

## **Youping Sun, Ph.D.**

Department of Plants, Soils and Climate, Utah State University

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### **EDUCATION**

- Ph.D. in Plant Science, University of Maine, Orono, ME, May 2010.
- M.S. in Biochemical Engineering, Huazhong University of Science & Technology, Wuhan, China, June 2004.
- B.S. in Biotechnology, Hunan Agricultural University, Changsha, China, June 2001.

### **PROFESSIONAL EXPERIENCE**

- **Assistant Professor**, Department of Plants, Soils and Climate, Utah State University, August 2017 to present.
- **Senior Research Associate**, Urban Landscape and Water Conservation, Texas A&M AgriLife Research Center at El Paso, TX, September 2016 to July 2017.
- **Research Associate**, Urban Landscape and Water Conservation, Texas A&M AgriLife Research Center at El Paso, TX, January 2012 to August 2016.
- **Postdoctoral Research Fellow**, School of Agricultural, Forest, and Environmental Sciences (Department of Horticulture), Clemson University, Clemson, SC, March 2010 to December 2011.
- **Research Assistant**, School of Food and Agriculture (Department of Plant, Soil and Environmental Sciences), University of Maine, Orono, ME, September 2005 to December 2009.
- **Research Scientist**, Hunan Academy of Forestry, Changsha, China, July 2004 to August 2005.
- **Research Assistant**, Huazhong University of Science & Technology, Wuhan, China, September 2001 to June 2004.

### **TEACHING EXPERIENCE**

**Lab Manager**, Urban Landscape and Water Conservation, Texas A&M AgriLife Research Center at El Paso, January 2012 to July 2017.

- Advising six undergraduate students from Research Initiative for Scientific Enhancement (RISE) Program, El Paso Community College (EPCC, El Paso, TX) on data analysis, PowerPoint preparation for research seminars, and abstract and poster preparation for Annual Biomedical Research Conference for Minority Students (ABRCMS).
- Supervision of 15 work-study students from University of Texas at El Paso and 8 RISE students from EPCC and training them on experimental design, laboratory techniques, and safety procedures.

## Curriculum Vitae of Youping Sun

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- Supervision of Jose Munoz (Hueco Elementary School, El Paso, TX) on science project titled “Grow microgreens under LED and greenhouse condition”. His project has been selected for district competition.
- Three lectures of 3-hour-long training session for Master Gardner program (23, 25, and 25 interns, respectively) on plant propagation by seeds, cuttings, division, and air layering at El Paso Garden Center.

**Teaching Assistant**, Department of Plant, Soil and Environmental Sciences, University of Maine, September 2005 to December 2009.

- Lab classes on Horticulture Science, Woody Landscape Plants, and Plant Production / Nursery Management to 12-25 students.
- Homework, report assignments, quizzes and exams grading.
- Quizzes and exams preparation.

**Invited Instructor**, College of Adult Education, Central South Univ. of Forestry and Technology, China, September 2004 to July 2005.

- Basic concepts of Plant Physiology taught and reviewed to nontraditional students: 34 in Yizhang County and 44 in Anhua County, they have independently studied.
- Exam preparation and grading.

## PUBLICATIONS

### Refereed Journal Articles

<sup>§</sup>Graduate student, <sup>u</sup>Undergraduate student, <sup>v</sup>Visiting scholar, <sup>☒</sup>Corresponding author

1. Liu, Q.<sup>v,\*</sup>, **Y. Sun**<sup>\*</sup>, G. Niu, J. Altland, L. Chen, and L. Jiang. 2017. Morphological and physiological responses of ten ornamental taxa to saline water irrigation. *HortScience* xx:xxx-xxx. (\*co-first author)
2. Chen, L.<sup>v,\*</sup>, **Y. Sun**<sup>\*</sup>, G. Niu, Q. Liu, and J. Altland. 2017. Relative salt tolerance of eight Japanese barberry cultivars. *HortScience* xx:xxx-xxx. (\*co-first author)
3. Niu, Y., W. Long, **Y. Sun**<sup>☒</sup>, Y. Chen, and R. Wang. 2017. Using sensor controlled automatic irrigation system for the production of *Camellia oleifera*. *Nonwood Forest Research* xx:xxx-xxx. [In Chinese with English abstract].
4. Grimaldo-Pantoja, G.L., G. Niu, **Y. Sun**, A. Castro-Rocha, E. Alvarez-Parrilla, J.P. Flores-Márquez, B. Corral-Díaz, and P. Osuna-Avila. 2017. Negative effects of saline irrigation on yield components and phytochemicals of pepper (*Capsicum annuum*) inoculated with arbuscular mycorrhizal fungi. *Rev. Fi totoc. Mex.* 40(92):141-149. [In Spanish with English abstract]
5. Liu, Q.<sup>v,=</sup>, **Y. Sun**<sup>=</sup>, J. Chen<sup>=</sup>, P. Li<sup>=</sup>, G. Niu, C. Li, and L. Jiang. 2016. Transcriptome analysis revealed the dynamic oil accumulation in *Symplocos paniculata* Fruit. *BMC Genomics*. 17:929. DOI 10.1186/s12864-016-3275-0 (=equal contribution).
6. Wu, S.<sup>v</sup>, **Y. Sun**<sup>☒</sup>, G. Niu<sup>☒</sup>, G.L Grimaldo-Pantoja, and A. Castro-Rocha. 2016. Response of six *Lamiaceae* ornamental plants to saline water irrigation. *Journal of*

