

# Xiong Jinsong

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## Areas of Research

Plant disease resistance

## Contact Information

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## Research Interests

### Plant disease resistance

Our research mainly focuses on functional genomics by the use of strawberry as model system. We are particularly interested in the following aspect of strawberry:

### Disease resistance

Plants are sessile organisms that are constantly under the threaten of potential virulent microbes. Among these microbes, *Botrytis cinerea*, the cause of grey mold disease, is one of the most disastrous pathogenic fungus to strawberry. However, the defense mechanisms of strawberry to *B. cinerea* are largely unknown. We utilize the approaches of molecular biology, biochemistry and genetics to identification and characterization key genes that play roles in disease resistance, to dissect the molecular defense mechanisms against fungal pathogens in strawberry.

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## Education Background

**Bachelor:** Hunan University of Arts and Science

**Master:** Sun Yat-Sen University

**Doctor:** Sun Yat-Sen University

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## Work experience

Postdoctoral research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, 2010.07-2013.09

Lecturer, Nanjing Agricultural University, 2013.11-2019.11

Associate Professor, Nanjing Agricultural University, 2019.12-

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## Selected Publication

**Xiong Jinsong\***, Bai Yibo, Ma Chuangju, Zhu Hongyu, Zheng Dan, Cheng Zongming\*. Molecular Cloning and Characterization of SQUAMOSA-Promoter Binding Protein-Like Gene FvSPL10 from Woodland Strawberry (*Fragaria vesca*). *Plants*, 2019, 8 (9), 342.

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transcription factor repressed by D53 in strigolactone signaling in rice. *Cell Research*, 2017, 27(9): 1128–1141.

Liu Jinyi, Chen Nana, Cheng Zongming\*, **Xiong Jinsong\***. Genome-wide identification, annotation and expression profile analysis of SnRK2 gene family in grapevine. *Australian Journal of Grape and Wine Research*, 2016, 22: 478–488.

**Xiong Jinsong\***, Ding Jing, Li Yi\*. Genome-editing technologies and their potential application in horticultural crop breeding. *Horticulture Research*, 2015, 2, 15019.

Wang Xiaolong, Zhong Yan, Cheng Zongming, **Xiong Jinsong\***. Divergence of the bZIP Gene Family in Strawberry, Peach, and Apple Suggests Multiple Modes of Gene Evolution after Duplication. *International Journal of Genomics*, 2015, 2015, 536943.

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