



学院概况

机构设置

师资队伍

科学研究

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研究方向: 果树生物技术与种质创新

## 主要业绩

### I. 教学工作

园艺作物育种学(I、II), 高级园艺作物遗传育种学, 园艺学实验技术, Advanced Horticultural Plant Genetics and Breeding (英文授课)

### II. 科研工作

#### 科研项目

1. 国家自然科学基金面上项目, “独脚金内酯通过MdBRC1调控苹果不定根发生的分子机制”, (2023. 1-2026. 12), 主持
2. 国家自然科学基金面上项目, “基于解析miR156-SPL调控苹果不定芽再生的分子机制提高遗传转化效率的研究”, (2021. 1-2024. 12), 主持
3. 国家自然科学基金青年项目, “基于CRISPR/Cas9瞬时表达技术研究独脚金内酯合成关键基因调控苹果砧木不定根发生的分子机制”, (2019. 1-2021. 12), 主持
4. 国家重点研发计划子课题, “砧木调控接穗的致矮机制”, (2018. 07-2022. 12), 主持

#### 论文及著作

- 1) Li, H., Sun, H., Dong, H., Wang, S., Fan, X., Li, Y., Cheng, L., Zhang, Z., Wang, Y., Zhang, X., Xu, X., Han, Z.\* and Li, W\*. (2023) Genome editing of apple *SQUAMOSA PROMOTER BINDING PROTEIN-LIKE 6* enhances adventitious shoot regeneration. **Plant Physiology** 191, 840-843. (\*通讯作者)
- 2) Fan, X., Li, Y., Deng, C.H., Wang, S., Wang, Z., Wang, Y., Qiu, C., Xu, X., Han, Z.\* and Li, W\*. (2023) Strigolactone regulates adventitious root formation via MdSMXL7-MdWRKY6- *MdBRC1* signaling cascade in apple. **Plant Journal** 113, 772-786. (\*通讯作者)
- 3) Fan, X., Li, H., Guo, Y., Sun, H., Wang, S., Qi, Q., Jiang, X., Wang, Y., Xu, X., Qiu, C., Li, W.\* and Han, Z.\* (2022) Integrated multi-omics analysis uncovers roles of mdm-miR164b-*MdORE1* in strigolactone-mediated inhibition of adventitious root formation in apple. **Plant Cell & Environment** 45, 3582-3603. (\*通讯作者)
- 4) Zhai, L., Wang, X., Tang, D., Qi, Q., Yer, H., Jiang, X., Han, Z., McAvoy, R., Li, W.\* and Li, Y.\* (2021) Molecular and physiological characterization of the effects of auxin-enriched rootstock on grafting. **Horticulture Research** 8, 74. (\*通讯作者)
- 5) Li, W., Zhai, L., Strauss, S., Yer, H., Merewitz, E., Chen, J., Wang, X., Zhuang, W., Chen, Y., McAvoy, R., Han, Z. and Li, Y. (2019) Transgenic reduction of cytokinin levels in roots inhibits root-sprouting in *Populus*. **Plant Physiology** 180, 1788-1792
- 6) Li, W., Fang, C., Krishnan, S., Chen, J., Yu, H., Murphy, A. S., Merewitz, E., Katin-Grazzini, L., McAvoy, R. J., Deng, Z., Zale, J. and Li, Y. (2017) Elevated auxin and reduced cytokinin contents in rootstocks improve their performance and grafting success. **Plant Biotechnology Journal** 15, 1556-1565.
- 7) Li, W., Hu, W., Fang, C., Chen, L., Zhuang, W., Katin-Grazzini, L., McAvoy, R. J., Guillard, K. and Li, Y. (2016) An *AGAMOUS* intron-driven cytotoxin leads to flowerless tobacco and produces no detrimental effects on vegetative growth of either tobacco or poplar. **Plant Biotechnology Journal** 14, 2276-2287.
- 8) Chen, L.#, Li, W.#, Katin-Grazzini, L.#, Ding, J.#, Gu, X., Li, Y., Gu, T., Wang, R., Lin, X., Deng, Z., McAvoy, R., Gmitter, F., Deng, Z., Zhao, Y. and Li, Y. (2018) A method for the production and expedient screening of CRISPR/Cas9- mediated non-transgenic mutant plants. **Horticulture Research** 5, 13. (#共同一作)

### III. 学术兼职

- 1) 中国园艺学会分子育种分会副秘书长
- 2) Horticultural Plant Journal 编委、《植物资源与环境学报》编委、Fruit Research青年编委

### IV. 奖励情况

- 1) 2022年, 中国农业大学青年教师教学基本功比赛三等奖
- 2) 2022年, 中国农业大学园艺学院青年教师教学基本功比赛一等奖
- 3) 2020年, 中国农业大学园艺学院青年教师教学基本功比赛二等奖



