

程宗明

教授、博士生导师

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研究方向:

果树（葡萄、草莓、苹果）基因组学，基因组和基因家族进化，生物和非生物响应，大数据文献分析

教育经历:

1982.1 本科，南京农业大学园艺系，1988.5 硕士，康奈尔大学，1991 博士，康奈尔大学

工作经历:

1990.11-2010.1.8 北达科他州立大学植物科学系，Assistant、Associate Professor，

2001-至今 田纳西大学植物科学系，副教授、教授，

2009.9-至今，南京农业大学园艺学院兼职教授

学术任职与服务/社会服务:

北达科他州立大学细胞分子生物学博士项目主任

美国园艺学会中国园艺工作组、能源植物工作组、生物技术工作组主席，国际园艺学家评审委员会主席等

田纳西大学教授议会（faculty Senate）“议员”

Plant Cell Tissue Organ Culture 副主编（2008-2015）农业生物技术学报编委（2009-至今）

HortScience 咨询编委（2010-2013）

Horticulture Research 创刊主编（2014-至今）

Genome 副主编（2015-至今）

Critical Review in Plant Science 顾问编委（2016-）

获奖及荣誉（最多 10 条）:

2001 年 北达科他州 Forest Educator Award

2012 年 美国园艺学会会仕

2013 年美国园艺学会国际园艺部副主席候选人

受邀评审美国农业部 NRI、ARS 项目组评审, 美国农业部、NSF 项目评审

中国 NSFC 二审专家, 973、长江学者函评

Critical Review in Plant Science 特邀主编 (两期)

Plant Cell Tissue Organ Culture 特邀主编 (一期)

主持或参与的科研项目:

主持或参与美国农业部-NRI, 能源部-CPBR, EPA-CPBR, NSF, DOE-BESC 等项目。

主要论著:

主编三期主题特刊:

- 1) Zong-Ming (Max) Cheng 2014. Stress Biology of Specialty Crops. Critical Review in Plant Sciences Issue 2/3.
- 2) Zong-Ming (Max) Cheng, Schuyler S. Korban. 2011. In vitro ploidy manipulation in the genomics era. Special Issue of PCTOC: J. of Plant Biotechnology. 104
- 3) Cheng, Z.-M. and G. A. Tuskan, guest-editors. 2009. Poplar Community Mega-genomics. Special Issues, Critical Reviews in Plant Sciences. Vol 28, issue 5.

近五年发表和被接受的 SCI 文章/论文 (以南京农业大学为第一完成单位, 通讯作者):

2016

1. Ma, Yuanchun, Robert Auge, Zong-Ming (Max) Cheng. **2016** Can overexpression of cation/proton antiporter 1 family genes increase salt tolerance? A meta-analysis. Plant Biotechnology Journal. (in press)
2. Yuan-Chun Ma, Jiao-Yang Wang, Fang Geng and Zong-Ming Cheng. Growth and Physiological Responses of *Myrica cerifera* Seedlings to Salt Stress. Sylwan Journal. In press.
3. Yingjun Li, Kaihui Huang, Yan Zhong, Zong-Ming Cheng. **2016** Genome analysis of NBS-encoding genes in kiwifruit genome (*Actinidia chinensis*). Journal of Genetics. Accepted.
4. Jinyi Liu, Nana Chen, Zong-Ming (Max) Cheng, Jinsong Xiong. **2016**. Genome-wide identification, annotation and expression profile analysis of *SnRK2* gene family in grapevine. Australian J. Grape Wine Res. Accepted.
5. Zhang, L.S., Fei Chen, Guo-Qiang Zhang, Yong-Qiang Zhang, Shance Niu, Jin-Song Xiong, Zhenguo Lin, Zong-Ming (Max) Cheng*, Zhong-Jian Liu*. 2016. Origin and mechanism of crassulacean acid metabolism in orchids as implied by comparative transcriptomics and genomics of the carbon fixation pathway. Plant Journal. DOI: 10.1111/tpj.13159. (共同通讯)

2015

6. Yan Zhong, Yingjun Li, Kaihui Huang, Zong-Ming Cheng. 2015. Species-specific duplications of NBS-encoding genes in Chinese chestnut (*Castanea mollissima*). *Scientific Rep.* 5:16638 DOI: 10.1038/srep16638.
7. Ling Guan, A. Murphy, W.A. Peer, L.J. Gan, y. Li, Z.-M. (Max) Cheng. 2015. Physiological and Molecular Regulation of Adventitious Root Formation. *Critical Reviews in Plant Sciences.* 34:506-521.
8. Yuanchun Ma, Jiaoyang Wang, Yan Zhong, Fang Geng, Grant R Cramer & Zong-Ming (Max) Cheng. 2015. Subfunctionalization of cation/proton antiporter 1 genes in grapevine in response to salt stress in different organs. *Horticulture Research* 2, doi:10.1038/hortres.2015.31
9. Wang Min, Alessandro Vannozzi, Gang Wang, Yan Zhong, Erika Cavallini, Massimiliano Corso, Zong-Ming (Max) Cheng. 2014. A comprehensive survey of the grapevine VQ domain-containing gene family and its transcriptional correlation with WRKY TFs. *Frontiers in Plant Sciences.* <http://dx.doi.org/10.3389/fpls.2015.00417>
10. Zhong, Yan, Huan Yin, Daniel J Sargent, Mickael Malnoy and Zong-Ming (Max) Cheng. 2015. Unique evolutionary pattern of NBS-LRR genes among five Rosaceae species. *BMC Genomics* 16:77 doi:10.1186/s12864-015-1291-0
11. Liu, Jinyi, Nana Chen, Joshua N. Grant, Zong-Ming (Max) Cheng, C. Neal Stewart Jr, and Tarek Hewezi. 2015. Soybean kinome: functional classification and gene expression patterns. *J. Exp. Bot.* doi:10.1093/jxb/eru537.

