

Curriculum Vitae

Jianxin Shi, Ph. D, Associate Professor

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Personal Information

Gender: Male Birth Place: jiangsu Marital: Married
Birth Date: 1966.09

Research Interests

- Regulatory mechanisms underlying plant cuticle metabolism and its effects on plant development and stress response
- Development and application of methods for molecular characterization of genetically modified and genome edited crops
- Molecular mechanisms behind seed development and quality formation

Education

2001.12-2007.01 Ph. D The Hebrew University of Jerusalem, Israel
1988.09-1991.06 M Sci Southwest University, China
1984.09-1988.06 B Sci Shanxi Agricultural University, China

Overseas Research Experience

2013.01-2013.02 **Visiting Scientist** Max Planck Institute for Molecular Plant Physiology, Germany Plant hormone detection using GC-MS
2012.06-2012.07 **Visiting Scientist** Department of Plant Biology, University of Strasbourg, France In vitro enzyme activity assay of plant CYP450s
2008.09-2008.10/2011.02-2011.03 **Visiting Scholar** Department of Plant Ecology, University of Bonn, Germany GC-MS determination of plant waxes, cutin and suberin
2007.01-2010.09 **Postdoctoral fellow** Department of Plant Sciences, Weizmann Institute of Science, Israel Transcriptional regulation of the cuticle biosynthesis in plants
2001.12-2007.01 **Ph. D** Faculty of Agricultural, Environmental and Food Science, the Hebrew University of Jerusalem, Israel Physiological and molecular responses of citrus fruit to anaerobic stress
2000.10-2001.06 **Visiting Scholar** Faculty of Agricultural, Environmental and Food Science, the Hebrew University of Jerusalem, Israel

Controlling ethylene responses in horticultural crops with 1-MCP and its analogues

Domestic Research Experience

- 2012.02-current **Associate Professor** School of Life Sciences and Biotechnology, Shanghai Jiao Tong University
- 1991.06-2011.08 **Research Assistant, Assistant Researcher Fellow, associated Researcher Fellow** Postharvest Physiology Laboratory, Institute of Storage of Farm Products, Shanxi Academy of Agricultural Sciences (SAAS)
- 1995.05-2001.12 **Director**, Postharvest Physiology Laboratory

Honors and Awards

- 2018, Environmental safety evaluation and detection technology of genetically modified canola, the 1st Prize of Science and Technology, China Federation of Commerce (3/12)
- 2013, Rapid detection method of genetically modified products based on gene technology, the 2nd Prize of Science and Technology, China Association for Analysis and Testing (8/10)
- 2012, The detection methods of endogenous reference genes and their standardization for genetically modified products of rice, corn and canola, the 1st Prize of Science and Technology, Shanghai Municipal Government (11/12)
- 2002, 2004, 2005, Scholarship, Israel-China Friendship Association
- 1997, Insulated and Ventilated Container for Fruit Transportation, the 3rd Prize of Science and Technology, Shanxi Municipal Government (3/5)
- 1996, Outstanding CPC Member, SAAS
- 1993, Excellent Staff, SAAS

Publications in English (#Co-First author, *Correspondence)

2019

1. Zafar SA, Patil SB, Uzair M, Fang J, Zhao J, Guo T, Yuan S, Uzair M, Luo Q, **Shi J**, Schreiber L, Li X. Degenerated panicle and partial sterility 1 (DPS1) encodes a CBS domain containing protein required for anther cuticle and panicle development in rice. *New Phytologist*, (2019), doi:10.1111/nph.16133
2. Xu D, Qu S, Tucker MR, Zhang D, Liang W, **Shi J***. OsTKPR1 functions in anther cuticle development and pollen wall formation in rice. *BMC Plant Biology*, 2019 19:104.
3. Duan S, Wu Y, Fu R, Wang L, Chen Y, Xu W, Zhang C, Ma C, **Shi J***, Wang S*. Comparative metabolic profiling of grape skin tissue along grapevine berry developmental stages reveals systematic influences of root restriction on skin metabolome. *International Journal of Molecular Science*, 2019, 20, 534: doi:10.3390/ijms20030534
4. Hu C#, Zhao H#, **Shi J**, Li J, Nie X, Yang G. Effects of 2,4-dichlorophenoxyacetic acid on cucumber fruit development and metabolism. *International Journal of Molecular Science*, 2019, 20, 1126; doi:10.3390/ijms20051126.
5. Biswas S, Li R, Yuan Z, Zhang D, Zhao X*, **Shi J***. Development of methods for

