

# Su Jiangshuo

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## **Lecturer**

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## **Areas of Research**

Quantitative genetics, population genetics, bioinformatics.

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## **Research Interests**

Many horticultural traits of chrysanthemum are complex quantitative traits. However, research on the inheritance mode of these traits in chrysanthemum is rather difficult for a combination of reasons that include genome complexity, high heterozygosity, and the occurrence of both inbreeding depression and self-incompatibility. Some of the problems we are currently working on are described below:

- (1) Deciphering the genetic mode and key candidate genes for major abiotic stress and ornamental traits in chrysanthemum by linkage mapping, GWAS, BSA, BSR-seq methods.
  - (2) The population genetic and domestication history of chrysanthemums.
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## **Education Background**

Sep 2014 – Jun 2019 Nanjing Agricultural University, Doctor of Agriculture

Sep 2010 – Jun 2014 Nanjing Agricultural University, Bachelor of Agriculture

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## **Work experience**

Aug 2019 – Nanjing Agricultural University, Postdoctor

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## Grands

(1) Principal Investigator on the China Postdoctoral Science Foundation (2019M661870), 2019.08 – 2021.08

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## Publications

- (1) **Su Jiangshuo**, Zhang Fei, Chong Xinran, Song Aiping, Guan Zhiyong, Fang Weimin, Chen Fadi\*. 2019. Genome-wide association study identifies favorable SNP alleles and candidate genes for waterlogging tolerance in chrysanthemums, *Horticulture Research*, 6(1):21. (IF<sub>5years</sub>: 5.404)
- (2) **Su Jiangshuo**, Jiang Jiafu, Zhang Fei, Liu Ye, Ding Lian, Chen Sumei, Chen Fadi\*. 2019. Current achievements and future prospects in the genetic breeding of chrysanthemum: a review, *Horticulture Research*, 6:109. (IF<sub>5years</sub>: 5.404)
- (3) **Su Jiangshuo**, Zhang Fei, Wu Shaofang, Xiong Siyi, Shi Liming, Guan Zhiyong, Fang Weimin, Chen Fadi\*. 2018. Dynamic and epistatic QTL mapping reveals the complex genetic architecture of waterlogging tolerance in chrysanthemum, *Planta*, 247(4):899-924. (IF<sub>5years</sub>: 3.687)
- (4) **Su Jiangshuo**, Zhang Fei, Yang Xincheng, Feng Yixuan, Yang Xiaodong, Wu Yangyang, Guan Zhiyong, Fang Weimin, Chen Fadi\*. 2017. Combining ability, heterosis, genetic distance and their intercorrelations for waterlogging tolerance traits in chrysanthemum, *Euphytica*, 213(2):42. (IF<sub>5years</sub>: 1.883)
- (5) **Su Jiangshuo**, Zhang Fei, Li Pirui, Guan Zhiyong, Fang Weimin, Chen Fadi\*. 2016. Genetic variation and association mapping of waterlogging tolerance in chrysanthemum, *Planta*, 244(6):1241-1252. (IF<sub>5years</sub>: 3.687)
- (6) Chen Fadi, **Su Jiangshuo**, Zhang Fei, Wang Haibin, Guan Zhiyong, Fang Weimin. A molecular marker significantly related to waterlogging tolerance of chrysanthemum and its identification method and application. Patent No: ZL201610562438.8
- (7) Chen Fadi, Li Pirui, **Su Jiangshuo**, Zhang Fei, Wang Haibin, Jiang Jiafu, Fang Weimin. A molecular marker associated with chrysanthemum salt tolerance related and its obtaining method and application. Patent No: ZL201510587614.9
- (8) Chen Fadi, Wang Chuchu, **Su Jiangshuo**, Zhang Fei, Guan Zhiyong, Chen Sumei, Wang Haibin, Fang Weimin. Molecular markers, screening methods and applications of aphid resistance in chrysanthemum. Patent No: ZL201410568698.7