粟忠祥 简历

联系方式

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研究方向

菌异养植物与真菌的相互作用

工作经历

2022.07-至今	**研究助理**	中国科学院昆明植物研究所

学习经历

2019.07-2022.06	**硕士，生物工程**	中国科学院昆明植物研究所 导师：吴建强 研究员
20015.09-2019.07	**生物工程，学士**	湖北民族大学科技学院

科研技能

生物化学与分子生物学

1. 植物及真菌总RNA、全基因组DNA提取、普通PCR、反转录PCR、实时荧光定量PCR、引物设计、分子克隆、western blot等基础生物化学与分子生物学实验技术。
2. 真菌原生质体制备、农杆菌介导的真菌遗传转化以及PEG介导的真菌原生质体转化。

科研成果

1. **Zhongxiang Su**, Hongjing Li, Yuxing Xu, Cuiping Zhang, Jianqiang Wu*, **Yunting Lei***. Establishment of an efficient *Agrobacterium tumefaciens*-mediated transformation system

for an *Armillaria* species, a host of the fully mycoheterotrophic plant *Gastrodia elata*. **Folia Microbiologica**, 2024 (accepted). ($IF_{5\text{-year}}$ = 2.5)

2. Zhan Che, Xue Na, **Su Zhongxiang**, Zheng Tianyin, Wu Jianqiang* (2025) RBOHD, GLR3.3, and GLR3.6 cooperatively control wounding hypocotyl-induced systemic Ca2+ signals, jasmonic acid, and glucosinolates in Arabidopsis leaves. Plant Diversity (in press).
3. Zhao, M., Zheng, X., **Su, Z.**, Shen, G., Xu, Y., Feng, Z., Li, W., Zhang, S., Cao, G., Zhang, J.*, Wu, J.* MicroRNA399s and strigolactones mediate systemic phosphate signaling between dodder-connected host plants and control the association of host plants with rhizosphere microbes. New Phytologist, 2024 (in press)
4. 李宏敬, 李锡琴, **粟忠祥**, 仇全雷, 雷云霆. 一株小菇属天麻萌发菌原生质体的制备、再生和应用. **陕西科技大学学报**, 2024 (接收).
5. 袁炎, **粟忠祥**, 许宇星, 李宏敬, 仇全雷, 徐波, 雷云霆*. 基于全基因组重测序的天麻多态性分子标记开发及特征分析, **分子植物育种**, 2023: 1-11. https://kns.cnki.net/kcms/detail/46.1068.S.20230506.1033.010.html
6. Yuxing Xu#, Yunting Lei#, **Zhongxiang Su**, Man Zhao, Jinxiong Zhang, Guojing Shen, Lei Wang, Jing Li, Jingfeng Qi, Jianqiang Wu*. A chromosome-scale *Gastrodia elata* genome and large-scale comparative genomic analysis indicate convergent evolution by gene loss in mycoheterotrophic and parasitic plants. **Plant Journal**, 2021, 108(6): 1609-1623. ($IF_{5\text{-year}}$ = 7.9, Web of Science数据库引用43次) https://www.ncbi.nlm.nih.gov/pubmed/34647389