- effective identification of CRISPR/Cas9-induced indels in rice. *Plant Cell Reports*, 2019, 38(4): 503-510. <https://doi.org/10.1007/s00299-019-02392-3>.
- Li R, **Shi J**, Liu B, Wang C, Zhang D, Zhao X, Yang L. Inter-laboratory validation of visual loop-mediated isothermal amplification assays for GM contents screening. *Food Chemistry*, 2019, 274: 659–663.
 - Zhao G, Zhang Y, Sun S, Xie M, Hu C, Shi Y, **Shi J**, Li J. Identification of the biochemical characteristics of developing giant embryo rice grains using non-targeted metabolomics. *Journal of Cereal Science*, 2019, 85: 70–76.
 - Chen X[#], Shi L[#], Chen Y, Zhu L, Zhang D, Xiao S, Aharoni A, **Shi J***, Xu J*. Arabidopsis HSP70-16 is required for flower opening under normal or mild heat stress temperatures. *Plant Cell and Environment*, 2019; 42:1190–1204. <https://doi.org/10.1111/pce.13480>
 - Siddique K, Wei J, Li R, Zhang D, **Shi J***. Identification of T-DNA insertion site and flanking sequence of a genetically modified maize event IE09S034 using next-generation sequencing technology. *Molecular Biotechnology*, 2019, <https://doi.org/10.1007/s12033-019-00196-0>.

2018

- Bi H, **Shi J**, Kovalchuk N, Luang S, Bazanova N, Chirkova L, Zhang D, Shavrukov Y, Stepanenko A, Tricker P, Langridge P, Hrmova M, Lopato S, Borisjuk N. Overexpression of the TaSHN1 transcription factor in bread wheat leads to leaf surface modifications, improved drought tolerance and no yield penalty under controlled growth conditions. *Plant Cell and Environ*, 2018, 41: 2549–2566.
- Borisjuk N*, Peterson AA, Lv J, Qu G, Luo Q, Shi L, Chen G, Kishchenko O, Zhou Y and **Shi J***. Structural and biochemical properties of duckweed surface cuticle. *Frontiers in Chemistry*, 2018, 6:317. doi: 10.3389/fchem.2018.00317.
- Li R, **Shi J**, Liu B, Zhang D, Zhao X, Yang L*. International collaborative ring trial of four gene-specific loop-mediated isothermal amplification assays in GMO analysis. *Food Control*, 2018, 84: 278-283.
- Hu C, Zhao H, Wang W, Xu M, **Shi J**, Nie X, Yang G*. Identification of conserved and diverse metabolic shift of the stylar, intermediate and peduncular segments of cucumber fruit during development. *International Journal of Molecular Sciences*, 2018. 19(1): 135.
- Wang W[#], Mauleon R[#], Hu Z[#], Chebotarov D[#], Tai S[#], Wu Z[#], Li M[#], Zheng T[#], Fuentes RR[#], Zhang F[#], Mansueto L[#], Copetti D[#], Sanciangco M, Palis KC, Xu J, Sun C, Fu B, Zhang H, Gao Y, Zhao X, Shen F, Cui X, Yu H, Li Z, Chen M, Detras J, Zhou Y, Zhang X, Zhao Y, Kudrna D, Wang C, Li R, Jia B, Lu J, He X, Dong Z, Xu J, Li Y, Wang M, **Shi J**, Li J, Zhang D, Lee S, Hu W, Poliakov1 A, Dubchak I, Ulat VJ, Borja FN, Mendoza RJ, Ali J, Li Jing, Gao Q, Niu Y, Yue Z, Naredo MEB, Talag J, Wang X, Li J, Fang X, Yin Y, Glaszmann JC, Zhang J, Li J, Hamilton RS, Wing RA*, Ruan J*, Zhang G*, Wei C*, Alexandrov N*, McNally KL*, Li Z*, Leung H. Genomic variation in 3,010 diverse accessions of Asian cultivated rice. *Nature*, 2018, 557: 43-49.
- Arulandhu AJ, van Dijkstra J, Staats M, Hagelaar R, Voorhuijzen M, Molenaar B, van Hoof R, Li R, Yang L, **Shi J**, Scholtens I, Kok E. NGS-based amplicon sequencing

