

黄新元

教授

通信地址：南京农业大学资源与环境科学学院

电话：(+86) 2584399055

邮箱：xinyuan.huang@njau.edu.cn



从事专业：

植物遗传学，植物营养学，植物离子组学

研究方向：

植物重金属吸收、转运与积累的分子机理
植物微量元素积累与环境适应性的分子机制
植物硫素含量动态平衡的遗传与表观遗传调控机理

教育经历：

2004/09 - 2010/03，中国科学院上海生命科学研究院植物生理生态研究所，植物遗传学博士

2000/09 - 2004/07，南京农业大学农学院生物技术专业，理学学士

研究工作经历：

2016/09 - 至今，南京农业大学资源与环境科学学院，教授

2011/09 - 2016/09，英国阿伯丁大学生物与环境科学研究所，Research Fellow

2010/03 - 2011/09，美国普渡大学农学院园艺与景观学系，博士后

学术任职与服务：

Associate Faculty of F1000 (2013 年至今)
(<http://f1000.com/prime/thefaculty/member/499999771097520057>)。

Plant Physiology, *Molecular Plant*, *PLoS ONE*, *Journal of Plant Physiology*, *Plant and Soil*, *Journal of Plant Science* 等多个学术期刊审稿人。

主持科研项目：

南京农业大学高层次引进人才启动基金，100 万，2016-2021. 主持

申请专利：

获国家发明专利一项（水稻锌指蛋白转录因子新基因及抗旱耐盐应用，排名第二）。该专利已申请国际专利，并已获得日本、韩国、俄罗斯、澳大利亚和南非等国授权。

发表的文章:

1. **Huang, X.Y.**, Chao, D.Y., Koprivova, A., Danku, J., Yakubova, E., Wirtz, M., Müller, S., Sandoval, F.J., Bauwe, H., Roje, S., Dilkes, B., Hell, R., Kopriva, S., Salt, D.E. (2016). Nuclear localised MORE SULPHUR ACCUMULATION1 epigenetically regulates sulphur homeostasis in *Arabidopsis thaliana*. *PLoS Genetics*. (in press)
2. **Huang, X.Y.***, Deng, F.*, Yamaji, N., Pinson, S. R. M., Fujii-Kashino, M., Danku, J., Douglas, A., Guerinot, M.L., Salt, D.E., Ma, J.F. (2016). A heavy metal P-type ATPase OsHMA4 prevents copper accumulation in rice grain. *Nature communications* 7:12138. (*Equal contribution)
3. **Huang, X.Y.** & Salt, D.E. (2016). Plant ionomics: From elemental profiling to environmental adaptation. *Molecular Plant* 9, 787-97.
4. Rome, C., **Huang, X.Y.**, Danku, J., Salt, D.E. & Sebastiani, L. (2016). Expression of specific genes involved in Cd uptake, translocation, vacuolar compartmentalisation and recycling in *Populus alba* Villafranca clone. *Journal of Plant Physiology* 202, 83-91.
5. Busoms, S., Teres, J., **Huang, X.Y.**, Bomblies, K., Danku, J., Douglas, A., Weigel, D., Poschenrieder, C., and Salt, D.E. (2015). Salinity is an agent of divergent selection driving local adaptation of *Arabidopsis* to coastal habitats. *Plant Physiology*. 168, 915-929.
6. Forsberg, S.K.G., Andreatta, M.E., **Huang, X.Y.**, Danku, J., Salt, D.E., and Carlborg, Ö. (2015). The Multi-allelic genetic architecture of a variance-heterogeneity locus for molybdenum concentration in leaves acts as a source of unexplained additive genetic variance. *PLoS Genetics*. 11, e1005648.
7. Pinson, S.R.M., Tarpley, L., Yan, W., Yeater, K., Lahner, B., Yakubova, E., **Huang, X.Y.**, Zhang, M., Guerinot, M.L., and Salt, D.E. (2015). Worldwide Genetic Diversity for Mineral Element Concentrations in Rice Grain. *Crop Science*. 55, 294-311.
8. Zhang, M., Pinson, S.R.M., Tarpley, L., **Huang, X.Y.**, Lahner, B., Yakubova, E., Baxter, I., Guerinot, M.L., and Salt, D.E. (2014). Mapping and validation of quantitative trait loci associated with concentrations of 16 elements in unmilled rice grain. *Theor. Appl. Genet.* 127, 137-165.
9. **Huang, X.Y.***, Chao, D.Y.*, Gao, J.P., Zhu, M.Z., Shi, M., and Lin, H.X. (2009). A previously unknown zinc finger protein, DST, regulates drought and salt tolerance in rice via stomatal aperture control. *Genes & Development* 23, 1805-1817 (*Equal contribution)