

## 申国境简历

### 联系方式

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### 研究方向

寄生植物与植物间的相互作用

### 学习经历

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2007.09-  
2014.06 生物化学与分子生物学, 硕博连读

华中农业大学 生命科学  
与技术学院; 导师: 邢永  
忠 教授

2003.09-  
2007.07 农业科学, 学士

河南科技大学 农学院

### 工作经历

2014.09–2020.12: 中国科学院昆明植物研究所, 助理研究员

2021.01-至今: 中国科学院昆明植物研究所, 副研究员

### 发表文章

Jingxiong Zhang, Yuxing Xu, Jing Xie, Huifu Zhang, Hui Liu, **Guojing Shen\***, Jianqiang Wu\*, parasite dodder enables transfer of bidirectional systemic nitrogen signals between host plants. *Plant Physiology*, 2020, <https://doi.org/10.1093/plphys/kiaa004>

**Guojing Shen<sup>#</sup>**, Nian Liu<sup>#</sup>, Jingxiong Zhang, Yuxing Xu, Ian T. Baldwin, Jianqiang Wu\*, *Cuscuta australis* (dodder) parasite eavesdrops on the host plants' FT signals to flower. *PNAS*, 2020, 117 (37): 23125-23130

Lei Gao<sup>#</sup>, **Guojing Shen<sup>#</sup>**, Lingdan Zhang, Jinfeng Qi, Cuiping Zhang, Canrong Ma, Jing Li, Lei Wang, Saif UI Malook, Jianqiang Wu\*, An efficient system composed of maize protoplast transfection and HPLC-MS for studying the biosynthesis and regulation of maize benzoxazinoids. *Plant Methods*, 2019, 15:144-156 (Co-First Author)

**Guojing Shen**, Wei Hu, Bo Zhang, Yongzhong Xing\*, The regulatory network mediated by circadian clock genes is related to heterosis in rice. *Journal of Integrative Plant Biology*, 2015, 57(3): 300-312

**Guojing Shen**, Yongzhong Xing\*, Two novel QTLs for heading date are identified using a set of chromosome segment substitution lines in rice (*Oryza sativa L.*). *Journal of Genetics and Genomics*, 2014, 41(12):659-662

**Guojing Shen**, Wei Zhan, Huaxia Chen, Yongzhong Xing\*, Dominance and epistasis are the main contributors to heterosis for plant height in rice. *Plant Science*, 2014, 215-216: 11-18

Nian Liu, **Guojing Shen**, Yuxing Xu, Hui Liu, Jingxiong Zhang, Shalan Li, Jing Li, Cuiping Zhang, Jinfeng Qi, Lei Wang, Jianqiang Wu\*, Extensive inter-plant protein transfer between *Cuscuta* parasites and their host plants. *Molecular plant*, 2019, 13, 573-585  
Shalan Li, Jingxiong Zhang, Hui Liu, Nian Liu, **Guojing Shen**, Huifu Zhuang, Jianqiang Wu\*, Dodder-transmitted mobile signals prime host plants for enhanced salt tolerance. *J Exp Bot*, 2020, 71:1171-1184

Yan Qin, Jingxiong Zhang, Christian Hettenhausen, Hui Liu, Shalan Li, **Guojing Shen**, Guoyan Cao, Jianqiang Wu\*, The host jasmonic acid pathway regulates the transcriptomic changes of dodder and host plant under the scenario of caterpillar feeding on dodder. *BMC Plant Biology*. 2019, 19: 540-551.

Guiling Sun<sup>#</sup>, Yuxing Xu<sup>#</sup>, Hui Liu<sup>#</sup>, Ting Sun, Jingxiong Zhang, Christian Hettenhausen, **Guojing Shen**, Jinfeng Qi, Yan Qin, Jing Li, Lei Wang, Wei Chang, Zhenhua Guo, Ian T.Baldwin, Jianqiang Wu\*, Large-scale gene losses underlie the genome evolution of parasitic plant *Cuscuta australis*. *Nature Communications*, 2018, 9:2683.

Jinfeng Qi, Saif ul Malook, **Guojing Shen**, Lei Gao, Cuiping Zhang, Jing Li, Jingxiong Zhang, Lei Wang, Jianqiang Wu\*, Current understanding of maize and rice defense against insect herbivores. *Plant Diversity*, 2018, 40: 189-195.

Yunting Lei, Yuxing Xu, Christian Hettenhausen, Chengkai lu, **Guojing Shen**, Jing Li, Honghui Lin\*, Jianqiang Wu\*, Comparative analysis of alfalfa (*Medicago sativa L.*) leaf

transcriptomes reveals genotype-specific salt tolerance mechanisms. BMC Plant Biology, 2018, 18:35.

Zhanyi Zhang<sup>#</sup>, Wei Hu<sup>#</sup>, **Guojing Shen**, Haiyang Liu, Yong Hu, Xiangchun Zhou, Touming Liu, Yongzhong Xing\*, Alternative functions of Hd1 in repressing or promoting heading are determined by Ghd7 status under long-day condition. Scientific Reports, 2017, 7:5388.

Wenhao Yan<sup>#</sup>, Haiyang Liu<sup>#</sup>, Xiangchun Zhou, Qiuping Li, Jia Zhang, Li Lu, Touming Liu, Haijun Liu, Chengjun Zhang, Zhanyi Zhang, **Guojing Shen**, Wen Yao, Huaxia Chen, Sibin Yu, Weibo Xie, Yongzhong Xing\*, Natural variation in Ghd7.1 plays an important role in grain yield and adaptation in rice., Cell Research, 2013, 23 (7) : 969-971

Jia Zhang<sup>#</sup>, Xiangchu Zhou<sup>#</sup>, Wenhao Yan<sup>#</sup>, Zhanyi Zhang, Li Lu, Zhongmin Han, Hu Zhao, Haiyang Liu, Pa Song, Yong Hu, **Guojiong Shen**, Qin He, Sibin Guo, Guoqing Gao, Gongwei Wang, Yongzhong Xing \*, Combinations of the Ghd7, Ghd8 and Hd1 genes largely define the ecogeographical adaptation and yield potential of cultivated rice, New Phytol, 2015, 208 (4) : 1056-1066

## 基金与项目

国家自然科学基金青年基金, 31600213, 野生番茄响应昆虫唾液中 FAC 诱导物的遗传基础研究, 2017/01-2019/12, 结题, 主持。

国家自然科学基金青年基金, 31800227, 寄主植物间通过菟丝子传递干旱系统性信号的研究, 2018/01-2020/12, 结题, 参与。

NSFC-云南省联合基金项目, U1502263,玉米丝裂原活化蛋白激酶(MAPK)信号系统抗虫功能及分子机理研究, 2016/03-2020/03, 结题, 参与。