approach; towards a new era in GMO screening and detection. *Food Control*, 2018, 93: 201–210.

7. Hu Z, Wang W, Wu Z, Sun Chen, Li M, Lu J, Fu B, **Shi J**, Xu J, Ruan J, Wei C, Li Z. Data Descriptor: Novel sequences, structural variations and gene presence variations of Asian cultivated rice. *Scientific Data*, 2018, 5:180079
8. Kim Y, Joo S, **Shi J**, Hu C, Quan S, Hu J, Sukweenadhi J, Mohanan P, Yang D, Zhang D. Metabolic dynamics and physiological adaptation of Panax ginseng during development. *Plant Cell Reports*, 2018, 7:393–410

2017

1. Liu H[#], Cui B[#], Xu Y, Hu C, Liu Y, Qu G, Li D, Wu Y, Zhang D, Quan S*, **Shi J***. Ethyl carbamate induces cell death through its effects on multiple metabolic pathways. *Chemico-Biological Interactions*, 2017, 277: 21-32.
2. Zhu X, Yu J, **Shi J**, Tohge T, Fernie AR, Meir S, Aharoni A, Xu D, Zhang D, Liang W. The polyketide synthase OsPKS2 is essential for pollen exine and Ubisch body patterning in rice. *Journal of Integrative Plant Biology*, 2017, 59 (9): 612–628.
3. Liu, Ze, Lin S, **Shi J**, Yu J, Zhu L, Yang X, Zhang D, Liang W*. Rice No Pollen 1 (NP1) is required for anther cuticle formation and pollen exine patterning. *The Plant Journal*, 2017, 91(2):263-277.
4. Yang X, Liang W, Chen M, Zhang D, Zhao X, **Shi J***. Rice fatty acyl-CoA synthetase OsACOS12 is required for tapetum programmed cell death and male fertility. *Planta*, 2017, 246:105–122.
5. Xu D, **Shi J**, Rautengarten C, Yang L, Qian X, Uzair M, Zhu L, Luo Q, An G, Wabmann F, Schreiber L, Hu j, Zhang D, Liang W. Defective Pollen Wall 2 (DPW2) encodes an acyl transferase required for rice pollen development. *Plant Physiology*, 2017, 173(1): 240-255.
6. Hu Z, Sun C, Lu KC, Chu X, Zhao Y, Lu J, **Shi J***, Wei C*. EUPAN enables pan-genome studies of a large number of eukaryotic genomes. *Bioinformatics*, 2017, 33(15):2408-2409.
7. Li R[#], Quan S[#], Yan X, Biswas S, Zhang D, **Shi J***. Molecular characterization of genetically-modified crops: Challenges and strategies. *Biotechnology Advance*, 2017, 35(2):302-309.
8. Men X, **Shi J**, Liang Wan, Zhang Q, Lian G, Quan S, Zhu L, Luo Z, Chen M, Zhang D*. Glycerol-3-Phosphate Acyltransferase 3 (OsGPAT3) is required for anther development and male fertility in rice. *Journal of Experimental Botany*, 2017, 68(3):513-526.
9. Sun C, Hu Z, Zheng T, Lu K, Zhao Y, Wang W, **Shi J**, Wang C, Lu J, Zhang D, Li Z, Wei C*. RPAN: rice pan-genome browser for ~3000 rice genomes. *Nucleic Acids Research*, 2017, 45(2):597-605.
10. Bao S, **Shi J**, Luo F, Ding B, Hao J, Xie X, Sun SJ*. Overexpression of Sorghum WINL1 gene confers drought tolerance in Arabidopsis thaliana through the regulation of cuticular biosynthesis. *Plant Cell, Tissue and Organ Culture*, 2017, 128(2), 347-356
11. Ye Z, Xu J, **Shi J**, Zhang D, Chye M. Kelch-motif containing acyl-CoA binding proteins AtACBP4 and AtACBP5 are differentially expressed and function in floral lipid metabolism. *Plant Molecular Biology*, 2017, 93(1-2):209-225.

