

CURRICULUM VITAE

Personal Information			
Name	Liu Yong-Zhong	Gender	Male
Position Title	Professor		
Working Department	College of Horticulture & Forestry Sciences		
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Research Interest			
1) Mechanism for the regulation of fruit mastication, citrate and sugar accumulation in (citrus) fruits. 2) Research to improve fruit quality from practice level. 3) To develop labor-saving, safe and profitable planting model for citriculture. 4) To develop cultural practices for citrus healthy production in Huanglongbing (citrus greening)-infected region.			
Education & Working Experience			
Education:			
2002 – 2006	Ph.D.	Huazhong Agricultural University, Fruit Science, Wuhan, China	
1996 – 1999	M.S.	Southwest Agricultural University, Fruit Science, Chongqing, China	
1996 – 1999	B.A.	Southwest Agricultural University, Fruit Science, Chongqing, China	
Working Experience:			
2016 – present	Professor,	Huazhong Agricultural University	
2009 – 2010	Postdoctoral research in	Agricultural Research Organization (Volcani Center), Israel	
2007 – 2015	Associate professor,	Huazhong Agricultural University	
2002 – 2006	Lecturer,	Huazhong Agricultural University	
Publications			



- Long- Fei Jin, Da- Yong Guo, Dong- yuan Ning, Syed Bilal Hussain, **Yong- Zhong Liu***. Covering the trees of Kinokuni tangerine with plastic film during fruit ripening improves sweetness and alters the metabolism of cell wall components. *Acta Physiologiae Plantarum* (2018) 40:182.doi.org/10.1007/s11738-018-2761-1
- Shi C-Y, Hussain SB, Guo L-X, Yang H, Ning D-Y, **Liu Y-Z*** (2018) Genome-wide identification and transcript analysis of vacuolar-ATPase genes in citrus reveal their possible involvement in citrate accumulation. *Phytochemistry* 155:147-154.
- Syed Bilal Hussain, Cai-Yun Shi, Lin-Xia Guo, Hafiz Muhammad Kamran, Avi Sadka & **Yong-Zhong Liu***. Recent Advances in the Regulation of Citric Acid Metabolism in Citrus Fruit. *Critical Reviews in Plant Sciences*, 2017,36 (4): 241-256.
- Xiao Liu, Jia-Wei Zhang, Ling-Xia Guo, **Yong-Zhong Liu***, Long-Fei Jin, Syed Bilal Hussain, Wei Du, Zhao Deng and Shu-Ang Peng*. Transcriptome Changes Associated with Boron Deficiency in Leaves of Two Citrus Scion-Rootstock Combinations. *Front. Plant Sci.* 8:317. doi: 10.3389/fpls.2017.00317
- Long-Fei Jin, **Yong-Zhong Liu***, Wei Du, Li-Na Fu, Syed Bilal Hussain, Shu-Ang Peng*. Physiological and transcriptional analysis reveals pathways involved in iron deficiency chlorosis in fragrant citrus. *Tree Genetics & Genomes* (2017) 13: 51. doi:10.1007/s11295-017-1136-x
- Guo, LX, Shi CY, Liu X, Ning DY, Jin LF, Yang H, **Liu YZ***. Citrate Accumulation-Related Gene Expression and/or Enzyme Activity Analysis Combined With Metabolomics Provide a Novel Insight for an Orange Mutant. *Sci. Rep.* 2016, 6, 29343; doi: 10.1038/srep29343.
- Xiao Liu, Long-Fei Jin, Ling-xia Guo, Yong-Zhong Liu*, Tao Liu, Yu-Hua Fan, Shu-Ang Peng. Identification and transcript profiles of citrus growth-regulating factor genes involved in the regulation of leaf and fruit development. *Molecular Biology Reports*. (2016) 43: 1059-1067. doi: 10.1007/s11033-016-4048-1
- Long-Fei Jin, **Yong-Zhong Liu***, Xin-Xing Yin, Shu-Ang Peng*. Transcript analysis of citrus miRNA397 and its target LAC7 reveals a possible role in response to boron toxicity. *Acta Physiologiae Plantarum*, 2016, 38:18. Doi. 10.1007/s11738-015-2035-0.
- Xiao-Mei Hu, Cai-Yun Shi, Xiao Liu, Long-Fei Jin, **Yong-Zhong Liu***, Shu-Ang Peng. Genome-wide identification of citrus ATP-citrate lyase genes and their transcript analysis in fruits reveals their possible role in citrate utilization. *Molecular Genetics and Genomics*, 2015,290:29-38.
- Shi CY, Song RQ, Hu XM, Liu X, Jin LF and **Liu YZ***. Citrus PH5-like H⁺-ATPase genes: identification and transcript analysis to investigate their possible relationship with citrate accumulation in fruits. *Front. Plant Sci.* 2015, 6: 135.
- Mohammad Zahidul Islam, Long-Fei Jin, Cai-Yun Shi, **Yong-Zhong Liu***, Shu-Ang Peng. Citrus sucrose transporter genes: genome-wide identification and transcript analysis in ripening and ABA-injected fruits. *Tree Genetics & Genomes*, 2015,11(5):97.
- Ni Jiang, Long-Fei Jin, Jaime A. Teixeira da Silva, MD Zahidul Islam, Hai-Wen Gao, **Yong-Zhong Liu***, and Shu-Ang Peng. Activities of enzymes directly related with sucrose and citric acid metabolism in citrus fruit in response to soil plastic film mulch. *Scientia Horticulturae* 2014, 168: 73-80.
- Liu X, Hu X-M, Jin L-F, Shi C-Y, **Liu Y-Z***, Peng S-A (2014) Identification and transcript analysis of two glutamate decarboxylase genes, CsGAD1 and CsGAD2, reveal the strong relationship between CsGAD1

