

## **Qingsong Zheng**

### **Professor of Plant stress environmental physiology and ecology**

**Address: A 516 Experimental Building**

**Phone Number: +86-25-84395643**

**Email: qszheng@njau.edu.cn**

#### **Education:**

- Ph. D., Nanjing Agricultural University; Botany, 2003
- MSc., Nanjing Agricultural University; Botany, 2000
- B.A., Yangzhou University; agronomy, 1995

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

- Saline soil agriculture
- Recycling agriculture
- Marine macroalgae
- Plant stress environmental physiology and ecology

#### **Current projects:**

- Jiangsu Province Key Science and Technology Research and Development Project: Research and integrated demonstration on agricultural key techniques of combined farming and animal husbandry cycle in abandoned salt field (BE2018680). 2018.07-2021.06
- Jiangsu Province Important Agricultural New Variety Creation Project: Creation of new varieties of goat pepper with high quality, multiple tolerance and low temperature-light tolerance (PZCZ201715). 2018.01-2020.12
- Yangtze River Delta Science and Technology Joint Project: Research on key techniques of efficient and Sustainable soil and Water Environment Restoration in Yangtze River Delta region and Its Demonstration Application in Land Remediation (17295810600). 2017.07-2019.06
- General Program of the National Natural Science Foundation of China: Molecular mechanism of brassinolide-mediated polyamines-dependent antioxidation and ionic homeostasis in tomato under salt stress (31672141). 2017.01-2020.12
- National Key Technology Support Program: Study on High-yield and High-efficient cultivation techniques of Rice in Saline-alkali soil (2015BAD01B03). 2015.07-2019.06

#### **Current teaching:**

- Environmental Biology of Coastal Plants
- Marine Biology
- Introduction to Marine Science

**Selected publications (\* corresponding author):**

- Ruijie Ji, Liming Zhou, Jinglong Liu, **Qingsong Zheng\***, et al. Calcium-dependent protein kinase CPK31 interacts with arsenic transporter AtNIP1;1 and regulates arsenite uptake in *Arabidopsis thaliana*. PLOS one, 2017, 12(3): e0173681
- **Qingsong Zheng**, Jinlong Liu, Ran Liu, Hao Wu, Chaoqiang Jiang, Changhai Wang\*, Yongxiang Guan\*. Temporal and spatial distributions of sodium and polyamines regulated by brassinosteroids in enhancing tomato salt resistance. Plant and Soil, 2016, 400:147-164
- Kun Feng, Jiahong Yu, Yuan Cheng, Meiyong Ruan, Rongqing Wang, Qingjing Ye, Guozhi Zhou, Zhimiao Li, Zhuping Yao, Yuejian Yang, **Qingsong Zheng\***, Hongjian Wan\*. The SOD Gene Family in tomato: identification, phylogenetic relationships, and expression patterns. Frontiers in Plant Science, 2016, 7: Article 1279
- Jiang CQ, Cui QR, Feng K, Xu DF, **Zheng QS\***. Melatonin enhances plant salt tolerance by improving antioxidation and ion homeostasis in maize seedlings. Acta Physiologiae Plantarum, 2016, 38(82): 1-9
- Liu J, Gao H, Wang X, **Zheng Q\***, Wang Q, Wang X. Effects of 24-epibrassinolide on plant growth, osmotic regulation and ion homeostasis of salt-stressed canola. Plant Biology, 2014, 16: 440-450

**Prizes, awards, honors:**

- “515” Leading talent of Yancheng area, 2016
- Excellent Master degree thesis of NJAU: Liu JL. Effect of brassinolide on Salt tolerant regulation of three dicotyledonous plants and its Mechanism. Supervisor: Qingsong Zheng
- “133” Key talent project of NJAU, 2009