2014

12. Wang, Gang, Arianna Lovato, Annalisa Polverari, Min Wang, Ying-Hai Liang, Yuan-Chun Ma, Zong-Ming Cheng. **2014**. Genome-wide identification and analysis of mitogen activated protein kinase kinase gene family in grapevine (*Vitis vinifera*). *BMC Plant Biology.* 14(1):219. DOI: 10.1186/s12870-014-0219-1.
13. Wang, Xiaolong, Yan Zhong¹, Zong-Ming (Max) Cheng. **2014**. Evolution and expression analysis of the CCCH zinc finger gene family in *Vitis vinifera*. *Plant Genome* doi:10.3835/plantgenome2014.05.0019
14. Ying-Hai Liang, Bin Cai, Fei Chen, Gang Wang, Min Wang, Yan Zhong & Zong-Ming (Max) Cheng **2014**. Construction and validation of a gene co-expression network in grapevine (*Vitis vinifera* L.). *Horticulture Research* 1, doi:10.1038/hortres.2014.40
15. Chen, Y. X., F. Chen, H. Hu, L. Yang, L. Yue, R. N. Trigiano, and Z. Cheng. **2014**. Micropropagation of *Agave americana*. *HortScience*, 49(3):1–8. 2014.
16. Min Wang, A. Vannozzi, G. Wang, Ying-Hai Liang, G. B. Tornielli, Zenoni, Erika Cavallini, Mario Pezzotti and Z.-M. (Max) Cheng. **2014**. Genome and transcriptome analysis of the grapevine (*Vitis vinifera* L.) WRKY gene family. *Horticulture Research.* 1, 16; doi:10.1038/hortres.2014.16
17. Jinyi Liu, Nana Chen, Fei Chen, Bin Cai, Silvia Dal Santo, Giovanni Battista Tornielli, Mario Pezzotti, and Zong-Ming (Max) Cheng **2014**. Genome-wide analysis and expression profile of the bZIP transcription factor gene family in grapevine (*Vitis vinifera*). *BMC Genomics* 2014, 15:281
18. Cheng, Z.M **2014**. *Stress Biology of Specialty Crops.* *Crit Rev Plant Sci.* 3:90–91
19. Feng, G., Y. Li, and Z. M. Cheng. **2014**. Plant Molecular and Genomic Responses to Stresses in Projected Future CO₂ Environment. *Crit Rev Plant Sci.* 33:2-3, 238-249, DOI: 10.1080/07352689.2014.870421
20. Gang Wang, Arianna Lovato, Ying-Hai Liang, Min Wang, Giovanni Battista Tornielli, Annalisa Polverari, Mario Pezzotti, Zong-Ming (Max) Cheng. **2014**. Genome-wide manual annotation, verification by isolation and expression analyses of MAPK gene family in grapevine (*Vitis vinifera*). *Australian J. Grape Wine Res.* 20, 255–262.

21. Cheng, Z.M. **2014**. Inaugural editorial. Horticulture Research 1, 5.
doi:10.1038/hortres.2014.5.

2013-2011

22. Chen F, Fasoli M, Tornielli GB, Dal Santo S, Pezzotti M, et al. **2013**. The Evolutionary History and Diverse Physiological Roles of the Grapevine Calcium-Dependent Protein Kinase Gene Family. PLoS ONE 8(12): e80818.
doi:10.1371/journal.pone.0080818
23. Ying Li, Herbert. S. Aldwinckle, Turner Sutton, Takashi Tsuge, Guodong Kang, Pei-Hua Cong and Zong-Ming (Max) Cheng. **2013**. Interactions of Apple and the *Alternaria alternata* Apple Pathotype. Critical Reviews in Plant Sciences 32 (3):141-150.
24. Cai, B., Xiaohan Yang, Gerald A. Tuskan and Zong-Ming Cheng. **2011**. MicroSyn: A user friendly tool for detection of microsynteny in a gene family. BMC Bioinformatics. 12:79.
25. Li, Ying, Liyi Zhang, Zhen Zhang, Peihua Cong, Zong-ming Cheng. **2011**. A simple sequence repeat marker linked to the susceptibility of apple to alternaria blotch caused by *Alternaria alternata* apple pathotype. J. Amer. Soc. Hort. Sci. 136: 109-115.

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