and citrate utilization in citrus fruit. *Mol Biol Rep*,41:6253-6262

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X-Y Yang, F-F Wang, Jaime A. Teixeira da Silva, J Zhong, **Y-Z Liu*** and S-A Peng. Branch Girdling at Fruit Green Mature Stage Affects Fruit Ascorbic Acid Contents and Expression of Genes Involved in L-Galactose Pathway(27-Sep-2012). *New Zealand Journal of Crop & Horticultural Science*,2013,41(1):23-31.

Cheng-Quan Yang, **Yong-Zhong Liu**, Ji-Cui An, Shuang Li, Long-Fei Jin, Gao-Feng Zhou, Qing-Jiang Wei, Hui-Qing Yan, Nan-Nan Wang, Li-Na Fu, Xiao Liu, Xiao-Mei Hu, Ting-Shuai Yan, Shu-Ang Peng. Digital Gene Expression Analysis of Corky Split Vein Caused by Boron Deficiency in 'Newhall' Navel Orange (*Citrus sinensis* Osbeck) for Selecting Differentially Expressed Genes Related to Vascular Hypertrophy. *Plos One* 2013,8(6),e65737

Ying Lei, **Yong-Zhong Liu***, Qing-Qing Gu, Xiao-Yan Yang, Xiu-Xin Deng, Jin-Yin Chen. Comparison of cell wall metabolism in the pulp of three cultivars of 'Nanfeng' tangerine differing in mastication trait. *Journal of the Science of Food and Agriculture* 2012, 92: 496–502

Yong-Zhong Liu, Tao Dong, Ying Lei, Xiu-Xin Deng, Qing-Qing Gu. Isolation of a polygalacturonase gene from *Citrus sinensis* fruit and its expression relative to fruit mastication trait, fruit development, and calcium or boron treatments. *Plant Molecular Biology Reporter*,2011,29:51–59

Xiao-Yan Yang, Jin-Xia Xie, Xiao-Peng Lu, **Yong-Zhong Liu***, Shu-Ang Peng. Isolation of a citrus ethylene-responsive element binding factor gene and its expression in response to abiotic stress, girdling and shading. *Scientia Horticulturae*, 2011, 127: 275–281

Sorkina A, Bardosh G, **Liu YZ**, Fridman I, Schlizerman L, Zur N, Or E, Goldschmidt EE, Blumwald E and Sadka A. Isolation of a citrus promoter specific for reproductive organs and its functional analysis in isolated juice sacs and tomato. *Plant Cell Reports*. 2011, 30:1627–1640

Xiao-Yan Yang, Jin-Xia Xie, Fang-Fang Wang, Jing Zhong, **Yong-Zhong Liu***, Guo-Huai Li, Shu-Ang Peng. Comparison of ascorbate metabolism in fruits of two citrus species with obvious difference in ascorbate content in pulp. *Journal of Plant Physiology*, 2011,168:2196-2205

Ying Lei, **Yong-Zhong Liu***, Wen-Fang Zeng, Xiu-Xin Deng. Physicochemical and molecular analysis of cell wall metabolism between two navel oranges (*Citrus sinensis*) with different mastication trait. *Journal of the Science of Food and Agriculture* 2010, 90(9): 1479-1484.