

Shenchun Qu



Areas of Research

Cultivation, breeding and biotechnology of pomology

Contact Information

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Research Interests

Functional genomics of cultivation traits in fruit trees: especially of grafting and resistance-related
Small RNAs in the mechanisms of fruit disease defenses
Physiological and biochemical study of fruit cultivation
Water and fertilizer management for orchard

Education Background

Doctor: Pomology, Nanjing Agricultural University

Work experience

Professor, Nanjing Agricultural University, 2010.12-present

Associate Professor, Nanjing Agricultural University, 2005.6-2010.11

Vice director, Xuzhou Fruit Research Institute of Jiangsu Province, 1988.7-2005.5

Selected Publication

Yu Xinyi, Gong Hongyong, Cao Lifang, Hou Yingjun, **Qu Shenchun***. *MicroRNA397b* negatively regulates resistance of *Malus hupehensis* to *Botryosphaeria dothidea* by modulating *MhLAC7* involved in lignin biosynthesis. *Plant Science*, 2020,292:110390.

Weibing Zhuang, Tianyu Liu, Xiaochun Shu, Hongxue Wang, Zhong Wang, Tao Wang, Fengjiao Zhang and **Shenchun Qu***. Overexpression of MzASMT 1, a Gene From *Malus zumi* Mats, Enhances Salt Tolerance in Transgenic Tobacco. *Frontiers in Plant Science*, 2020, 11:561903. doi: 10.3389/fpls.2020.561903.

Shen Yanying, Zhuang Weibing, Tu Xutong, Gao Zhihong, Xiong Aisheng, Yu Xinyi, Li Xuehan, Li Feihong, **Qu Shenchun***. Transcriptomic analysis of interstock induced dwarfism in Sweet Persimmon (*Diospyros kaki* Thunb.). *Horticulture Research*, 2019, 6:51.

Dong Yuhan, Wang Peihong, Jiang Mengting, **Qu Shenchun***. Antioxidant and the dwarfing candidate gene of 'Nantongxiaofangshi' (*Diospyros kaki* Thunb.). *Oxidative Medicine and Cellular Longevity*, 2019, 2019:1629845.

Mo-Xian Chen, Chao Sun, Kai-Lu Zhang, Yu-Chen Song, Yuan Tian, Xi Chen, Ying-Gao Liu, Neng-Hui Ye, Jianhua Zhang, **Shenchun Qu***, Fu-Yuan Zhu. SWATH-MS-facilitated proteomic profiling of fruit skin between Fuji apple and a red skin bud sport mutant. *BMC Plant Biology*, 2019, 19:445-457

Li Feihong, Sun Chao, Li Xuehan, Yu Xinyi, Luo Chao, Shen Yanying, **Qu Shenchun***. The effect of graphene oxide on adventitious root formation and growth in apple. *Plant Physiology and Biochemistry*, 2018, 129:122-129.

Yu Xinyi, Hou Yingjun, Chen Weiping, Wang Sanhong, Wang Peihong, **Qu Shenchun***. *Malus hupehensis* miR168 targets to *ARGONAUTE1* and contributes to the resistance against *Botryosphaeria dothidea* infection by altering defense responses. *Plant and Cell Physiology*, 2017, 58(9):1541-1557.

Zhang Shijie, Chen Weiping, Xin Lu, Gao Zhihong, Hou Yingjun, Yu Xinyi, Zhang Zhen, **Qu Shenchun***. Genomic variants of genes associated with three horticultural traits in apple revealed by genome re-sequencing. *Horticulture Research*, 2014, 1:14045.

Yu Xinyi, Du Beibei, Gao Zhihong, Zhang Shijie, Tu Xitong, Chen Xiaoyun, Zhang Zhen, **Qu Shenchun***. Apple ring rot-responsive putative microRNAs revealed by high-throughput sequencing in *Malus × domestica* Borkh. *Molecular Biology Reports*, 2014, 41(8):5273-5286.

Du Xiaoli, Du Beibei, Chen Xiukong, Zhang Shijie, Zhang Zhen, **Qu Shenchun***. Overexpression of the *MhTGA2* gene and increased tolerance to salt stress in transgenic apple. *Journal of Agricultural Science*, 2014, 152(4):634-641.