12. Sekse C, Holst-Jensen A, Dobrindt U, Johannessen GS, Li W, Spilsberg B, **Shi J**. High throughput sequencing for detection of foodborne pathogens. *Frontiers in Microbiology*, 2017, 8: 2029.

2016

1. Hu C[#], Li Q[#], Shen X, Quan S, Lin H, Duan L, Wang Y, Luo Q, Qu G, Han Q, Lu Y, Zhang D, Yuan Z* and **Shi J***. Characterization of factors underlying the metabolic shifts in developing kernels of colored maize. *Scientific Reports*, 2016, 6:35479.
2. Biswas S[#], Fan W[#], Li R, Li S, Ping W, Li S, Naumova A, Peelen T, Kok E, Yuan Z, Zhang D, **Shi J***. The development of DNA based methods for the reliable and efficient identification of *Nicotiana tabacum* in tobacco and its derived products. *International Journal of Analytical Chemistry*, 2016, Article ID 4352308.
3. Chen M, Xu J, Devis DL, **Shi J**, Ren K, Searle I, Zhang D*. Origin and functional prediction of pollen allergens in plants. *Plant Physiology*, 2016, 172(1): 341-357.
4. Arulandhu AJ, van Dijk JP, Dobnik D, Holst-Jensen A, **Shi J**, Zel J, Kok EJ*. DNA enrichment approaches to identify unauthorized genetically modified organisms (GMOs). *Analytical and Bioanalytical Chemistry*, 2016, 408(17):4575-4593.
5. Holst-Jensen A*, Spilsberg B, Arulandhu AJ, Kok E, **Shi J**, Zel J (2016). Application of whole genome shotgun sequencing for detection and characterization of genetically modified organisms and derived products. *Analytical and Bioanalytical Chemistry*, 2016, 408(17): 4595-4614.
6. Hong J, Yang L, Zhang D, **Shi J***. Plant metabolomics: an indispensable system biology tool for plant science. *International Journal of Molecular Science*, 2016, 17(6), 767.
7. Hu C, Tohge T, Chan SA, Song Y, Rao J, Cui B, Lin H, Wang L, Fernie AR, Zhang D, **Shi J***. Identification of conserved and diverse metabolic shifts during rice grain development. *Scientific Reports*, 2016, 6: 20942.
8. Kim YJ, Silva J, Zhang D, **Shi J**, Joo SC, Jang MG, Kwon WS, Yan DC*. Development of interspecies hybrids to increase ginseng biomass and ginsenoside yield. *Plant Cell Report*, 2016, 35(4):779-790.
9. Liu Y[#], Ran R[#], Hu C, Cui B, Xu Y, Liu H, Quan S, Li D, Li X, Wu Y, Zhang D, **Shi J***. The metabolic responses of HepG2 cells to the exposure of mycotoxin deoxynivalenol. *World Mycotoxin Journal*, 2016, 9(4): 577-586.
10. Rao J, Yang L, Guo J, Quan S, Chen G, Zhao X, Zhang D, **Shi J***. Metabolic changes in transgenic maize mature seeds over-expressing the *Aspergillus niger* phyA2. *Plant Cell Report*, 2016, 35(2), 429-437.
11. Rao J, Yang L, Guo J, Quan S, Chen G, Zhao X, Zhang D. **Shi J***. Development of event-specific qualitative and quantitative PCR detection methods for the transgenic maize BVLA430101. *European Food Research and Technology*, 2016, 242(8), 1277-1284.
12. Zhao G, **Shi J**, Liang W, Zhang D*. ATP binding cassette G transporters and plant male reproduction, *Plant Signaling & Behavior*, 2016, 11:3, e1136764

