

# Xun Sun

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## Areas of Research

The mechanism and regulation of disease resistance of pear

## Contact Information

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## Research Interests

### The mechanism and regulation of disease resistance of pear

Xun Sun integrates the function of genes in pear under pathogen infection, including autophagy-related gene, calcium-related gene and pathogen-related gene.

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## Education Background

**Bachelor:** Northwest A&F University

**Doctor:** Northwest A&F University

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## Work experience

Lecturer, Nanjing Agricultural University, 2018-

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## Selected Publication

1. Sun Xun#, Wang Ping#, Jia Xin, Huo Liuqing, Che Runmin, Ma Fengwang\*. Improvement of drought tolerance by overexpressing MdATG18a is mediated by modified antioxidant system and activated autophagy in transgenic apple. 2018. Plant Biotechnology Journal. 16(2): 545-557.

2. Sun Xun #, Jia Xin #, Huo Liuqing, Che Runmin, Gong Xiaoqing, Wang Ping\*, Ma Fengwang\*. MdATG18a overexpression improves tolerance to nitrogen deficiency and regulates anthocyanin accumulation through increased autophagy in transgenic apple. 2018. *Plant, Cell & Environment*. 41:469-480.

3. Sun Xun, Huo Liuqing, Jia Xin, Che Runmin, Gong Xiaoqing, Wang Ping, Ma Fengwang\*. Overexpression of MdATG18a improves resistance to *Diplocarpon mali* infection by improving antioxidant system activity and salicylic acid level in apple. 2018. *Horticulture Research*.5(1): 57

4. Sun Xun, Pan Bisheng, Wang Yun, Xu Wenyu, and Zhang Shaoling. Exogenous Calcium Improved Resistance to *Botryosphaeria dothidea* by Increasing Autophagy Activity and Salicylic Acid Level in Pear.2020. *Molecular Plant-Microbe Interactions* 33:9, 1150-1160

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