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- Environmental Horticulturae 34(1):30-35.
7. Wu, S.<sup>v</sup>, **Y. Sun**<sup>✉</sup>, and G. Niu<sup>✉</sup>. 2016. Morphological and physiological responses of ornamental plants to saline water irrigation. *HortScience* 51(3): 285-290.
  8. Wu, S.<sup>v</sup>, **Y. Sun**<sup>✉</sup>, G. Niu<sup>✉</sup>, J. Altland, and R.I. Cabrera. 2016. Response of ten aster species to saline water irrigation. *HortScience* 51(2):197-291.
  9. Masabni, J., **Y. Sun**<sup>✉</sup>, G. Niu<sup>✉</sup>, and P. Del Valle. 2016. Shade effect on growth and productivity of tomato and chili pepper. *HortTechnology* 26(3): 344-350.
  10. Liu, Q.<sup>v</sup>, **Y. Sun**, J. Chen, Z. Zhao, C. Li, G. Niu, and L. Jiang. 2016. Determination of fruit oil content and fatty acid composition in *Symplocos paniculata* using near infrared reflectance spectroscopy. *Journal of Biobased Materials and Bioenergy* 10(4):272-278.
  11. Mukherjee, A.A., **Y. Sun**, E. Morelius, C. Tamez, S. Bandyopadhyay, G. Niu, J.C. White, J.R. Peralta-Videa, and J.L. Gardea-Torresdey. 2016. Differential toxicity of bare and hybrid ZnO nanoparticles in green pea (*Pisum sativum* L.): A life cycle study. *Frontiers in Plant Science* 6:1242. doi:10.3389/fpls.2015.01242.
  12. Hong, J., L. Wang, **Y. Sun**, L. Zhao, G. Niu, W. Tan, C. Rico, J. Peralta-Videa, and J.L. Gardea-Torresdey. 2016. Foliar applied nanoscale and microscale CeO<sub>2</sub> and CuO alter cucumber (*Cucumis sativus*) fruit quality. *Science of the Total Environment* pii: S0048-9697(15)30533-7. doi: 10.1016/j.scitotenv.2015.08.029.
  13. Majumdar, S., J.R. Peralta-Videa, J. Trujillo-Reyes, **Y. Sun**, A.C. Barrios, G. Niu, and J.P. Flores-Margez, and J.L. Gardea-Torresdey. 2016. Soil organic matter influences cerium translocation and physiological processes in kidney bean plants exposed to cerium oxide nanoparticles. *Science of the Total Environment* 569-570: 201-211.
  14. **Sun, Y.**, G. Niu, R.W. Wallace, J. Masabni, and M. Gu. 2015. Relative salt tolerance of seven strawberry cultivars. *Horticulturae* 1:27-43; doi:10.3390/horticulturae1010027.
  15. **Sun, Y.**, G. Niu, and C. Perez. 2015. Relative salt tolerance of seven Texas Superstar<sup>®</sup> perennials. *HortScience* 50(10): 1562-1566.
  16. **Sun, Y.**, G. Niu, J. Zhang, and P. Del Valle. 2015. Growth responses of an introgression cotton line and its parents to controlled drought using an automated irrigation system. *The Journal of Cotton Science* 19:290-297.
  17. **Sun, Y.**<sup>✉</sup>, Y. Sun, Zh. Sun, Q. Liu, P. Li, and Ch. Li. 2015. Mapping monthly distribution of daily light integrals across China. *Hunan Forestry Science & Technology* 42(4): 43-47. [In Chinese with English abstract]
  18. **Sun, Y.**, G. Bi, G. Niu, and C. Perez. 2015. Foliar application of Dikegulac Sodium increases branching of ‘Merritt’s Supreme’ bigleaf hydrangea. *HortTechnology* 25(3): 306-312.
  19. **Sun, Y.**, G. Niu, and J. Masabni. 2015. Simulated sea water flooding reduces the growth of ten vegetables. *HortScience* 50(5): 694-698.
  20. **Sun, Y.**, G. Niu, A.K. Koeser, G. Bi, V. Anderson, K. Jacobsen, R. Conneway, S. Verlinden, R. Stewart, and S.T. Lovell. 2015. Impact of biocontainers on plant performance and container decomposition in the landscape. *HortTechnology* 25(1):

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- 63-70.
21. Zhao, L., **Y. Sun**, J.A. Hernandez-Viezcas, J. Hong, S. Majumdar, G. Niu, M. Duarte-Gardea, J.R. Peralta-Videa, and J.L. Gardea-Torresdey. 2015. Monitoring the environmental effects of CeO<sub>2</sub> and ZnO nanoparticles through the life cycle of corn (*Zea mays*) plants and in situ  $\mu$ -XRF mapping of nutrients in kernels. *Environmental Science & Technology* 49(5):2921-2928.
  22. Nambuthiri, S., R.L. Geneve, **Y. Sun**, X. Wang, R.T. Fernandez, G. Niu, G. Bi, and A. Fulcher. 2015. Substrate temperature in plastic and alternative nursery containers. *HortTechnology* 25(1): 50-56.
  23. Wang, X., R.T. Fernandez, B.M. Cregg, R. Auras, A. Fulcher, D.R. Cochran, G. Niu, **Y. Sun**, G. Bi, S. Nambuthiri, and R.L. Geneve. 2015. Multistate evaluation of plant growth and water use in plastic and alternative nursery containers. *HortTechnology* 25(1): 42-49.
  24. Li, T., G. Bi, G. Niu, S.S. Nambuthiri, R.L. Geneve, X. Wang, R.T. Fernandez, **Y. Sun**, and X.J. Zhao. 2015. Feasibility of using biocontainers in a pot-in-pot system for nursery production of river birch. *HortTechnology* 25(1): 57-62.
  25. Brumfield, R.G., A.J. DeVincentis, X. Wang, R.T. Fernandez, S. Nambuthiri, R.L. Geneve, A.K. Koeser, G. Bi, T. Li, **Y. Sun**, G. Niu, D. Cochran, and A. Fulcher. 2015. Economics of utilizing alternative containers in ornamental crop production systems. *HortTechnology* 25(1): 17-25.
  26. **Sun, Y.**, G. Niu, P. Osuna-Avila, L. Zhao, G. Ganjegunte, G. Peterson, J. Peralta-Videa, and J. Gardea-Torresdey. 2014. Variability in Salt Tolerance of *Sorghum bicolor* L. *Agricultural Sciences* 2(1):9-21. doi: 10.12735/as.v2i1p9.
  27. Cai, X., **Y. Sun**, T. Starman, C. Hall, and G. Niu. 2014. Responses of 18 Earth-Kind® rose cultivars to salt stress. *HortScience* 49: 544-549.
  28. Zhao, L., J.R. Peralta-Videa, C. Rico, J.A. Hernandez-Viezcas, **Y. Sun**, G. Niu, A. Servin, J. Nunez, M. Duarte-Gardea, J. Gardea-Torresdey. 2014. CeO<sub>2</sub> and ZnO nanoparticles change the nutritional qualities of cucumber (*Cucumis sativus*). *Journal of Agricultural and Food Chemistry* 62(13): 2752-2759.
  29. **Sun, Y.**, G. Niu, P. Osuna-Avila, G. Ganjegunte, D. Auld, L. Zhao, J. Gardea-Torresdey, and J. Peralta-Videa. 2013. Seedling emergence and growth of *Ricinus communis* L. cultivars irrigated with saline solution. *Industrial Crops and Products* 49: 75-80.
  30. Zhao, L., **Y. Sun**, J.A. Hernandez-Viezcas, A. Servin, J. Hong, G. Niu, J.R. Peralta-Videa, M. Duarte-Gardea, and J.L. Gardea-Torresdey. 2013. Influence of CeO<sub>2</sub> and ZnO nanoparticles on cucumber physiological markers and bioaccumulation of Ce and Zn: a life cycle study. *Journal of Agricultural and Food Chemistry* 61(49):11945-11951. DOI: 10.1021/jf404328e.
  31. **Sun, Y.**<sup>✉</sup>, L. Han, and D. Zhang<sup>✉</sup>. 2012. In vitro regeneration of *Rudbeckia hirta* 'Plainview Farm' from leaf tissue. *International Journal of Biochemistry and Biotechnology* 1(3): 33-36.

