Ding Lian

Lecturer
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Research Interests

The diversity of form of the chrysanthemum flower makes this species an ideal model for studying petal morphogenesis, but as yet, the molecular mechanisms underlying petal shape and inflorescence form development remain largely unexplored. Our team focus on

(1) Screening, isolation and functional analysis of genes related to different inflorescence forms and petal shapes of chrysanthemum;

(2) The regulatory mechanism of chrysanthemum ray and disc flowers.

Education

Sep, 2010 – Dec, 2015, China Agricultural University, P. R. China
Ph. D, vegetable science
Thesis Topic/Research Focus (for masters and PhD degrees):
Functional analysis of *HANABA TARANU* in *Arabidopsis* and cucumber

Sep, 2006 – Jun, 2010, Liaoning Normal University, P. R. China
B.S, Biotechnology

Work Experience

Jun, 2016 – Mar, 2020 Nanjing Agricultural University
College of Horticulture
Nanjing Agricultural University
Nanjing, Jiangsu Province P.R.China
Postdoctor

Mar, 2020 – present Nanjing Agricultural University
College of Horticulture
Nanjing Agricultural University
Nanjing, Jiangsu Province P.R.China
Lecturer
Teaching and Research

Grants

1. Principal Investigator on the National Natural Science Foundation of China (31701959), 2018.01-2020.12
2. Principal Investigator on the Natural Science Fund of Jiangsu Province (BK20170717), 2017.7-2020.6
3. Principal Investigator on the Fundamental Research Funds for the Central Universities (KJQN201815), 2017.01-2019.12
4. Principal Investigator on the China Postdoctoral Science Foundation (2017M611843), 2017.6-2019.6
5. Principal Investigator on Postdoctoral Research Fund of Jiangsu Province (1701154B)

Publications

1. **Ding Lian[#],** Zhao Kunkun[#], Zhang Xue[#], Song Aiping, Su Jiangshuo, Hu Yueheng, Zhao Wenqian, Jiang Jiafu, Chen Fadi*. (2019) Comprehensive characterization of a floral mutant reveals the mechanism of hooked petal morphogenesis in *Chrysanthemum morifolium*. *Plant biotechnology journal* 17 (12): 2325-2340. **IF$_{5years}$ = 7.658**

2. **Ding Lian**[#], Song Aiping[#], Zhang Xue, Li Song, Su Jiangshuo, Xia Weikang, Zhao Kunkun, Zhao Wenqian, Guan Yunxiao, Fang Weimin, Chen Sumei, Jiang Jiafu, Chen Fadi[*] (2020) The core regulatory networks and hub genes regulating flower development in Chrysanthemum morifolium. *Plant Molecular Biology*. 103 (6):669-688. **IF$_{5years}$ = 4.065**

3. Zhao Kunkun[#], **Ding Lian**[#], Xia Weikang, Zhao Wenqian, Zhang Xue, Jiang Jiafu, Chen Sumei, Chen Fadi[*] (2020) Characterization of an APETALA1 and a FRUITFUL-like homolog in chrysanthemum. *Scientia Horticulturae* 272:109518. **IF$_{5years}$ = 2.844**

4. Wang Jingjing[#], Guan Yunxiao[#], **Ding Lian**, Li Peiling, Zhao Wenqian, Jiang Jiafu, Chen Sumei, Chen Fadi[*] (2019) The CmTCP20 gene regulates petal elongation growth in Chrysanthemum morifolium. *Plant Science* 280:248-257. **IF$_{5years}$ = 4.253**

5. Wang J, Wang H, **Ding L**, Song A, Shen F, Jiang J, Chen S, Chen F* (2017) Transcriptomic and hormone analyses reveal mechanisms underlying petal elongation in Chrysanthemum morifolium 'Jinba'. *Plant Molecular Biology* 93 (6):593-606. **IF$_{5years}$ = 4.065**

6. **Ding Lian**; Yan Shuangshuang; Jiang Li; Liu Meiling; Zhang Juan; Zhao Jianyu; Zhao Wensheng; Han Yingyan; Wang Qian.; Zhang Xiaolan*; HANABA TARANU regulates the shoot apical meristem and leaf development in cucumber (*Cucumis sativus L.*), *Journal of Experimental Botany*, 2015, 66: 7075-7087. **IF$_{5years}$ = 7.011**

7. **Ding Lian[#]**; Yan Shuangshuang[#]; Jiang Li[#]; Zhao Wensheng; Ning Kang; Zhao Jianyu; Liu Xiaofeng; Zhang Juan; Wang Qian; Zhang Xiaolan*; HANABA TARANU (HAN) bridges meristem and organ primordia boundaries through PINHEAD, JAGGED, BLADE-ON-PETIOLE2 and CYTOKININ OXIDASE 3 during flower development in *Arabidopsis*, *PLoS Genetics*, 2015, 11(9): e1005479. **IF$_{5years}$ = 5.857**

8. Zhao Jianyu[#]; Li Yanqiang[#]; **Ding Lian[#]**; Yan Shuangshuang; Liu Meiling; Jiang Li;

Zhao Wensheng; Wang Qian; Yan Liqiang; Liu Renyi; Zhang Xiaolan*; Phloem transcriptome signatures underpin the physiological differentiation of the pedicel, stalk and fruit of cucumber (*Cucumis sativus L.*), *Plant and Cell Physiology*, 2015, 57: 19-34. **IF_{5years} = 4.799**

研究方向：

观赏植物花发育与分子生物学

(1) 菊花不同花型及瓣型相关基因的挖掘、分离与功能分析

(2) 菊花舌状花与管状花的调控机制

教育经历：

2010-09至2016-01，中国农业大学，农学与生物技术学院（现园艺学院），博士

2006-09至2010-06，辽宁师范大学，生命科学学院生物技术系，学士

工作经历：

2016-06至今，南京农业大学，园艺学院园艺系，讲师