2015

1. Li R, Wang C, Ji L, Zhao X, Liu M, Zhang D, **Shi J***. Loop-mediated isothermal amplification (LAMP) assay for GMO detection: recent progresses and future

perspectives. *Open Access Library Journal*, 2015, 2: e1264. <http://dx.doi.org/10.4236/oalib.1101264>.

2. **Shi J**, Cui M, Yang L, Zhang D*. Genetic and biochemical mechanisms of pollen wall development. *Trends in Plant Science*, 2015, 20(11): 741-753.
3. Wang C, Li R, Quan S, Shen P, Zhang D, **Shi J**, Yang L*. GMO detection in food and feed through screening by visual loop-mediated isothermal amplification assays. *Analytical and Bioanalytical Chemistry*, 2015, 407(16): 4829-4834.
4. Xie L, Chen Q, Chen M, Yu L, Huang L, Chen L, Wang F, Xia F, Zhu T, Wu J, Yin J, Liao B, **Shi J**, Zhang J, Aharoni, A, Yao N, Shu W, Xiao S*. Unsaturation of very-long-chain ceramides protects plant from hypoxia-induced damages by modulating ethylene signaling in Arabidopsis. *PLoS Genetics*, 2015, 11(3): e1005143. doi:10.1371/journal.pgen.1005143.
5. Zhao G, **Shi J**, Liang W, Xue F, Luo Q, Zhu L, Qu G, Chen M, Schreiber L, Zhang D*. Two ATP binding cassette G transporters, rice ATP binding cassette G26 and ATP binding cassette G15, collaboratively regulate rice male reproduction. *Plant Physiology*, 2015, 169(3): 2064-2079.

2014

1. Qu G, Quan S, Mondol P, Xu J, Zhang D, **Shi J***. Comparative metabolomic analysis of wild type and mads3 mutant rice anthers. *Journal of Integrative Plant Biology*, 2014, 56(9): 849-863.
2. Lin H, Rao J, **Shi J**, Hu C, Cheng F, Wilson ZA, Zhang D, Quan S. Seed metabolomic study reveals significant metabolite variations and correlations among different soybean cultivars. *Journal of Integrative Plant Biology*, 2014, 56(9): 826-836.
3. Xu J, Ding Z, Vizcay-Barrena G, **Shi J**, Liang W, Yuan Z, Werck-Reichhart D, Schreiber L, Wilson ZA, Zhang D. ABORTED MICROSPORES acts as a master regulator of pollen wall formation in Arabidopsis. *The Plant Cell*, 2014, 26 (4): 1544-1556.
4. Yang X, Wu D, **Shi J**, He Y, Pinot F, Grausem B, Yin C, Zhu L, Chen M, Luo Z, Liang W, Zhang D*. Rice CYP703A3, a cytochrome P450 hydroxylase, is essential for development of anther cuticle and pollen exine. *Journal of Integrative Plant Biology*, 2014, 56(10): 979-994.
5. Xu Y, Cui B, Ran R, Liu Y, Chen H, Kai G, **Shi J***. Risk assessment, formation, and mitigation of dietary acrylamide: Current status and future prospects. *Food and Chemical Toxicology*, 2014, 69: 1-12
6. Hu C[#], **Shi J**[#], Quan S, Cui B, Kleessen S, Nikoloski Z, Tohge T, Alexander D, Guo L, Lin H, Wang J, Cui X, Rao J, Luo Q, Zhao X, Fernie AR, Zhang D. Metabolic variation between *japonica* and *indica* rice cultivars as revealed by non-targeted metabolomics. *Scientific Reports*, 2014, 4: 5067.
7. Rao J, Cheng F, Hu C, Quan S, Lin H, Wang J, Chen G, Zhao X, Alexander D, Guo L, Wang G, Lai J, Zhang D, **Shi J***. Metabolic map of mature maize kernels. *Metabolomics*, 2014, 10 (5): 775-787.
8. Cui B, Zhang W, Ran R, Xu Y, Wu A, Li D, Zhang D, **Shi J***, Chen H*. The Absorption and Accumulation Characteristics of Ethyl Carbamate in Human HepG2 Cells Revealed by. *Life Science Journal*, 2014, 11: 10.