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32. **Sun, Y.**, S. A. White, D. Mann, and J.W. Adelberg. 2012. Photosynthetic characteristics of *Veratrum californicum* in a modified environment. *Journal of Medicinally Active Plants* 1(4): 134-142.
33. **Sun, Y.**, S. A. White, D. Mann, and J.W. Adelberg. 2012. Chilling requirements to break dormancy of *Veratrum californicum*. *HortScience* 47(12):1710-1713.
34. Jin, X., X. Hu, **Y. Sun**, D. Zhang, and P. He. 2012. Callus induction and plant regeneration from immature embryos of *Zelkova sinica* Schneid. *HortScience* 47(6):1-3.
35. Niu, G., P. Osuna, **Y. Sun**, and D. Rodriguez. 2012. Seedling emergence, growth, and mineral nutrition of ornamental chili peppers irrigated with saline water. *HortScience* 47(11):1653-1657.
36. Niu, G., W. Xu, D. Rodriguez, and **Y. Sun**. 2012. Growth and physiological responses of maize and sorghum genotypes to salt stress. *ISRN Agronomy*, DOI:10.5402/2012/145072.
37. Zhao, L., B. Peng, J.A. Hernandez-Viezcas, C. Rico, **Y. Sun**, J.R. Peralta-Videa, X. Tang, G. Niu, L. Jin, A.V. Ramirez, J. Zhang, and J.L. Gardea-Torresdey. 2012. Stress response and tolerance of *Zea mays* to CeO<sub>2</sub> nanoparticles: cross talk among H<sub>2</sub>O<sub>2</sub>, heat shock protein and lipid peroxidase. *ACS Nano* 6(11): 9615-9622. DOI: 10.1021/nn302975u.
38. **Sun, Y.**<sup>□</sup>, L.B. Stack, D. Zhang<sup>□</sup>, and Zh. Gu. 2011. Control growth of *Euphorbia pulcherrima* Willd. ex Klotzsch 'Sonora Jingle' and 'Sonora White' using Ethephon. *Horticulture, Environment and Biotechnology* 52(4):351-356.
39. Moran, R.E., **Y. Sun**, F. Geng, D. Zhang, and G. Fazio. 2011. Cold temperature tolerance of apple rootstock trunk and root tissues. *HortScience* 46(11):1460-1464.
40. Zhang, D., **Y. Sun**<sup>\*</sup>, X. Jin, and L. Han. 2011. Cross compatibility of *Ilex glabra* (L.) A.Gray with *Ilex × meserveae* S.Y. Hu and *Ilex verticillata* (L.) A. Gray. *Journal of Central South Univ. of Forestry and Technology* 31(10):1-9. (\*corresponding author)
41. **Sun, Y.** and D. Zhang. 2010. Cold hardiness of *Ilex glabra* cultivars from field trials and laboratory tests. *Journal of Environmental Horticulture* 28(4):191-196.
42. **Sun, Y.**, D. Zhang, and J.M. Smagula. 2010. Micropropagation of *Ilex glabra* (L.) Gray. *HortScience* 45 (5):805-808.
43. Long, W., Sh. Wen, D. Zhang, and **Y. Sun**. 2010. Morphological and ecophysiological responses of *Camellia oleifera* cultivars to different irrigation levels. *Journal of Central South University of Forestry and Technology* 30(8):41-46. [In Chinese with English abstract]
44. Li, P., Ch. Li, L. Jiang, and **Y. Sun**. 2006. Seed germination vigor of three species of woody oil plants. *Nonwood Forest Research* 24(1):71-73. [In Chinese with English abstract]
45. Zhao, Ch., L. Yu, Zh. Liu, and **Y. Sun**. 2006. The dynamic variation of several important taxane content in post-harvest *Taxus chinensis* clippings. *Journal of Asian Natural Products Research* 8(3):229-239.

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46. Cheng, H., L. Yu, Q. Hu, Sh. Chen, and **Y. Sun**. 2006. Establishment of callus and cell suspension culture of *Corydalis saxicola* Bunting, a rare medicinal plant. *Zeitschrift Fur Naturforschung C- A Journal of Bioscience* 61(3-4):251-256.
47. Jiang, L., P. Li, and **Y. Sun**. 2005. Compared study on cold resistant of plantlets from *Euphorbia tirucalli* different selection resources. *Hunan Forestry Science & Technology* 32(6):22-25. [In Chinese with English abstract]
48. Cheng, H., L. Yu, Q. Hu, **Y. Sun**, and Sh. Chen. 2005. Extraction of total RNA from leaves of sterile Maca plantlet. *Biotechnology* 2:45-47. [In Chinese with English abstract]
49. Li, P., Zh. Feng, L. Jiang, and **Y. Sun**. 2005. Highly effective expression of platelet-derived growth factor (PDGF) in the *Pichia pastoris* yeast. *Life Science Research* 9(4):346-350. [In Chinese with English abstract]
50. Zhao, Ch, L. Yu, Zh. Liu, and **Y. Sun.**, and W. Li. 2005. Distribution of taxol and taxanes in yew tree. *Chemistry and Industry of Forest Products* 25(1):89-93. [In Chinese with English abstract]
51. Yu, L., W. Lan, Ch. Chen, Y. Yang, and **Y. Sun**. 2005. Importance of glucose-6-phosphate dehydrogenase in taxol biosynthesis in *Taxus Chinese* cultures, *Biologia Plantarum* 49 (92):265-268.
52. Yu, L., **Y. Sun**, H. Cheng, and W. Jin. 2004. Selection of proper areas for introducing the plantation of Maca. *Life Science Research* 8(3): 250-255. [In Chinese with English abstract]
53. Yu, L., **Y. Sun**, H. Cheng, X. Zeng, and W. Jin. 2004. Taxonomic positions of Maca in *Lepidium* in China. *Acta Botanica Boreali-occidentalia Sinica* 24:1901-1905. [In Chinese with English abstract]
54. Cheng, H., L. Yu, **Y. Sun**, and W. Jin. 2004. Callus induction and plant regeneration of *Lepidium meyenii* Walp. *Plant Physiology Communications* 40:709. [In Chinese]
55. Cheng, H., L. Yu, Q. Hu, **Y. Sun**, W. Jin, Sh. Chen, and M. Li. 2004. Micro-propagation of *Lepidium meyenii* Walp. (Maca) by shoot culture. *Agricultural Science and Technology* 5(4):18-22.
56. Jiang, L., **Y. Sun**, and P. Li. 2003. Effects of culture factors on micro-propagation of *Euphorbia tirucalli*. *Guangxi Science* 10:232-237. [In Chinese with English abstract]
57. Yu, L., S. Mei, W. Jin, H. Cheng, and **Y. Sun**. 2003. Effects of *Lepidium meyenii* extracts on sexual behavior of male mice. *Chinese Journal of New Drugs* 12:1014-1015. [In Chinese with English abstract]
58. Jiang, L., P. Li, and **Y. Sun**. 2002. Primary studies on cutting propagation for *Euphorbia tirucalli*. *Hunan Forestry Science & Technology* 29(3):13-16. [In Chinese with English abstract]

