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研究方向：植物耐盐生理，植物氮和钾营养分子生物学



受教育经历：

2007--2013，南京农业大学资环学院，植物营养专业，博士学位

2003--2007，南京农业大学资环学院，农业资源与环境专业，学士学位

研究工作经历：

2014.3--至今，南京农业大学，资源与环境科学学院海洋科学系，讲师

2007.9--2013.6，南京农业大学，资源与环境科学学院，植物营养系，硕博连读

2011.10-2012.10 英国约翰英纳斯研究中心(John Innes Centre)访问一年

科研项目：

1. 水稻硝酸盐转运蛋白 OsNPF2.1 参与硝酸盐、钾协同吸收利用的功能研究，国家自然科学基金青年基金项目 (31401938)，2015.01-2017.12，24 万，项目主持人
2. 黄淮海冲积平原半湿润-半干旱区盐碱地植物种质资源调查，国家科技计划项目子课题 (2015FY110500)，2015.5-2020.4，70 万，研究骨干

发表论文：

第一作者论文

1. Fan XR^{†*}, Feng HM[†], Tan YW, Xu YL, Miao QS, Xu GH. 2016. A putative 6-transmembrane nitrate transporter *OsNRT1.1b* plays a key role in rice under low nitrogen. *Journal of Integrative Plant Biology*. 58(6):590-599. (†Co-first author)
2. Liu XQ[†], Feng HM[†], Huang DM, Song MQ, Fan XR, Xu GH*. 2015. Two short sequences in *OsNAR2.1* promoter are necessary for fully activating the nitrate induced gene expression in rice roots. *Scientific Reports*.5:11950. (†Co-first author)
3. Feng HM, Xia XD, Fan XR*, Xu GH and Miller AJ*. 2013. Optimizing plant transporter expression in *Xenopus* oocytes. *Plant Methods* 9(1):48.
4. Feng HM[†], Fan XR[†], Yan M, Liu XQ, Shen QR, Miller AJ, Xu GH*. 2011. Multiple roles of nitrate transport accessory protein NAR2 in plants. *Plant Signal and Behavior* 6 (9):1286-1289. (†Co-first author)
5. Feng HM[†], Yan M[†], Fan XR, Li BZ, Shen QR, Miller AJ, Xu GH*. 2011. Spatial expression

and regulation of rice high-affinity nitrate transporters by nitrogen and carbon status. *Journal of Experimental Botany* 62 (7):2319-2332 . (†Co-first author)

6. **Feng HM**, Yan M, Li BZ, Fan XR, Xu GH. 2009. Expression analysis of the high-affinity nitrate transporters in rice: spatial expression and regulation by nitrate. *6th Progress on Post-genome Technologies*. (oral poster presentation)

其他论文

1. Chen G, **Feng HM**, Hu QD, Qu HY, Chen AQ, Yu L, Xu GH*. 2015. Improving rice tolerance to potassium deficiency by enhancing OsHAK16p:WOX11 controlled root development. *Plant Biotechnology Journal*. 2015,13:833-848.
2. Xia XD, Fan XR, Wei J, **Feng HM**, Qu HY, Xie D, Miller AJ, Xu GH*. 2014. Rice nitrate transporter OsNPF2.4 functions in low-affinity acquisition and long-distance transport. *Journal of Experimental Botany* 66(1):317-31.
3. Tang Z†, Fan XR†, Li Q, **Feng HM**, Miller AJ, Shen QR, Xu GH*. 2012. Knock Down of a Rice Stellar Nitrate Transporter Alters Long Distance Translocation but not Root Influx. *Plant Physiology* 160 (4):2052-63.
4. Yan M†, Fan XR†, **Feng HM**, Miller AJ, Shen QR, Xu GH*. 2011. Rice OsNAR2.1 interacts with OsNRT2.1, OsNRT2.2 and OsNRT2.3a nitrate transporters to provide uptake over high and low concentration range. *Plant Cell and Environment* 34(8): 1360-1372.
5. 李宝珍, 王松伟, **冯慧敏**, 徐国华. 氮素供应形态对水稻根系形态和磷吸收的影响. *中国水稻科学* 2008, 22 (5) : 665-669.