Guan Zhiyong

Areas of Research

Ornamental plant germplasm resources and utilization:
Chrysanthemum germplasm resources;High yield and quality control of chrysanthemum; Chrysanthemum cultivation and adversity physiology.

Contact Information

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Education Background

Bachelor： Huazhong Agricultural University
Master： Huazhong Agricultural University
Doctor： Nanjing Agricultural University

Work experience

Assistant Agronomist, Hefei Institute of Agriculture and Forestry Sciences, 1996.07–1997.06

Teaching Assistant, Lecturer, Department of Horticulture, Nanjing Agricultural University, 2000.07–2010.07

Lecturer ,Forestry College of Xinjiang Agricultural University, 2005.08–2005.12

Associate Professor, Master Supervisor, College of Horticulture, Nanjing Agricultural University, 2011.01–2017.12

Professor, PhD supervisor, College of Horticulture, Nanjing Agricultural University, 2018.01–

Honors and Awards

The second prize of National Technical Invention Award (2018, the 4th finisher)

The first prize of Jiangsu Science and Technology Award (2012, the 4th finisher)
The second prize of the Technology Invention Award of the Ministry of Education (2017, the 4th finisher)
The 3rd "Huanai Horticultural Science and Technology Award" by the Chinese

Subjects:

National Key R&D Program, 2018YFD1000402, 2018.7－2022.12, in research, sub-course leader
General Project of National Natural Science Foundation of China, 31870279, 2019.1-2022.12, in research, presided over
General Project of National Natural Science Foundation of China, 31471900, 2015.1-2018.12, completed, presided over
General Project of National Natural Science Foundation of China, 31272203, 2013.1－2016.12, completed, presided over
Public welfare industry (agriculture) research project, 201403039, 2014.1-2018.12, completed, sub-course leader
Jiangsu Province Key R&D Program, BE2017318, 2017.7－2020.6, under research, presided over
Jiangsu Province Key R&D Program, BE2019424, 2019.7 － 2022.6, in research, presided over
Jiangsu Modern Agricultural Industrial Technology System Construction Project, JATS[2019]011, in research, in charge
Fundamental Operating Fees for Central Universities, KJFP201703, 2017.1－2018.12, completed, presided over

Horticultural Society (2014, the 5th finisher)
Fellow, Royal Society (London)
Fellow, Royal Society of Canada
Canada Research Chair in Plant Evolutionary Genomics

Selected Publication

Zhiyong Guan, Yitong Feng, Aiping Song, Xiaomeng Shi, Yachao Mao, SumeiChen, Jiafu Jiang, Lian Ding, Fadi Chen*. Expression Profiling ofChrysanthemum crassum under Salinity and the Initiation of Morphological Changes. PLOS ONE.

Zhiyong Guan, Dan Wu, Aiping Song, Fadi Chen*, Sumei Chen, Weimin Fang.A highly sensitive method for the detection of Chrysanthemum virus B.Electronic Journal of Biotechnology 26 (2017).

Zhang Naiyuan, Shi Xiaomeng, Guan Zhiyong*, Zhao Shuang, Zhang Fei, Chen Sumei, Fang Weiming, Chen Fadi. Treatment with spermidine protects chrysanthemum seedlings against salinity stress damage. Plant Physiology and Biochemistry, 2016.8.01.105.

Dong Bin, Wang Haibin, Song Aiping, Liu Tao, Chen Yun, Fang Weimin, Chen Sumei, Chen Fadi, Guan Zhiyong*, Jiang Jiafu*. miRNAs Are Involved in Determining the Improved Vigor of Autotetrapoid Chrysanthemum nankingense.Frontiers in Plant Science, 2016.9.28.7.

Xiao Fu, Jiangshuo, SuKaili Yu, Yifan Cai, Fei Zhang, Sumei Chen, Weimin Fang, Chen Fadi, Zhiyong Guan*. Genetic variation and association mapping of aphid (Macrosiphoniella sanbourni) resistance in chrysanthemum(Chrysanthemum morifolium Ramat.).Euphytica, February 2018,

214:21（6）.

李媛媛，刘晔，柳丽娜，赵爽，陈素梅，房伟民，陈发棣， 管志勇*. 茶用菊苗期枯萎病抗性鉴定技术研究. 核农学报，2020，34(8) : 1666～ 1673

马婉茹，房伟民，王海滨，赵爽，张飞，陈素梅，陈发棣， 管志勇*. 多头切花菊立面装饰适宜品种筛选. 南京农业大学学报，2020， 43(3) : 438－445

付 晓，苏江硕，李媛媛，张 飞，房伟民，陈素梅，陈发棣， 管志勇*. 菊花 F1 代抗蚜性遗传变异与 QTL 定位. 园艺学报，2019，46 (7) : 1351－1358

马婉茹，房伟民，王海滨，张飞，陈素梅，陈发棣， 管志勇*. 多头切花菊品种茎、枝特性评价体系构建与品种评价. 中国农业科学，2019, 52(14) :2515-2524

栾新生，陈发棣，房伟民，史亚东，赵爽，陈素梅，张飞， 管志勇*. 不同定植期和摘心方案下 5 个品种(系)茶用菊生长和产量性状的变化. 应用生态学报，2019，30(1) : 259－265

朱德宁，韩宇，房伟民，陈发棣，陈素梅，邓波， 管志勇*. 多花型园林小菊品质评价与品种筛选. 南京农业大学学报，2018，41(2) : 266－274

吴丹，宋爱萍，史亚东，陈发棣，房伟民，陈素梅， 管志勇*. ‘滁菊’病毒脱除及脱毒苗品质分析. 南京农业大学学报，2017， 40(6) : 983－992

管志勇，王江民，陈发棣*，房伟民，陈素梅，陈春全，俞吉钰. 基于 DUS 测试性状的切花菊品种亲缘关系研究. 园艺学报， 2013，40（7）: 1399－1406

王江民，陈发棣，房伟民，陈素梅， 管志勇*，唐海艳. 基于叶形特征的切花菊品种鉴别. 植物学报，2013, 48 (6) : 608－615