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### Book Chapters

1. **Sun, Y.**, G. Niu, P. Li, J. Masabni. 2017. Salt Tolerant Bioenergy Crops for Improving Productivity of Marginal Lands, p. In: M.R. Goyal, S.S. Nambuthiri, and R. Koech (eds.). Innovations in Agricultural & Biological Engineering -Technological Interventions in Management of Irrigated Agriculture. Apple Academic Press, Inc., Waretown, New Jersey. ISBN: 9781771885928, E-Book ISBN: 9781315204307
2. Li, P., **Y. Sun**<sup>✉</sup>, C. Li, L. Jiang, L. Zhang, and Z. Xiao. 2017. Biodiesel Production: A Review on *Swida wilsoniana* (Wilson's Dogwood), p.291-301. In: M.R. Goyal and R.K. Sivanappan (eds.). Innovations in Agricultural & Biological Engineering – Engineering Practices for Agricultural Production and Water Conservation, an Interdisciplinary Approach. Apple Academic Press, Inc., Waretown, New Jersey. ISBN: 9781771884518, E-Book ISBN: 9781315365954.
3. Liu, Q., **Y. Sun**, J. Chen, P. Li, G. Niu, C. Li, and L. Jiang. 2017. *Symplocos paniculata* (Sapphire Berry): a Woody and Energy-efficient Oil Plant, p. In: M.R. Goyal, S.S. Nambuthiri, and R. Koech (eds.). Innovations in Agricultural & Biological Engineering - Technological Interventions in Management of Irrigated Agriculture. Apple Academic Press, Inc., Waretown, New Jersey. ISBN: 9781771885928, E-Book ISBN: 9781315204307
4. White, S.A., J.W. Adelberg, J. Naylor-Adelberg, D.A. Mann, J.Y. Song, and **Y. Sun**. 2016. Micropropagation, Acclimatization, and Greenhouse Culture of *Veratrum californicum*. Methods in Molecular Biology 1391:187-199. doi: 10.1007/978-1-4939-3332-7\_13. (S.M. Jain. 2016. Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants. 2<sup>nd</sup> ed. Springer, New York.)
5. Niu, G., **Y. Sun**, J. Masabni, and P. Osuna. 2013. Growing bioenergy crops in marginal lands: salt tolerance and water use of potential bioenergy crops. Capítulo XXI: 396-412. Agricultura Orgánica, Sexta Parte, Red Internacional de Agricultura Organica.
6. **Sun, Y.** 2003. Cultivation and Propagation of Maca (*Lepidium meyenii* Walp.), p. 21-31. In: L. Yu and W. Jin (eds.). Introduction of Maca. 1<sup>st</sup> ed. Huazhong University of Science and Technology Press, Wuhan, China. [Chinese]

### Extension Articles

1. Masabni, J., **Y. Sun**, and G. Niu. 2016. Reducing Saltwater Flood Damage to Vegetable Plants. Texas A&M AgriLife Extension. College Station, TX. EHT-088.
2. Wallace, R. and J. Anclso. 2014. Production guide for Texas grown strawberries. Texas A&M AgriLife Extension Service, HT-047. (One of 16 collaborating authors)

### Conference Proceedings

1. **Sun, Y.**, G. Niu, and H. Barrera. 2016. Effect of Volumetric Water Content on the Growth of *Anisacanthus quadrifidu*, *Caryopteris x clandonensis* and *Cuphea* 435-797-2972; youping.sun@usu.edu

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- hyssopifolia*. SNA Research Conference Proceedings 61: 29-34. (The 61<sup>th</sup> Annual Southern Nursery Association Research Conference, Athens, GA, 30 August-1 September 2016).
2. **Sun, Y.**, G. Niu, and C. Perez. 2016. Relative Salt Tolerance of Six Texas Superstar® Annuals. SNA Research Conference Proceedings 61: 85-90. (The 61<sup>th</sup> Annual Southern Nursery Association Research Conference, Athens, GA, 30 August-1 September 2016).
  3. Liu, Q., **Y. Sun**<sup>✉</sup>, J. Chen, P. Li, C. Li, L. Jiang<sup>✉</sup>, and G. Niu. 2016. *Symplocos paniculata*: a new ornamental plant species. Acta Horticulturae xx: xxx-xxx. (The 2<sup>nd</sup> International Conference on Germplasm of Ornamentals, Atlanta, GA, 8-12 August 2016).
  4. **Sun, Y.**, G. Niu, and D. Zhang. 2015. Effect of volumetric water content on the growth of *Nandina domestica*. SNA Research Conference Proceedings 60: 45-51. (The 60<sup>th</sup> Annual Southern Nursery Association Research Conference, Atlanta, GA, 21-23 July 2015).
  5. Cabrera, R.I., S. Cooper, G. Niu, J. Altland, and **Y. Sun**. 2015. Assessing use and management of alternative irrigation water sources for green industry activities. SNA Research Conference Proceedings 60: 245-249. (The 60<sup>th</sup> Annual Southern Nursery Association Research Conference, Atlanta, GA, 21-23 July 2015).
  6. **Sun, Y.**, G. Niu, C. Perez, and P. Osuna-Avila. 2014. Salt tolerance of *Artemisia schmidtiana*, *Buddleia davidii*, and *Lantana* sp. SNA Research Conference Proceedings 59: 109-112. (The 59<sup>th</sup> Annual Southern Nursery Association Research Conference, Atlanta, GA, 22-24 August 2014).
  7. **Sun, Y.**, G. Niu, C. Perez, and P. Osuna-Avila. 2014. Salt tolerance of garden rose cultivars. SNA Research Conference Proceedings 59: 99-104. (The 59<sup>th</sup> Annual Southern Nursery Association Research Conference, Atlanta, GA, 22-24 August 2014).
  8. Niu, G., **Y. Sun**, and C. Perez. 2014. Growth and physiological responses of selected ornamental plants. Proceedings of 3<sup>rd</sup> International Salinity Forum, 256-257. (3<sup>rd</sup> International Salinity Forum, Riverside, CA, 16-18 June 2014).
  9. **Sun, Y.**, G. Bi, and G. Niu. 2013. Impact of dikegulac sodium and pinching on the branching of *Hydrangea macrophylla* 'Merritt's Supreme'. SNA Research Conference Proceedings. 58:167-173. (The 58<sup>th</sup> Annual Southern Nursery Association Research Conference, Atlanta, GA, 5-6 August 2013).
  10. Niu, G., P. Osuna-Avila, and **Y. Sun**. 2013. Growth and physiological responses of plants to salt stress. Ciencia de la Frontera, Revista de Ciencia y tecnología XI: 19-25. (En Foro Internacional de agricultura orgánica. Ciencia de la Frontera, Revista de Ciencia y tecnología de la UACJ. México, June 2013).
  11. Moran, R.E., D. Zhang, and **Y. Sun**. 2011. Cold temperature tolerance of G.16 and G.935 apple roots. Acta Horticulturae 903:289-293. (IX International Symposium on Integrating Canopy, Rootstock and Environmental Physiology in Orchard Systems, Geneva, NY, 8 August 2008).



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12. **Sun, Y.**, D. Zhang, and F. Geng. 2010. Genetic diversity and taxon delineation of *Ilex glabra* (L.) Gray using AFLP. *Acta Horticulturae* 859:261-269. (International Symposium on Molecular Markers in Horticulture, Corvallis, OR, 29 July 2009).

