



蒋甲福 博士、教授、博士生导师

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1. 个人简介：

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| 1995-1999 | 南京农业大学 | 学士学位 |
| 1999-2002 | 南京农业大学 | 硕士学位 |
| 2002-2006 | 中国科学院植物研究所 | 博士学位 |
| 2006-2007 | 新加坡国立大学 | 博士后 |
| 2007-2010 | 美国得州理工大学 | 博士后 |
| 2011.3- | 南京农业大学园艺学院 | 教授，博士生导师 |

2. 研究方向与承担项目：

研究领域为观赏植物遗传育种与分子生物学，主要从事菊花开花分子机理调控，生物技术育种等研究工作。先后主持国家自然科学基金重点项目1项、国家自然科学基金面上项目4项、教育部新世纪优秀人才支持计划和南京农业大学高层次人才引进项目等。

3. 学术兼职：

担任 Journal of Pineal Research、Plant Molecular Biology、Molecular Breeding、Plant Science、Plant Cell Report 等 SCI 杂志审稿人。中国园艺学会青年分会常务理事及副秘书长，中国菊花研究会、江苏省园艺学会等会员。

4. 荣誉称号：

先后入选“教育部新世纪优秀人才”、江苏省“青蓝工程”中青年学术带头人、江苏省“双创计划”人才和江苏省“333 高层次人才培养工程”培养对象，荣获“大北农青年学者奖”。

5. 科研成果：

任现职以来，以通讯作者（含并列）在 Journal of Pineal Research、Plant Biotechnology Journal、Horticulture Research、BMC Plant Biology、BMC Genomics、Plant Science 和 Plant Cell Report 等刊物发表 SCI 论文 20 余篇。以第 1 完成人获授权国家发明专利 2 项，3 个菊花品种获得农业部新品种权，2 个菊花品种通过江苏省农作物新品种鉴定。参与获得省部级奖项多项。

发表文章 (*通讯作者) :

- 1) Lijun Wang, Jing Sun, Liping Ren, Min Zhou, Xiaoying Han, Lian Ding, Fei Zhang, Zhiyong Guan, Weimin Fang, Sumei Chen, Fadi Chen, **Jiafu Jiang***. CmBBX8 accelerating flowering by targeting *CmFTL1* directly in summer chrysanthemum. **Plant Biotechnology Journal.** 2019 (In press).
- 2) Hong Chen, Huang Fei, Yanan Liu, Peilei Cheng, Zhiyong Guan, Weimin Fang, Sumei Chen, Fadi Chen, Jiafu Jiang*. Constitutive expression of the chrysanthemum CmBBX29 delays flowering time in transgenic Arabidopsis. Published on the web 20 September 2019. **Canadian Journal of Plant Science**, <https://doi.org/10.1139/CJPS-2018-0154>
- 3) Lijun Wang, Gao J, Zhang Z, Liu W, Cheng P, Mu W, Su T, Chen S, Chen F, **Jiafu Jiang***. Over-expression of CmSOS1 confers waterlogging tolerance in Chrysanthemum. **J Integr Plant Biol.** 2019 Nov 19. doi: 10.1111/jipb.12889.
- 4) Qi Ping, Peilei Cheng, Fei Huang, Liping Ren, Hua Cheng, Zhiyong Guan, Weimin Fang, Sumei Chen, Fadi Chen, **Jiafu Jiang***. The heterologous expression in Arabidopsis thaliana of a chrysanthemum gene encoding the BBX family transcription factor CmBBX13 delays flowering. **Plant Physiol Biochem.** 2019 144: 480-487.
- 5) Zixin Zhang, Qian Hu, Yanan Liu, Peilei Cheng, Hua Cheng, Weixin Liu, Xiaojuan Xing, Zhiyong Guan, Weimin Fang, Sumei Chen, **Jiafu Jiang***, Fadi Chen*. Strigolactone represses the synthesis of melatonin, thereby inducing floral transition in *Arabidopsis thaliana* in an FLC-dependent manner. **Journal of Pineal Research** 2019; 00: e12582. doi.org/10.1111/jpi.12582 (*Co-corresponding author, IF 15.221)
- 6) Zixin Zhang, Qian Hu, Hua Cheng, Peilei Cheng, Yanan Liu, Weixin Liu, Xiaojuan Xing, Sumei Chen, Fadi Chen, **Jiafu Jiang***. A single residue change in the product of the chrysanthemum gene TPL1-2 leads to a failure in its repression of flowering. **Plant Science** (2019) 285: 165–174
- 7) Yanan Liu, Hong Chen, Qi Ping, Zixin Zhang, Zhiyong Guan, Weimin Fang, Sumei Chen, Fadi Chen, **Jiafu Jiang***, Fei Zhang*. The heterologous expression of CmBBX22 delays leaf senescence and improves drought tolerance in Arabidopsis. **Plant Cell Reports** (2019) 38:15-24 (*Co-corresponding author)
- 8) Jing Sun, Peipei Cao, Lijun Wang, Sumei Chen, Fadi Chen, **Jiafu Jiang***. The loss of a single residue from CmFTL3 leads to the failure of florigen to flower. **Plant Science** 276 (2018) 99-104