2013

1. Sela D, Buxdorf K, **Shi J**, Feldmesser E, Schreiber L, Aharoni A, Levy M*. Overexpression of AtSHN1/WIN1 provokes unique defense responses. *PLoS ONE*, 2013, 8(7): e70146.
2. Ran R, Zhang W, Cui B, Xu Y, Han Z, Wu A, Li D, Zhang D, Wang C*, **Shi J***. A simple and fast method for the determination of deoxynivalenol in human cells by UPLC-TOF-MS. *Analytical Methods*, 2013, 5: 5637-5643.
3. Rao J, Yang L, Wang C, Zhang D, **Shi J***. Digital gene expression analysis of mature seeds of transgenic maize over-expressing *Aspergillus niger* phyA2 and its non-transgenic counterpart. *GM Crops and Food: Biotechnology in Agriculture and the Food Chain*, 2013, 4:2, 98-108.
4. Zhang Y, Liang W, **Shi J**, Xu J, Zhang D. MYB56 encoding a R2R3 MYB transcription factor regulates seed size in *Arabidopsis thaliana*. *Journal of Integrative Plant Biology*, 2013, 55(11): 1166-1178.
5. Ran R, Wang C, Han Z, Wu A, Zhang D, **Shi J***. Determination of deoxynivalenol (DON) and its derivatives: Current status of analytical methods. *Food Control*, 2013, 34: 138-148.
6. Zhu L, **Shi J**, Zhao G, Zhang D, Liang W. Post-meiotic deficient anther1 (PDA1) encodes an ABC transporter required for the development of anther cuticle and pollen exine in rice. *Journal of Plant Biology*, 2013, 56: 59-66.
7. **Shi J**[#], Adatoa A[#], Alkan N, He Y, Lashbrooke J, Matas AJ, Meir S, Malitsky S, Isaacson T, Prusky D, Schreiber L, Granell AR, Widemann E, Grausem B, Pinot F, Rose JKC, Rogachev I, Rothan C, Aharoni A*. The SISHINE3 transcription factor regulates cutin assembly in the epidermis of developing tomato fruit. *New Phytologist*, 2013, 197(2): 468–480.
8. Ha Z, Zhao Z, **Shi J**, Liao Y, Zhao Z, Zhang D, Wu Y, Saeger SD, Wu A. Combinatorial approach of LC–MS/MS and LC–TOF-MS for uncovering in vivo kinetics and biotransformation of ochratoxin A in rat. *Journal of Chromatography B*, 2013, 925: 46–53.

2012

1. Han Z, Zhao Z, Song S, Liu G, **Shi J**, Zhang J, Liao Y, Zhang D, Wu Y, Saeger SD, Wu A.. Establishment of an isotope dilution LC-MS/MS method revealing kinetics and distribution of co-occurring mycotoxins in rats. *Analytical Methods*, 2012, 4:3708–3717.