### Patents

1. Jiang, L., J. Li, P. Li, Ch. Li, Zh. Xiao, J. Hao, P. Cui, W. Wang, Ch. F., Y. Liu, L. Zhang, and **Y. Sun**. 2010. Production of immobilized lipase using corn cob, #ZL 2009-1-0044436-X. [Chinese Patent]
2. Yu, L., H. Cheng, **Y. Sun**, and W. Jin. 2004. Micro-propagation of Maca, #ZL 03-1-28263.6. [Chinese Patent]
3. Li, Ch, L. Zhang, Zh. Xiao, P. Li, D. Li, L. Jiang, and **Y. Sun**. 2007. Biodiesel from seed oil of *Swida wilsoniana*. CN1891785. [Chinese Patent]
4. Jiang, L., Ch. Li, P. Li, **Y. Sun**, L. Zhang, and Zh. Xiao. 2006. Cutting propagation and tissue culture of *Euphorbia tirucalli*, CN 1806512. [Chinese Patent]
5. Yu, L., W. Jin, H. Cheng, and **Y. Sun**. 2004. Extraction of the active component of Maca, CN1473594. [Chinese Patent]

### Gene Sequence

- Liu, Zh., L. Yu, and **Y. Sun**. *Lepidium meyenii* 18S ribosomal RNA gene, partial sequence. AY544990.1 GI: 46310082.

### Research Reports

- **Sun, Y.** and G. Niu. Relative Salt Tolerance of Japanese Barberry Cultivars. Final report to Spring Meadow Nursery, Grand Haven, MI
- Niu, G. and **Y. Sun**. Salinity tolerance of selected bioenergy crops. Draft the final report for SunGrant project (Dr. Niu is the Co-PI)
- **Sun, Y.**, J.W. Adelberg, S.A. White, and J. Naylor-Adelberg. 2010. Large Scale Propagation, Clonal Selection and Greenhouse Production in *Veratrum californicum*. A final report of two-year funding to Infinity Pharmaceutical, Inc. 35p.

### Abstracts

1. **Sun, Y.**, G. Niu, and B. Pemberton. 2017. Relative salt tolerance of marigold cultivars. *HortScience* 61(9): Sxxx
2. **Sun, Y.** and G. Niu. 2017. Field trials of 22 pomegranate cultivars in west Texas: a preliminary report. *HortScience* 61(9): Sxxx
3. **Sun, Y.**, G. Niu, and L. Chen. 2017. Effect of shade cloth and kaolin clay on pomegranate fruit subburn. *HortScience* 61(9): Sxxx
4. **Sun, Y.**, G. Niu, D. Rodriguez, and J. Masabni. 2017. Field trials of twelve asian vegetables in west Texas. *HortScience* 61(9): Sxxx
5. **Sun, Y.**, Q. Liu, L. Chen, and G. Niu. 2017. Relative salt tolerance of eight barberry

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- cultivars. HortScience 61(9): Sxxx
6. **Sun, Y.**, L. Chen, Q. Liu, and G. Niu. 2017. Effect of different replenishing methods in a NFT system on growth of four leafy vegetables. HortScience 61(9): Sxxx
  7. Chen, L., H. Liu, **Y. Sun**, and G. Niu. 2017. Anatomical analysis of *Cypripedium* root and associated mycorrhizal fungi. HortScience 61(9): Sxxx
  8. Liu, Q., **Y. Sun**, G. Niu, and L. Jiang. 2017. Morphological and physiological responses of *Cornus alba* to salt and drought stresses. HortScience 61(9): Sxxx
  9. **Sun, Y.** and G. Niu. 2016. Relative salt tolerance of twenty-four chili pepper cultivars. HortScience 60(9): S318.
  10. **Sun, Y.** and G. Niu. 2016. Relative salt tolerance of eighteen chili pepper cultivars. HortScience 60(9): S385.
  11. **Sun, Y.**, Q. Liu, G. Niu, and J. Masabni. 2016. Effect of transplanting date on the growth of asian vegetables. HortScience 60(9): S257.
  12. **Sun, Y.**, G. Niu, S. Wu, G.L. Grimaldo-Pantoja, and A.C. Rocha. 2016. Response of six Lamiaceae ornamental species to saline water irrigation. HortScience 60(9): S56.
  13. Liu, Q., **Y. Sun**, J. Chen, P. Li, G. Niu, C. Li, and L. Jiang. 2016. Transcriptome analysis revealed the dynamic fruit oil accumulation of *Symplocos paniculata*. HortScience 60(9): S238.
  14. Liu, Q., **Y. Sun**, Z. Zhao, L. Jiang, and G. Niu. 2016. Determination of fruit oil content and fatty acid composition in *Symplocos paniculata* using near-infrared reflectance spectroscopy. HortScience 60(9): S379.
  15. Liu, Q., **Y. Sun**, J. Chen, P. Li, C. Li, L. Jiang, and G. Niu. 2016. *Symplocos paniculata*, a new ornamental plant species. HortScience 60(9): S310.
  16. Barrera, H., **Y. Sun**, and G. Niu. 2016. Drought Tolerance of *Anisacanthus quadrifidus* var. *Wrightii*, *Caryopteris* × *clandonensis* ‘Dark Knight’, and *Cuphea hyssopifolia*. HortScience 60(9): S16.
  17. Jochum, M., Y. Jo, **Y. Sun**, and G. Niu. 2016. Bioprospecting Rhizosphere Bacteria to Improve Drought Tolerance and Disease Resistance in Grasses. The 28th Annual Texas Plant Protection Conference, Bryan, TX, Dec. 6-7, 2016.
  18. Castro-Rocha, A., P. Osuna-Avila, G. L. Grimaldo-Pantoja, J. P. Flores-Márgez, S. Wu, **Y. Sun**, and G. Niu. 2016. Fruit yield and ascorbic acid content of pepper plants grown in soils amended with organic fertilizers under field conditions in southwest Texas. HortScience 60(9): S272.
  19. Grimaldo-Pantoja, G. L., P. Osuna-Avila, G. Niu, **Y. Sun**, A. Castro-Rocha, E. Álvarez-Parrilla, J. P. Flores-Márgez, B. Corral-Díaz. 2016. Effect of native and commercial arbuscular mycorrhizal fungi on the development, fruit yield, and phytochemicals of pepper plants under a range of salinity conditions. HortScience 60(9): S115.
  20. **Sun, Y.**, Y. Sun, Zh. Sun, P. Li, and Ch. Li. 2015. Mapping monthly distribution of daily light integrals across China. HortScience 50(9):S393.
  21. **Sun, Y.**, J. Masabni, P. Del Valle, and G. Niu, 2015. Effect of different light levels on