- 9) Qi Yuyin, Liu Yanan, Zhang Zixin, Gao Jiaojiao, Guan Zhiyong, Fang Weimin, Chen Sumei, Chen Fadi, **Jiang Jiafu***. The over-expression of a chrysanthemum gene encoding an RNA polymerase II CTD phosphatase-like 1 enzyme enhances tolerance to heat stress. **Horticulture Research** (2018) 5:37.
- 10) Peilei Cheng, Bin Dong, Heng Wang, Peipei Cao, Tao Liu, Yanan Liu, Jiaojiao Gao, Yuan Liao, Weimin Fang, Sumei Chen, Fadi Chen, **Jiafu Jiang***. A Transcriptomic Analysis Targeting Genes Involved in the Floral Transition of Winter-Flowering Chrysanthemum. **J Plant Growth Regul.** (2018) 37:220-232
- 11) Peilei Cheng, Jiaojiao Gao, Yitong Feng, Zixin Zhang, Yanan Liu, Weimin Fang, Sumei Chen, Fadi Chen, **Jiafu Jiang***. The chrysanthemum leaf and root transcript profiling in response to salinity stress. **Gene**. (2018) 674:161-169
- 12) Jing Sun, Heng Wang, Liping Ren, Sumei Chen, Fadi Chen and **Jiafu Jiang***. CmFTL2 is involved in the photoperiod- and sucrose-mediated control of flowering time in chrysanthemum. **Horticulture Research** (2017) 4, 17001
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- 14) Dong B, Deng Y, Wang H, Gao R, Stephen GK, Chen S, **Jiafu Jiang***, Chen F*. Gibberellic Acid Signaling Is Required to Induce Flowering of Chrysanthemums Grown under Both Short and Long Days. **Int J Mol Sci**. 2017 Jun 12;18(6): E1259(*Co-corresponding author)
- 15) Mao Yachao, Sun Jing, Cao Peipei , Zhang Rong , Fu Qike, Chen Sumei, Chen Fadi, **Jiang Jiafu***. Functional analysis of alternative splicing of the FLOWERING LOCUS T orthologous gene in Chrysanthemum morifolium. **Horticulture Research**. 2016, 3: 16058.
- 16) Liping Ren, Tao Liu, Yue Cheng, Jing Sun, Jiaojiao Gao, Bin Dong, Sumei Chen, Fadi Chen and **Jiafu Jiang***. Transcriptomic analysis of differentially expressed genes in the floral transition of the summer flowering chrysanthemum. **BMC Genomics** (2016) 17:673 (**IF, 4.40**)
- 17) Jiaojiao Gao, Jing Sun, Peipei Cao, Liping Ren, Chen Liu, Sumei Chen, Fadi Chen, and **Jiang Jiafu***. Variation in tissue Na⁺ content and the activity of SOS1 genes among two species and two related genera of Chrysanthemum. **BMC Plant Biol**. 2016; 16: 98 (**IF, 3.94**)

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- 19) Wang Haibin, Qi Xiangyu, Chen Sumei, Fang Weimin, Guan Zhiyong, Teng Nianjun, Liao Yuan, **Jiang Jiafu*** & Chen Fadi*. Limited DNA methylation variation and the transcription of MET1 and DDM1 in the genus Chrysanthemum (Asteraceae): following the track of polyploidy. **Frontiers in Plant Science**, 2015, 6: 668. (*Co-corresponding author; IF, 3.948)
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- 21) Sun Jing, Ren Liping, Cheng Yue, Gao Jiaojiao, Dong Bin, Chen Sumei, Chen Fadi*, **Jiang Jiafu***. Identification of differentially expressed genes in *Chrysanthemum nankingense* (Asteraceae) under heat stress by RNA Seq. **Gene**, 552: 59-66, 2014 (*Co-corresponding author; IF, 2.08)
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- 28) Li J[#], **Jiang JF**[#], Qian Q[#], Xu Y, Zhang C, Xiao J, Du C, Luo W, Zou G, Chen M, Huang Y, Feng Y, Cheng Z, Yuan M, Chong K. Mutation of rice BC12/GDD1, which encodes a Kinesin-like protein that binds to a GA biosynthesis gene promoter, leads to dwarfism with impaired cell elongation. *The Plant Cell*. 23: 628–640, 2011 (#Co-first author; IF, 9.396).
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- 32) **Jiang Jiafu**, Xu Y, Chong Kang. Overexpression of *OsJAC1*, a lectin gene, suppresses the coleoptile and stem elongation in rice. *Journal of Integrative Plant Biology*. 49 (2): 230~237, 2007. (IF 3.448)
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