

Min Wang

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Education:

- Sep. 2004 - Jun. 2008 B.S. in Agricultural resources and environment, College of Resources and Environment, Hunan Agricultural University, China
- Sep. 2007 - Jun. 2009 M.S. in Plant Nutrient, College of Resources and Environmental Science, Nanjing Agricultural University, China
- Sep. 2009 - Jun. 2012 Ph.D. in Plant Nutrient, College of Resources and Environmental Science, Nanjing Agricultural University, China

Work:

- Dec. 2013 - Dec. 2016 Lecture in Plant Nutrition, College of Resources and Environmental Science, Nanjing Agricultural University, China
- Jan. 2017 - Associate Professor of Plant nutrition, College of Resources and Environmental Science, Nanjing Agricultural University, China

Research Area:

- Plant Nutrition and Disease
- Plant-Microbe Interactions

Current Research Projects:

1. Studies on the mechanisms of the soil-borne disease of cucumber Fusarium wilt suppressed by nitrate nutrition, National Nature Science Foundation of China (No. 31401941), 2015-2017
2. Constructing of microbiome of soils with high fertility and high disease suppressiveness, The National Basic Research Program of China (973 Project) (No. 2015CB150505), 2015-2019
3. The mechanism of continuous cropping obstacle restraining nutrient absorption and utilization, and its subtractive technology, National Key R&D Program of China (No. 2016YFD0200305), 2016-2020

Selected publications:

1. **Min Wang**, Zechen Gu, Ruirui Wang, Junjie Guo, Ning Ling, Les G Firbank, Shiwei Guo*. Plant primary metabolism regulated by nitrogen contributes to plant-pathogen interactions. *Plant and Cell Physiology*, 2018, doi.org/10.1093/pcp/pcy211.
2. **Min Wang**, Limin Gao, Suyue Dong, Yuming Sun, Qirong Shen and Shiwei Guo*. Role of silicon on plant-pathogen interactions. *Frontiers in Plant Science*, 2017, 8:701.
3. Jinyan Zhou[#], **Min Wang**[#] (equal contributor), Yuming Sun, Zechen Gu, Ruirui Wang, Asanjan Saydin, Qirong Shen and Shiwei Guo*. Nitrate increased cucumber tolerance to *Fusarium* wilt by regulating gungal toxin production and distribution. *Toxins*, 2017, 9(3): 100.
4. **Min Wang**, Yuming Sun, Zechen Gu, Ruirui Wang, Guomei Sun, Chen Zhu, Shiwei Guo and Qirong Shen*. Nitrate protects cucumber plants against *Fusarium oxysporum* by regulating citrate exudation. *Plant and Cell Physiology*, 2016, 57(9): 2001-2012.
5. **Min Wang**, Lei Ding, Limin Gao, Yingrui Li, Qirong Shen and Shiwei Guo*. The interactions of aquaporins and mineral nutrients in higher plants. *International Journal of Molecular Sciences*, 2016, 17(8): 1229.
6. **Min Wang**, Yuming Sun, Guomei Sun, Xiaokang Liu, Luchong Zhai, Qirong Shen and Shiwei Guo*. Water balance altered in cucumber plants infected with *Fusarium oxysporum* f. sp. *Cucumerinum*. *Scientific Reports*, 2015, 5:7722.
7. **Min Wang**, Ning Ling, Xian Dong, Xiaokang Liu, Qirong Shen and Shiwei Guo*. Effect of fusaric acid on the leaf physiology of cucumber seedlings. *European Journal of Plant Pathology*, 2014, 138: 103-112.
8. **Min Wang**, Qirong Shen, Guohua Xu, Shiwei Guo*. New insight into the strategy for nitrogen metabolism in plant cells. *International Review of Cell and Molecular Biology*, 2014, 310: 1-37.
9. **Min Wang**, Yinfeng Xiong, Ning Ling, Xumeng Feng, Zengtao Zhong, Qirong Shen and Shiwei Guo*. Detection of the dynamic response of cucumber leaves to fusaric acid using thermal imaging. *Plant Physiology and Biochemistry*, 2013, 66: 68-76.
10. **Min Wang**, Qingsong Zheng, Qirong Shen and Shiwei Guo*. The critical role of potassium in plant stress response. *International Journal of Molecular*

Sciences, 2013, 14(4): 7370-7390.

11. **Min Wang**, Ning Ling, Xian Dong, Yiyong Zhu, Qirong Shen and Shiwei Guo*. Thermographic visualization of leaf response in cucumber plants infected with the soil-borne pathogen *Fusarium oxysporum* f. sp. *cucumerinum*. Plant Physiology and Biochemistry, 2012, 61: 153-161.

Awards:

- Studies on physiological mechanisms of soil-borne disease of cucumber fusarium wilt and the relationships with nitrogen nutrition, Outstanding Doctoral Degree Thesis Award in Jiangsu Province, 2015
- Young Elite Scientist Sponsorship Program by the China Association for Science and Technology, 2018