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- the growth and production of chili pepper and tomato plants. *HortScience* 50(9):S200.
22. **Sun, Y.**, G. Niu, J. Iglesias, J. Altland, and R. Cabrera. 2015. Salt Tolerance of 22 Pomegranate Cultivars. *HortScience* 50(9):S310.
  23. Wu, Sh., **Y. Sun**, G. Niu, J. Altland, and R.I. Cabrera. 2015. Salt tolerance of ten perennial plants in Asteraceae. *HortScience* 50(9):S280.
  24. Li, P., Ch Li, L. Jiang, and **Y. Sun**. 2015. Establishment of anther culture of *Swida wilsoniana*. *HortScience* 50(9): S369.
  25. Del Valle, P., **Y. Sun**, and G. Niu. 2014. Effect of Different Shade Cloth on the Growth of Vegetables. Annual Biomedical Research Conference for Minority Students (ABRCMS), Nov. 12, 2012, San Antonio, TX.
  26. **Sun, Y.**, G. Niu, and C. Perez. 2014. Salt tolerance of selected Texas Superstar® perennials. *HortScience* 49(9): S34-35.
  27. **Sun, Y.**, G. Niu, and J. Zhang. 2014. Growth and physiological responses of cotton genotypes to controlled drought using an automated irrigation system. 49(9): S237.
  28. **Sun, Y.**, G. Niu, G. Ganjunte, and Y. Wu. 2014. Salt tolerance of six switchgrass varieties. 49(9): S387.
  29. Niu, G., **Y. Sun**, G. Bi, A. Koeser, K. Jacobsen, V. Anderson, S. Verlinden, and R. Conneway. 2014. Impact of Biocontainers on Plant Performance and Container Decomposition in the Landscape. *HortScience* 49(9): S92.
  30. Jin, X., **Y. Sun**, X. Hu, and D. Zhang. 2014. Somatic embryogenesis and histological analysis of *Zelkova schneideriana* Hand.-Mazz. 49(9): S233-234.
  31. Nambuthiri, S., R.L. Geneve, **Y. Sun**, X. Wang, G. Bi, R.T. Fernandez, G. Niu, A.F. Fulcher, and D. Cochran. 2014. Impact of alternative materials on container physical properties and substrate temperature. *HortScience* 49(9): S92-93.
  32. Li, T., G. Bi, G. Niu, S.S. Nambuthiri, R.L. Geneve, X. Wang, R.T. Fernandez, A.F. Fulcher, **Y. Sun**, and X. Zhao. 2014. Use of fiber containers in pot-in-pot system for two-year nursery production of birch. *HortScience* 49(9): S94-95.
  33. **Sun, Y.**, G. Niu, and P. Osuna. 2013. Elevated salinity in irrigation water reduced growth of *Ricinus communis* L. cultivars. *HortScience* 48(9): S149.
  34. **Sun, Y.**, G. Niu, P. Osuna, and G. Peterson. 2013. Variability in salt tolerance of 10 sorghum genotype. *HortScience* 48(9): S252.
  35. Niu, G., **Y. Sun**, G. Bi, A. Koeser, K. Jacobsen, S. Verlinden, R. Conneway, and A. Fulcher. 2013. Impact of biopots on landscape plant performance and pot degradation. *HortScience* 48(9): S206.
  36. Yang, Y., C. Li, Z. Li, **Y. Sun**, L. Jiang, P. Li, and J. Chen. 2013. Somatic embryogenesis of *Symplocos paniculata*. *HortScience* 48(9): S271.
  37. Nambuthiri, S., R.L. Geneve, G. Niu, **Y. Sun**, G. Bi, R.T. Fernandez, and X. Wang. 2013. Impact of container material on substrate heat buildup in an outdoor nursery. *HortScience* 48(9): S301.
  38. Yang, Y., L. Jiang, R. Wang, M. Luo, Q. Liu, X. Yin, and **Y. Sun**. 2013. Micropropagation of *Corymbia ptychocarpa*. *HortScience* 48(9): S270.

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39. Li, T., G. Bi, G. Niu, S. Nambuthiri, R. L. Geneve, X. Wang, R.T. Fernandez, A. Fulcher, and **Y. Sun**. 2013. Use of biocontainers in pot-in-pot nursery production system. *HortScience* 48(9): S353.
40. Wang, X., R.T. Fernandez, G. Bi, A. Fulcher, R.L. Geneve, G. Niu, S. Verlinden, B. Cregg, M. Ngouajio, T. Kijchavengku, R. Auras, S. Nambuthiri, R. Conneway, and **Y. Sun**. 2013. Plant growth and water use in plastic, fiber, keratin, and root pouch containers. *HortScience* 48(9): S215.
41. Perez, C., **Y. Sun**, and G. Niu. 2012. Salt tolerance of *Artemisia schmidtiana* 'Silver Mound'. Annual Biomedical Research Conference for Minority Students (ABRCMS), Nov. 10, 2012, San Jose, CA.
42. Manriquez, D., G. Niu, P. Osuna, and **Y. Sun**. 2012. Plant growth regulator impact on verbena and calibrachoa branching and performance. Conference of Research Experience for Undergraduate Scholarship, Oct 21-22, Arlington, VA.
43. Fang, G., **Y. Sun**, D. Zhang, and J.M. Smagula. 2011. Genotype variation of *in vitro* regeneration of inkberry. *HortScience* 46(9): S395.
44. **Sun, Y.**, S.A. White, D. Mann, J. Naylor-Adelberg, and J.W. Adelberg. 2011. Vernalization and forced growth of *Veratrum californicum*. 2<sup>nd</sup> Annual Conference of American Council for Medicinal Active Plants, Page 42.
45. **Sun, Y.**, J. Naylor-Adelberg, S. A. White, D. Mann, and J.W. Adelberg. 2011. Micropropagation of *Veratrum californicum* through tri-scale culture. *In Vitro Cellular and Developmental Biology* 47: 544.
46. Moran, R.E., F. Geng, **Y. Sun**, and D. Zhang. 2010. Cold hardiness of apple rootstock trunk and root tissues. *HortScience* 45(8): S149.
47. **Sun, Y.** and D. Zhang. 2010. Cold hardiness of *Ilex glabra* cultivars from field trial and laboratory test. *HortScience* 45(4):481.
48. Long W., **Y. Sun**, Sh. Wen, and D. Zhang. 2010. Growth and physiological response of *Camellia oleifera* Abel cultivars to controlled drought. *HortScience* 45(4):481.
49. Zhang, D., **Y. Sun**, L.B. Stack, and M.E. Rumpho. 2009. A rapid woody plant breeding system for alternative ornamentals: *Ilex glabra* (L.) A. Gray (inkberry) as an example. International Symposium for Invasive Plants. Page 54.
50. **Sun, Y.**, D. Zhang, and J.M. Smagula. 2009. Micropropagation of *Ilex glabra* (L.) A. Gray. *HortScience* 44(4):1042.
51. **Sun, Y.**, D. Zhang, and L. Han. 2009. Cross compatibility of inkberry with meserve holly and common winterberry. *HortScience* 44(3):545.
52. **Sun, Y.**, D. Zhang, and L. Han. 2009. In vitro regeneration of *Rudbeckia hirta* L. 'Plainview Farm' from leaf tissue. *HortScience* 44(3):553-554.
53. **Sun, Y.**, H. Cheng, L. Yu, and D. Zhang. 2008. Allelopathic effect of Maca. *HortScience* 43(4):1223-1224.
54. **Sun, Y.** and D. Zhang. 2008. Deacclimation significantly reduced cold hardiness of Densa and Shamrock inkberry. *HortScience* 43(4):1273-1278.
55. Geng, F., D. Zhang, M.H. Brand, and **Y. Sun**, and Zh. Li. 2008. Japanese barberry and

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hybrid cultivars showed various rooting ability from stem cuttings. *HortScience* 43(4):1279.

