plant Cell Environ and Plant Soil; got 9 authorized invention patents; in recent years, the research work was supported by two National Natural Science Foundation of China, one postdoctoral researcher in China with special funding, Jiangsu Independent Innovation Fund and other projects. Relevant achievements won the second prize of scientific and technological progress (Chinese Society of Landscape Architecture); the second prize of Suzhou scientific and technological progress; selected for the 2019 Jiangsu Province High-level Innovation and Entrepreneurship Talent Introduction Program ", the top young talents of Nanjing in 2019.

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## Education Background

**Bachelor:** Jiangsu Normal University

**Master:** Jiangsu Normal University

**Doctor:** Nanjing Agricultural University

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## Work experience

Lecturer, Nanjing Agricultural University, 2014-2016

Associate Professor, Nanjing Agricultural University, 2016-

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## Selected Publication

- 1) Jin Qijiang, Wang Youxu, Li Xin, Wu Shao, Wang Yanjie, Luo Jiayin, Mattson Neil, Xu Yingchun\*. Interactions between ethylene, gibberellin and abscisic acid in regulating submergence induced petiole elongation in *Nelumbo nucifera*. *Aquatic Botany*, 2017, 137:9-15.
- 2) Jin Qijiang<sup>#</sup>, Xu Yingchun<sup>##</sup>, Mattson Neil, Li Xin, Wang Bei, Zhang Xiao, Jiang Hongwei, Liu Xiaojing, Wang Yanjie, Yao Dongrui. Identification of Submergence-Responsive MicroRNAs and Their Targets Reveals Complex MiRNA-Mediated Regulatory Networks in Lotus (*Nelumbo nucifera* Gaertn). *Frontiers in Plant Science*, 2017, 8:6.
- 3) Xu Yingchun, Wang Yanjie, Mattson Neil, Yang Liu, Jin Qijiang\*. Genome-wide analysis of the *Solanum tuberosum* (potato) trehalose-6-phosphate synthase (TPS) gene family: evolution and differential expression during development and stress. *BMC Genomics*, 2017, 18:926.
- 4) Jin Qijiang, Hu Xin, Li Xin, Wang Bei, Wang Yanjie, Jiang Hongwei, Mattson Neil, Xu Yingchun\*. Genome-Wide Identification and Evolution Analysis of Trehalose-6-Phosphate Synthase Gene Family in *Nelumbo nucifera*. *Frontiers in Plant Science*, 2016, 7:1445.
- 5) Jin Qijiang, Zhu Kaikai, Cui Weiti, Xie Yanjie, Han Bin, Shen Wenbiao\*. Hydrogen gas acts as a novel bioactive molecule in enhancing plant tolerance to paraquat-induced oxidative stress via the modulation of heme oxygenase-1 signalling system. *Plant Cell Environ.* 2013, 36(5): 956-969.

