

# Lingrui Zhang

## Job Title:

Post-doctoral Research Assistant

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## a) Professional Preparation

|                                  |                  |             |           |
|----------------------------------|------------------|-------------|-----------|
| Henan University                 | Henan, China     | B.S.        | 1999-2003 |
| South China Normal University    | Guangdong, China | Ph.D.       | 2004-2009 |
| Agriculture and Agri-Food Canada | Lodon, Canada    | Post-doctor | 2011-2016 |

## b) Appointments

2016- Post-doctoral Research Assistant, Purdue University, West Lafayette

2009-2012 Assistant Professor, College of Biophotonics, SCNU, Guangzhou, China

## c) Publications (Total citations: 732, h-index: 15)

1. C.Z. Zhao, O. Zayed, Z.P. Yu, W. Jiang, P.P. Zhu, C. Hsu, L.R. Zhang, W.A. Tao, R. Lozano-Durán, J.K. Zhu. 2018.  
Leucine-rich repeat extension proteins regulate plant salt tolerance in Arabidopsis.  
*PNAS*, 115:13123–28
2. C.G. Duan, X.G. Wang, L.R. Zhang, X.S. Xiong, Z.J. Zhang, K. Tang, L. Pan, C.C. Hsu, H.W. Xu, W. A. Tao, H. Zhang, J.K. Zhu. 2017.  
A protein complex regulates RNA processing of intronic heterochromatin-containing genes in Arabidopsis  
*PNAS*, 114 (35) E7377-E7384
3. L.R. Zhang, C.W. Zhang, A.M. Wang. 2016.  
The divergence and conservation of the major UPR branch IRE1-*bZIP* signalling pathway across eukaryotes.  
*Sci. Rep.*, 6, 27362; doi: 10.1038/srep27362
4. L.R. Zhang, H. Chen, F. Brandizzi, J. Verchot, A.M. Wang. 2015.  
The UPR branch IRE1-*bZIP60* in plants plays an essential role in viral infection and is complementary to the only UPR pathway in yeast.  
*PLoS Genet.*, 11(4): e1005164.
5. M. Zhang, M.W. Zhang, L.L. Zhang, L.R. Zhang\*. 2015.  
Methyl jasmonate and its potential in cancer therapy.  
*Plant Signaling & Behavior*, 10:9, e1062199.
6. H. Chen, L.R. Zhang, K. Yu, A.M. Wang. 2015.  
Pathogenesis of *Soybean mosaic virus* in soybean carrying *Rsv1* gene is associated with miRNA and siRNA pathways, and breakdown of AGO1 homeostasis.  
*Virology*, 476: 395-404.
7. Y.H. Wang, L.R. Zhang, L.L. Zhang, T. Xing, J.Z. Peng, S.S. Sun, G. Chen, X.J. Wang. 2013.  
A novel stress-associated protein SbSAP14 from *Sorghum bicolor* confers tolerance to salt stress in transgenic rice.  
*Mol. Breeding*, 32: 437-449.
8. L.R. Zhang, A.M. Wang. 2012.  
Virus-induced ER stress and the unfolded protein response.  
*Front. Plant Sci.*, 3:293. DOI: 10.3389/fpls.2012.00293.
9. L.L. Zhang, L.F. Li, J. Wu, J.Z. Peng, L.R. Zhang, X.J. Wang. 2012.  
Cell expansion and microtubule behavior in ray floret petals of *Gerbera hybrida*: Responses to light and gibberellic acid.  
*Photochem. Photobiol. Sci.*, 11, 279-288 (Cover Story).

10. L.R. Zhang†, Q. Xu†, D. Xing, C.J. Gao, H.W. Xiong. 2009.  
Real-time detection of caspase-3-like protease activation *in vivo* using fluorescence resonance energy transfer during plant programmed cell death induced by ultraviolet C overexposure. *Plant Physiol.*, 150, 1773-1783. (†equal contribution)
11. L.R. Zhang†, Y.S. Li†, D. Xing, C.J. Gao. 2009.  
Characterization of mitochondrial dynamics and subcellular localization of ROS reveal that HsfA2 alleviates oxidative damage caused by heat stress in *Arabidopsis*. *J. Exp. Bot.*, 60(7), 2073-2091. (†equal contribution)
12. L.R. Zhang, D. Xing. 2008.  
Methyl jasmonate induces production of reactive oxygen species and alterations in mitochondrial dynamics that precede photosynthetic dysfunction and subsequent cell death. *Plant Cell Physiol.*, 49(7), 1092-1111. (One of 50 Most Frequently Read Articles)
13. L.R. Zhang, D. Xing. 2008.  
Rapid determination of the damage to photosynthesis caused by salt and osmotic stresses using delayed fluorescence of chloroplasts. *Photochem. Photobiol. Sci.*, 7, 352-360.

**d) Synergistic Activities**

Member of American Society for Virology (2013-2014)  
 Member of Biophysical Society of Guangdong Province (2009-2010)  
 Member of Biophysical Society of China (2009-2010)  
 Reviewer of the National Natural Science Foundation of China  
 Peer Review for New Phytologist  
 Peer Review for Apoptosis  
 Peer Review for Plant Cell Reports  
 Peer Review for Physiologia Planetarium  
 Peer Review for Plant Science

**e) Book chapter**

L.R. Zhang, A.M. Wang. 2016. "ER Stress, UPR and Virus Infections in Plants"  
 A.M. Wang, X.P. Zhou (eds.)-*Current Research Topics in Plant Virology*, Springer, Chapter 7, in press.

**f) Patents**

D. Xing and L.R. Zhang  
 A method for monitoring plant senescence and for screening anti-aging plants (ZL 200610036418.3)  
 D. Xing and L.R. Zhang  
 A method for monitoring regulation of plant growth and development (ZL 200510120908.7)  
 D. Xing and L.R. Zhang  
 A method for monitoring plant stress and for screening high-resistant plants (ZL 200710028925.7)  
 D. Xing, X.J. Liu and L.R. Zhang  
 A method for detecting seed vigor (ZL 200710028925.7)  
 D. Xing and L.R. Zhang  
 A method for evaluating energy utilizing efficiency of crops (ZL 200710027583.7)

**g) Awards**

2013 The American Society for Virology Travel Grant, 2013  
 2011 Nomination for National 100 Excellent Doctoral Dissertation in China (a total of 269)  
 2010 Excellent Doctoral Dissertation of Guangdong Province (a total of 29)  
 2010 Second-class Prize in Science and Technology Awards of Guangdong Province (ranked 4th)  
 2009 Excellent Academic Paper Award in the 10th National Conference on Laser Biology  
 2009 First-class Prize in Guangdong Province Science and Technology Works Contest  
 2009 The Advanced Individual in Science and Technology Innovation Activities of SCNU  
 2008 Excellent Doctoral Thesis of South China Normal University