56. Li, Ch., P. Li, **Y. Sun**, L. Zhang, and D. Zhang. 2008. Genetic diversity of *Swida wilsoniana* (Wanger.) Sojak clones using ISSR markers. *HortScience* 43(4):1287.
57. **Sun, Y.**, D. Zhang, L.B. Stack, and B. Xie. 2007. Growing 'Sonora Red' poinsettia with various growth retardants. *HortScience* 42(4):925-926.
58. **Sun, Y.**, L.B. Stack, D. Zhang, and Zh. Gu. 2007. Growth control of *Euphorbia pulcherrima* Willd. ex Klotzsch 'Sonora Jingle' and 'Sonora White' using Ethephon. *HortScience* 42(3):433.

### PRESENTATIONS

#### Research-related Presentations

1. Anatomical analysis of *Cypripedium* root and associated mycorrhizal fungi. Annual Conference of ASHS, Hawaii, HI, 22 September 2017.
2. Field trials of twelve asian vegetables in west Texas. Annual Conference of ASHS, Hawaii, HI, 22 September 2017.
3. Effect of shade cloth and kaolin clay on pomegranate fruit sunburn. Annual Conference of ASHS, Hawaii, HI, 21 September 2017.
4. Field trials of 22 pomegranate cultivars in west Texas: a preliminary report. Annual Conference of ASHS, Hawaii, HI, 21 September 2017.
5. Relative salt tolerance of marigold cultivars. Annual Conference of ASHS, Hawaii, HI, 20 September 2017.
6. Salt tolerance of *Cornus alba* seedlings. Annual Conference of ASHS, Hawaii, HI, 20 September 2017.
7. Relative salt tolerance of eighteen chili pepper cultivars. Annual Conference of ASHS, Atlanta, GA, 11 August 2016.
8. Relative salt tolerance of twenty-four chili pepper cultivars. Annual Conference of ASHS, Atlanta, GA, 10 August 2016.
9. Effect of native and commercial arbuscular mychorrizea fungi on the development, yield, and phytochemicals of pepper plants under a range of salinity conditions. Annual Conference of ASHS, Atlanta, GA, 9 August 2016.
10. Fruit yield and ascorbic acid content of pepper plants grown in soils amended with organic fertilizers under field conditions in southwest Texas. Annual Conference of ASHS, Atlanta, GA, 9 August 2016.
11. Effect of transplanting date on the growth of Asian vegetables. Annual Conference of ASHS, Atlanta, GA, 9 August 2016.
12. Plant responses to abiotic and biotic stresses. invited presentation, Central South University of Forestry and Technology, Changsha, Hunan, China, 24 December 2015.
13. Sensor controlled drought affects plant morphology and physiology. invited presentation, Guangdong Academy of Agricultural Sciences, Guangzhou, China, 17 Dec. 2015.

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14. Plant responses to abiotic and biotic stresses. invited presentation, Guizhou Normal University, Guiyang, Guizhou, China, 14 December 2015.
15. Effect of different light levels on the growth and production of chili pepper and tomato plants. Annual Conference of ASHS, New Orleans, LA, 7 August 2015.
16. Establishment of anther culture of *Swida wilsoniana*. Annual Conference of ASHS, New Orleans, LA, 7 August 2015.
17. Mapping monthly distribution of daily light integrals across China. Annual Conference of ASHS, New Orleans, LA, 7 August 2015.
18. Salt tolerance of ten perennial plants in Asteraceae. Annual Conference of ASHS, New Orleans, LA, 5 August 2015.
19. Salt Tolerance of 22 Pomegranate Cultivars. Annual Conference of ASHS, New Orleans, LA, 5 August 2015.
20. Growth and physiological responses of cotton genotypes to controlled drought using an automated irrigation system. Annual Conference of American Society for Horticultural Science (ASHS), Orlando, FL, 31 July 2014.
21. Impact of biocontainers on plant performance and container decomposition in the landscape, Annual Conference of ASHS, Orlando, FL, 29 July 2014.
22. Sensor controlled drought affects plant morphology and physiology, invited presentation, Central South Univ. of Forestry and Technology, Changsha, Hunan, China, 3 April 2014.
23. Salt tolerance of six switchgrass varieties. Annual Conference of ASHS, Orlando, FL, 31 July 2014.
24. Elevated salinity in irrigation water reduced growth of *Ricinus communis* L. cultivars. Annual Conference of ASHS, Palm Desert, CA, 23 July 2013.
25. Variability in salt tolerance of ten sorghum genotypes. Annual Conference of ASHS, Palm Desert, CA, 22 July 2013.
26. Vernalization and forced growth of *Veratrum californicum*. 2<sup>nd</sup> Annual Conference of American Council for Medicinal Active Plants, Huntsville, AL, 19 July 2011.
27. Micropropagation of *Veratrum californicum* through tri-scale culture. 2011 Meeting of the Society for In Vitro Biology, Raleigh, NC, 6 June 2011.
28. Selection, Micropropagation, and Cold Hardiness of *Ilex glabra* (L.) A. Gray, Invited presentation, Hunan Academy of Forestry, Changsha, Hunan, China, 16 April 2011.
29. Cold hardiness of *Ilex glabra* (L.) A. Gray cultivars from field trial and laboratory test, Northeast Region Meeting of ASHS, Cambridge, MA, 6 January 2010.
30. Micropropagation of *Ilex glabra* (L.) A. Gray, Annual Conference of ASHS, Saint Louis, MO, 27 July 2009.
31. Micropropagation of *Ilex glabra* (L.) A. Gray, UMaine Graduate Research Expo, Graduate Student Government of University of Maine, 14 April 2009.
32. *In vitro* regeneration of *Rudbeckia hirta* 'Plainview Farm' from leaf tissue, Northeast Region Meeting of ASHS, Newark, DE, 10 January 2009.

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33. Cross compatibility of inkberry with common winterberry and meserve holly, Northeast Region Meeting of ASHS, Newark, DE, 9 January. 2009.
34. Deacclimation significantly reduced cold hardiness of 'Densa' and 'Shamrock' inkberry, Annual Conference of ASHS, Orlando, FL, 24 July 2008.
35. Genetic diversity of *Swida wilsoniana* (Wanger.) Sojak clones using ISSR markers, Annual Conference of ASHS, Orlando, FL, 24 July 2008.
36. Allelopathic effect of Maca, Annual Conference of ASHS, Orlando, FL, 22 July 2008.
37. Growing 'Sonora Red' poinsettia with various growth retardants, Annual Conference of ASHS, Scottsdale, Arizona, 16 July 2007.
38. Growth control of *Euphorbia pulcherrima* Willd. ex Klotzsch 'Sonora Jingle' and 'Sonora White' using Ethephon, Northeast Region Meeting of ASHS, University of Maryland, Baltimore, 5 January 2007.

