

Biographical Sketch

Xiangjun Zhou

Research Scientist

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(a) Professional Preparation

Lanzhou University	China	Cell Biology	Bachelor 1991
Lanzhou University	China	Cell Biology	Master 1998
Chinese Academy of Sciences	China	Genetics	PhD 2001
University of Arkansas	Arkansas	Plant Pathology	Postdoctoral 2001-2005
Cornell University	New York	Plant Breeding and Genetics	Postdoctoral 2006-2008

(b) Appointments

2015-present	Research Scientist Department of Agronomy	Purdue University
2014-2015	Research associate	Boyce Thompson Institute for Plant Research
2009-2014	Research associate Department of Plant Breeding and Genetics	Cornell University

(c) Products

Publications most closely related

1. Xia C, Zheng Y, Huang J, **Zhou X**, Li R, Zha M, Wang S, Huang Z, Lan H, Turgeon R, Fei Z, Zhang C. 2018. Mechanistic elucidation of long distance mRNA movement in *Nicotiana benthamiana*/tomato heterografts. *Plant Physiology* **177**: 745–758.
2. Welsch R*, **Zhou X***, Yuan H*, Álvarez D, Sun T, Schlossarek D, Yang Y, Shen G, Zhang H, Rodriguez-Concepcion M, Thannhauser T, and Li L. 2018. Clp protease and OR directly control the proteostasis of phytoene synthase, the crucial enzyme for carotenoid biosynthesis in *Arabidopsis*. *Molecular Plant* **11**:149-162 (*co-first author).

3. Tzuri G*, **Zhou X***, Chayut N*, Yuan H, Portnoy V, Meir A, Saar U, Baumkoler F, Mazourek M, Lewinsohn E, Fei Z, Schaffer A, Li L, Burger J, Katzir N, and Tadmor Y. 2015. A 'golden' SNP in *CmOr* governs fruit flesh color of melon (*Cucumis melo*). **Plant Journal** **82**: 267-279. (* equal contribution).
4. **Zhou X**, Welsch R, Yang Y, Riediger M, Álvarez D, Yuan H, Fish T, Liu J, Thannhauser T, and Li L. 2015. Arabidopsis OR proteins are the major posttranscriptional regulator of phytoene synthase in mediating carotenoid biosynthesis. **Proceedings of the National Academy of Sciences of the USA (PNAS)** **112**:3558-3563.
5. Lu S, Van Eck J, **Zhou X**, Lopez AB, O'Halloran DM, Cosman KM, Conlin BJ, Paolillo DJ, Garvin DF, Vrebalov J, Kochian LV, Küpper H, Earle ED, Cao J, and Li L. 2006. The cauliflower *Or* gene encodes a DnaJ cysteine-rich domain-containing protein that mediates high levels of β -carotene accumulation. **Plant Cell** **18**:3594–3605.

Other significant publications.

1. **Zhou X**, Zha M, Huang J, Li L, Imran M, Zhang C. 2017. StMYB44 negatively regulates phosphate transport by suppressing expression of PHOSPHATE1 in potato **Journal of Experimental Botany** **68**:1265-1281 (*co-corresponding author).
2. **Zhou X**, Fei Z, Thannhauser TW, and Li L. 2011. Transcriptome analysis of ectopic chloroplast development in green curd cauliflower (*Brassica oleracea* L. var. *botrytis*). **BMC Plant Biology** **11**:169.
3. **Zhou X**, McQuinn R, Fei Z, Wolters AM, van Eck J, Brown C, Giovannoni JJ, and Li L. 2011. Regulatory control of high levels of carotenoid accumulation in potato tubers. **Plant Cell Environment** **34**:1020-1030.
4. **Zhou X**, Sun TH, Wang N, Ling HQ, Lu S, and Li L. 2011. The cauliflower *Orange* gene enhances petiole elongation by suppressing expression of *eukaryotic release factor 1*. **New Phytologist** **190**:89-100.
5. Chiu LW, **Zhou X**, Burke S, Wu X, Prior RL, and Li L. 2010. The purple cauliflower arises from activation of a MYB transcription factor. **Plant Physiology** **154**:1470-1480.

(d) Synergistic Activities

1. I helped Professor Cankui Zhang supervise graduate students, Jing Huang, Zhikai Yang, Ruijie Han, and Muhammad Imran working on long-distance signaling under mineral deficiency.
2. I gave introductory lectures in 2016-2019 in class (Plant Physiology and Biotechnology Techniques, AGRY59800) at Purdue University.
3. I served as a reviewer for "Journal of Integrative Plant Biology" and "Scientific Reports".
4. I was involved in the Molecular Agriculture Summer Institutes at Purdue University whose mission is to increase exposure of local high school students to plant sciences. I taught the local high school students how to detect mobile mRNAs from shoots to roots.