



蒋甲福 教授、博士生导师

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### 1. 个人简介:

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. 研究兴趣:

研究领域为观赏植物遗传育种与分子生物学, 主要从事菊花新基因挖掘、分离与功能鉴定, 生物技术育种及新品种选育等研究工作。

### 3. 主持项目:

国家自然科学基金(No.31171987、31372100、31572159)

教育部新世纪优秀人才支持计划(NCET-12-0890)

江苏省自然科学基金面上项目(BK2012773)

南京农业大学高层次人才引进项目

### 4. 获奖:

主要参与完成的“菊花优异基因资源发掘与利用”成果获江苏省科学技术进步奖一等奖(2012, 排名 7/11), 此外, 还获江苏省科技进步二等奖(2003, 排名 8/14), 农业部神农中华农业科技进步奖二等奖(2007, 排名 13/15)和教育部科技进步二等奖(2009, 排名 11/14); 参与完成省部级一等奖 1 项。

### 5. 专利与品种:

获授权国家发明专利 6 项, 2 个菊花品种通过江苏省农作物新品种鉴定(第 1 完成人)。

### 6. 荣誉:

2012 年入选“教育部新世纪优秀人才”和江苏省“青蓝工程”中青年学术带头人; 2013 年入选江苏省“333 高层次人才培养工程”第三层次培养对象; 2014 年入选江苏省“双创计划”人才; 2016 年获“大北农青年学者奖”。

### 7. 社会兼职:

担任 *Scientia Horticulturae*、*Journal of Plant Growth Regulation*、*Plant cell Report* 等杂志审稿人。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、江苏省遗传学会、江苏省菊花专业委员会等会员。

#### 8. 部分发表文章:

- 1) 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**)
- 2) Jiaojiao Gao, Jing Sun, Peipei Cao, Liping Ren, Chen Liu, Sumei Chen, Fadi Chen, and **Jiang Jiafu\***. Variation in tissue Na<sup>+</sup> 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**)
- 3) Bin Dong, Haibin Wang, Aiping Song, Tao Liu, Yun Chen, Weimin Fang, Sumei Chen, Fadi Chen, Zhiyong Guan\* and **Jiafu Jiang\***. miRNAs Are Involved in Determining the Improved Vigor of Autotetraploid Chrysanthemum nankingense. **Frontiers in Plant Science**, 2016, 7: 1412. (\*Co-corresponding author; **IF, 3.948**)
- 4) WangHaibin, Qi Xiangy, 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**)
- 5) Ren Liping, Sun Jing, Chen Sumei, Gao Jiaojiao, Dong Bin, Liu Yanan, Xia Xiaolong, Wang Yinjie, Liao Yuan, Teng Nianjun, Fang Weimin, Guan Zhiyong, Chen,Fadi\*, **Jiang Jiafu\***. A transcriptomic analysis of *Chrysanthemum nankingense* provides insights into the basis of low temperature tolerance. **BMC Genomics**, 15:844, **2014** (\*Co-corresponding author; **IF, 4.40**)
- 6) 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**)
- 7) Zhao Min, Song Aiping, Li Peiling, Chen Sumei, **Jiang Jiafu\***, Fadi Chen\*. A bHLH transcription factor regulates iron intake under Fe deficiency in chrysanthemum. **Scientific Reports**, 4, 6694, **2014** (\*Co-corresponding author; **IF, 5.08**)
- 8) Huiyun Li, Sumei Chen, Aiping Song, Haibin Wang, Weimin Fang, Zhiyong Guan, **Jiafu Jiang\***, Fadi Chen\*. RNA-Seq derived identification of differential transcription in the chrysanthemum leaf following inoculation with *Alternaria tenuissima*. **BMC Genomics**. 15:9, **2014** (\*Co-corresponding author; **IF, 4.40**).
- 9) Wang Haibin, **Jiang Jiafu\***, Chen Sumei, Fang Weimin, Guan Zhiyong, Liao Yuan, Chen Fadi\*. Rapid genomic and transcriptomic alterations induced by wide hybridization: *Chrysanthemum nankingense* x *Tanacetum vulgare* and *C. crassum* x *Crossostephium chinense* (Asteraceae). **BMC Genomics**. 14: 902, **2013** (\*Co-corresponding author; **IF, 4.40**).