2011 and before

1. Chen W, Yu X, Zhang K, **Shi J**, Schreiber L, Shanklin J, Zhang D. Male sterile 2 encodes a plastid-localized fatty acyl ACP reductase required for pollen exine development in *Arabidopsis thaliana*. *Plant Physiology*, 2011, 157(2): 842-53.
2. **Shi J**, Malitsky S, Franke R, Schreiber L, Aharoni A. SHINE transcription factors act redundantly to pattern the archetypal surface of *Arabidopsis* flower organs. *PLoS Genetics*, 2011, 7(5): doi:10.1371/journal.pgen.1001388.

3. Panikashvili D, **Shi J**, Schreiber L, Aharoni A. The Arabidopsis ABCG13 transporter is required for flower cutin secretion and patterning of the petal epidermis. *New Phytologist*, 2011, 190: 113-124 (Cover paper).
4. Panikashvili D[#], **Shi J**[#], Bocobza S, Franke RB, Schreiber L, Aharoni A. The Arabidopsis DSO/ABCG11 transporter affects cutin metabolism in reproductive organs and suberin in roots. *Molecular Plant*, 2010, 3:563-575 (Cover paper).
5. David Panikashvili, **Jian Xin Shi**, Lukas Schreiber and Asaph Aharoni. 2009. The Arabidopsis DCR encoding a soluble BAHD acyltransferase is required for cutin polyester formation and seed hydration properties. *Plant Physiology*, 151:1773-1789.
6. **Shi J**[#], Chen S[#], Gollop N, Goren R, Goldschmidt EE, Porat R. Effects of anaerobic stress on the proteome of citrus fruit. *Plant Science*, 2008, 175: 478-486
7. **Shi J**, Goldschmidt EE, Goren R, Porat R. Molecular, biochemical and anatomical factors governing ethanol fermentation metabolism and accumulation of off-flavors in mandarins and grapefruit. *Postharvest Biology and Technology*, 2007, 46: 242-251.
8. **Shi J**, Riov J, Goren R, Goldschmidt EE, Porat R. Regulatory aspects of ethanol fermentation in immature and mature citrus fruit. *Journal of the American Society for Horticultural Science*, 2007, 132: 126-133.
9. **Shi J**, Porat R, Goren R, Goldschmidt EE. Physiological responses of “Murcott” mandarin and “Star Ruby” grapefruit to anaerobic stress conditions and their relation to fruit taste, quality, and emission of off-flavor volatiles. *Postharvest Biology and Technology*, 2005, 38: 99-105.
10. Li C, **Shi J**, Weiss D, Goldschmidt EE. Sugars regulate sucrose transporter gene expression in citrus. *Biochemical and Biophysical Research Communication*, 2003, 306: 402-407.

Book Chapter

Zhang D*, **Shi J**, Yang X. Role of Lipid Metabolism in Plant Pollen Exine Development. In *Lipids in Plant and Algae Development* (pp.315-337). 2016. Springer International Publishing.

Teaching (bilingual)

- **Undergraduate:** Introduction to Biosafety; Principles and Methods of Biochemical Analysis; Plant Biotechnology
- **Graduate student:** Biosafety (English), Principles and Applications of Biochemical Techniques; Signal Transduction of Animals, Plants and Microorganisms

Professional and social part-time jobs

- 2018-2020 Tutor of Shanghai High School Top Innovative Talents Early Training Project
- 2015 Shanghai Community College (School) Specially Invited Science Popularization Teacher
- 2013-present Spark expert, MOST

- 2012-present Reviewers of <Trends in Plant Sciences>, <Trends in Genetics>, <Plant Biotechnology Journal>, <Molecular Plant>, <Plant Physiology>, <New Phytologist>, <Journal of Experimental Botany>, <Plant Cell and Environment>, <BMC Plant Biology>, <Plant Cell Reports>, <Journal of Genetics and Genomics>, <Planta>, <Journal of Integrative Plant Biology>, <Plant Signaling & Behavior>, <Scientific Report>, <Journal of Agricultural and Food Chemistry>, <Food Chemical Toxicology>, and <Journal of Food Processing & Technology>.