

## **Jun Zhang**

### **Professor of Environmental microbiology**

Address: A612 Science Building

Phone Number: 86-25-84399551

Email: zhangjun1208@njau.edu.cn

#### **Education:**

- Ph.D. Microbiology, Nanjing Agricultural University, Nanjing, 2011
- B.S. Bioengineering, Nanjing Agricultural University, Nanjing, 2006

#### **Research interests and expertise:**

- Mechanisms of heavy metal resistance by microorganisms
- Mechanisms of bioremediation on heavy metal pollution

#### **Current projects:**

- The National Natural Science Foundation of China (Grant No. 41571312, 2016-2019), Studies on the effects of anaerobic arsenite oxidizers on arsenic bioavailability in paddy soil
- Fundamental Research Funds for the Central Universities (Grant No. KYZ201876) , Studies on the mechanism of coupled microbial oxidation of manganese and arsenic in paddy soils
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#### **Selected publications:**

- **Zhang, Jun**, Zhao, Shi-Chen, Xu, Yan, Zhou, Wu-Xian, Huang, Ke, Tang, Zhu, & Zhao, Fang Jie. (2017). Nitrate stimulates anaerobic microbial arsenite oxidation in paddy soils. *Environ Sci Technol*, 51(8), 4377-4386.
- **Zhang, Jun**, Xu, Yan, Cao, Tingting, Chen, Jian, Rosen, Barry. P., & Zhao, Fang-Jie. (2017). Arsenic methylation by a genetically engineered *Rhizobium*-legume symbiont. *Plant Soil*. 416, 259-269.
- **Zhang, Jun**, Zhou, Wu Xian, Liu, Bin Bin, He, Jian, Shen, Qi Rong, & Zhao, Fang Jie. (2015). Anaerobic arsenite oxidation by an autotrophic arsenite-oxidizing bacterium from an arsenic-contaminated paddy soil. *Environ Sci Technol*, 49(10), 5956-5964.
- **Zhang, Jun**, Cao, Ting Ting, Tang, Zhu., Shen, Qi Rong, Rosen, Barry P., & Zhao, Fang Jie. (2015). Arsenic methylation and volatilization by arsenite S-adenosylmethionine methyltransferase in *Pseudomonas alcaligenes* NBRC14159. *Appl Environ Microbiol*, 81(8):2852-2860.
- **Zhang, Jun**, Yin, Jin-Gang, Hang, Bao-Jian, Cai, Shu, He, Jian, Zhou, Shun-Gui, & Li,

Shun-Peng. (2012). Cloning of a novel arylamidase gene from *Paracoccus* sp strain FLN-7 that hydrolyzes amide pesticides. *Appl Environ Microbiol*, 78(14), 4848-4855.

**Prizes, awards, honors:**

- Enrolled in Zhongshan Young Scholars Program, Nanjing Agricultural University, 2015.