- 10) Liu Peng, Chen Sumei, Song Aiping, Zhao Shuang, Fang Weimin, Guan Zhiyong, Liao Yuan, **Jiang Jiafu\***, Fadi Chen\*. A putative high affinity phosphate transporter, CmPT1, enhances tolerance to Pi deficiency of chrysanthemum. *BMC Plant Biology*. 14:18, **2014** (\*Co-corresponding author; IF, 3.94)
- 11) **Jiafu Jiang**, Bangshing Wang, Yun Shen, Hui Wang, Qing Feng, Huazhong Shi. The Arabidopsis RNA binding protein with K homology motifs, SHINY1, interacts with the C-terminal domain phosphatase-like 1 (CPL1) to repress stress-inducible gene expression. *PLoS Genetics*. 9(7): e1003625, **2013** (IF, 9.44).
- 12) Chen Yu\*, **Jiang Jiafu\***, Song Aiping, Chen Sumei, Shan Hong, Luo Huolin, Gu Chunsun, Sun Jing, Zhu Lu, Fang Weimin, Chen Fadi. Ambient temperature enhanced freezing tolerance of Chrysanthemum dichrum CdICE1 Arabidopsis via miR398. *BMC Biology*. 11:121, **2013** (\*Co-first author; IF, 6.53).
- 13) 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).
- 14) Baek Daek, **Jiang Jiafu (co-first author)**, Chung Jung-Sung, Wang Bangshing, Chen Junping, Xin Zhanguo, Shi Huazhong. *AtHKT1* Gene expression regulated by a distal enhancer element and DNA methylation in promoter plays an important role in salt tolerance. *Plant Cell and Physiology*. 52(1): 149~61. **2011**
- 15) Song Aiping, Lou Wanghui, **Jiang Jiafu (co-first author)**, Chen Sumei, Sun Zuxia, Guan Zhiyong, Fang Weimin, Teng Nianjun, Chen Fadi. An Isoform of Eukaryotic Initiation Factor 4E from *Chrysanthemum morifolium* interacts with *Chrysanthemum Virus B* Coat Protein. *PLoS ONE*. **8** (3): e57229. **2013**
- 16) **Jiang JF**, Li J, Xu Y, Han Y, Bai Y, Zhou G, Lou Y, Xu Z, Chong K. RNAi knockdown of *OsRMC* led to altered root development and coiling which were mediated by jasmonic acid signaling in rice. *Plant, Cell and Environment*. 30(6): 690~699, **2007**(IF, 5.081).
- 17) **Jiang J**, Xu Y, Chong K. 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)
- 18) Zhuang X, **Jiang JF**, Li J, Ma Q, Xu Y, Xue Y, Xu Z, Chong K. Over-expression of OsAGAP, an ARF-GAP, interferes with auxin influx, vesicle trafficking and root development. *The Plant Journal*. 48(4): 581~591, **2006**. (\*Equal first author; IF, 6.946)
- 19) **Jiang JF**, Han Y, Xing L, Xu Y, Xu Z, Chong K. Cloning and expression of a novel cDNA encoding a mannose-specific jacalin-related lectin from *Oryza sativa*. *Toxicon*. 47(1): 133~139, **2006**. (IF, 2.128).
- 20) Xu M, **Jiang JF\***, Ge L, Xu Y, Chen H, Zhao Y, Bi Y, Wen J, Chong K. *FPF1* transgene leads to altered flowering time and root development in rice. *Plant Cell Reports*. 24: 79~85, **2005**. (\*Equal first author; IF, 2.301).
- 21) Yang Wannian, Jiang Danhua, **Jiang Jiafu**, He Yuehui. A novel and plant-specific histone H3 lysine-4 demethylase required for floral repression. *Plant Journal*. 62: 663~73. **2010**
- 22) Shan Hong, Chen Sumei, **Jiang Jiafu**, Chen Fadi, Chen Yu, Gu Chunsun, Li Peiling, Song Aiping, Zhu Xirong, Gao Haishun, Zhou Guoqin, Li Ting, Yang Xue. Heterologous expression of the Chrysanthemum R2R3-MYB transcription factor *CmMYB2* enhances

drought and salinity tolerance, increases hypersensitivity to ABA and delays flowering in *Arabidopsis thaliana*. ***Molecular Biotechnology***. 51(2):160-173. **2012**