Xinyuan Huang

Professor of Plant Nutrition

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Education:

- Ph.D., Institute of Plant Physiology and Ecology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences; Plant Genetics; 2010
- B.S., Nanjing Agricultural University; Biotechnology; 2004

Research interests and expertise:

My research interest is to study the uptake, transport and accumulation of mineral nutrients and trace elements (*aks* ionome) in plants, with particularly interested in identification of the genes/QTLs controlling toxic elements Cd and As and beneficial elements Ca and Mo in rice grain by using approaches including QTL mapping, forward genetic screening et al. Research in my group is also trying to understand the genetic and epigenetic mechanisms maintaining of sulfur homeostasis in plants.

Current projects:

- Thousand Talents Plan for Young Scholars, 2018-2022, ￥2,000,000
- Natural Science Foundation of China (Grant No. 31772382), 2018-2021, ￥550,000
- Natural Science Foundation of Jiangsu Province for Distinguished Young Scholars (Grant No. KB20180023); 2018-2021, ￥1,000,000
- Fundamental Research Funds for the Central Universities (Grant No. KYZ201714); 2017-2019; ￥90,000

Current teaching:

- Soil Pollution and Control (English course for foreign undergraduates), Spring term

Selected publications:

- Huang XY, Deng F, Yamaji N, Pinson SR, Fujii-Kashino M, Danku J, Douglas A, Guerinot ML, Salt DE, Ma JF (2016) A heavy metal P-type ATPase OsHMA4 prevents copper accumulation in rice grain. Nature communications 7: 12138.
- Huang XY, Chao DY, Koprivova A, Danku J, Wirtz M, Muller S, Sandoval FJ, Bauwe H, Roje S, Dilkes B, Hell R, Kopriva S, Salt DE (2016) Nuclear localised MORE SULPHUR ACCUMULATION1 epigenetically regulates sulphur homeostasis in Arabidopsis thaliana. PLoS Genet 12: e1006298.
- Huang XY, Salt DE (2016) Plant ionomics: from elemental profiling to environmental adaptation. Mol Plant 9: 787-797.
- Huang XY, Chao DY, Gao JP, Zhu MZ, Shi M, Lin HX (2009) A previously unknown zinc finger protein, DST, regulates drought and salt tolerance in rice via stomatal aperture control. Genes Dev 23: 1805-1817.