### Extension-related Presentations

1. **Sun, Y.**, D. Rodriguez, J. Masabni, and G. Niu. Field trials of asian vegetables in El Paso, Texas. Field Day, Texas A&M AgriLife Research and Extension Center and The El Paso County Master Gardeners Association, El Paso, TX, 12 Jan. 2017, 40 participants.
2. Plant propagation by seeds, cuttings, division, and air layering. Three-hour-long Training Session for Master Gardener Program, El Paso Garden Center, El Paso, TX, 10 November 2016.
3. Plant propagation by seeds, cuttings, division, and air layering. Three-hour-long Training Session for Master Gardener Program, El Paso Garden Center, El Paso, TX, 22 October 2015.
4. Plant propagation by seeds, cuttings, division, and air layering. Three-hour-long Training Session for Master Gardener Program, El Paso Garden Center, El Paso, TX, 2 October 2014.

### GRANTS AND PROPOSALS

1. Wright, G., M. Thetford, Z. Deng, Z. Jia, L. House, G. Vallad, S. Agehara, J.C. Diaz-Perez, D. Merhaut, M.J. Mulvaney, G. Niu, J. Masabni, U. Schuch, E. Smith, J. Preece, M. Roose, P. Mauk, and **Y. Sun**. Developing Pomegranate Cropping Systems for New Commercial Opportunities in the U.S. Specialty Crop Research Initiative - Coordinated Agricultural Projects. 2017 to 2022. GRANT12352892. Total Project = \$ 6,800,000. (Key Personnel) This proposal was not funded.
2. G. Niu, **Y. Sun**, Joe Masabni, and Larry Stein. Developing Texas Pomegranate Industry through Cultivar Trials and Statewide Outreach. Texas Department of Agriculture Specialty Crop Block Grant, December 1, 2017 to March 31, 2019. SC-1718-003. Total Project = \$ 58,616. (Co-PI)

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3. **Sun, Y.**, Y. Tian, Y. Niu, Zh. Zeng, Y. Li, F. Ma, J. Luo, Z. Wu. Nursery production of *Camellia oleifera* (oil-tea camellia) using sensor controlled automatic irrigation system. National Engineering Research Center for Oil-Tea Camellia, Opening Project Funds, July 2014 to June 2016. Total Project = 100,000 RMB. (PI)
4. Moran, R.E., D. Zhang, and **Y. Sun**. Cold temperature tolerance of apple rootstocks. International Dwarf Fruit Tree Association. 1 May 2009 to 1 May 2010. Total Project = \$ 1,500. (Co-PI).
5. Moran, R.E., D. Zhang, and **Y. Sun**. Cold temperature tolerance of apple rootstocks. New England Tree Fruit Research Committee. 1 May 2009 to 1 May 2010. Total Project = \$ 2,000. (Co- PI).
6. Zhang, D., **Y. Sun**, and R.E. Moran. Cold temperature tolerance of apple rootstocks. Maine Agricultural Center. 1 May 2008 to 1 Dec. 2009. Total Project = \$ 2,800. (Co- PI).

### AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

1. **Position Reclassification** with Merit-Based Salary Promotion, Texas A&M AgriLife Research Center, El Paso, TX, 2016.
2. **Superior Service Awards**, team member of Texas Strawberry Project, Texas A&M AgriLife Extension Service, College Station, TX 2015.
3. **Merit-Based Salary Promotion**, Texas A&M AgriLife Research Center, El Paso, TX, 2013, 2014, 2015.
4. **Merit-Based Cash Awards**, Texas A&M AgriLife Research Center, El Paso, TX, 2012.
5. Li, Ch, P. Li, Zh. Xiao, X. Jiang, W. Liang, L. Zhang, Y. Liu, X. Zeng, L. Li, D. Li, A. Zhang, **Y. Sun**. 2012. Breeding of New Castor Bean Cultivars for Southern China Regions and Their Oil Utilization Technology. 1<sup>st</sup> Prize of Hunan Provincial Science and Technology Progress Award (#20114068-J1-137-R12), Hunan Provincial Government, Changsha, Hunan, China.
6. **First Prize of Oral Presentation** for Graduate Student Competition, Northeast Region Meeting of American Society for Horticultural Science (ASHS), 2010.
7. **Student Travel Grants** for attending Northeast Region Meeting and Annual Conference of ASHS, Graduate Student Government, University of Maine, 2008, 2009.
8. **Summer Graduate Research Fellowship**, Graduate School, University of Maine, 2008.
9. **Student Travel Grants** for attending the Annual Conference of ASHS, American Society for Horticultural Science, 2007, 2008, 2009.
10. **Sun, Y.**, Z. Wang, and L. Hu. 1999. Winner of Chinese Mathematical Modeling Contest, Chinese Society for Industrial and Applied Mathematics, Beijing, China.
11. **Undergraduate Fellowships**, merit-based cash awards from Hunan Agricultural University, 1998, 1999, 2000.
12. **Outstanding Undergraduate Student**, Hunan Agricultural University. 1998, 1999, 2000.



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### PROFESSIONAL DEVELOPMENT AND SERVICE

#### Memberships

- American Society for Horticultural Science, Member, 2007 to present.
- American Council for Medicinal Active Plants, Member, 2011 to 2012.
- The Society for In Vitro Biology, member, 2011 to 2012.
- Eastside Toastmasters Club, El Paso, TX, 2013 to present.

#### Peer Review

- Member of Editorial Board for Horticultural Science, published by Czech Academy of Agricultural Sciences in Prague, 2010 to present.
- Member of Editorial Board for Journal of Plant Studies, published by Canadian Center of Science and Education (CCSE), 2012 to present.
- Member of Editorial Board for Wudpecker Journal of Agricultural Research, published by Wudpecker Journals, 2012 to present.
- Member of Editorial Board for Journal of Applied Biotechnology, published by Macrothink Institute, 2014 to present.
- Ad-hoc Review (61)
  - Acta Horticulturae (2)
  - Electronic Journal of Plant Breeding (1)
  - Horticultural Science (2)
  - Horticulture, Environment, and Biotechnology (8)
  - HortScience (10)
  - HortTechnology (3)
  - International Journal of Plant Sciences (1)
  - International Journal of Tropical Biology and Conservation (1)
  - In Vitro Cellular and Developmental Biology-Plant (2)
  - Journal of Applied Biotechnology (4)
  - Journal of Arid Land (3)
  - Journal of Medicinally Active Plants (1)
  - Journal of Plant Studies (3)
  - Scientia Horticulturae (8)
  - Wudpecker Journal of Agricultural Research (12)

#### Leadership and Service Activities

- **Membership Committee Member** for ASHS, 2017-2018.
- **Chair-elect**, Plant Biotechnology Professional Interest Group of ASHS, 2017-2018.
- **Secretary**, Asian Horticulture Professional Interest Group of ASHS, 2017-2018.
- **Secretary**, Propagation Professional Interest Group of ASHS, 2017-2018.

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- **Chair**, Propagation Working Group of ASHS, 2016-2017, Co-organize a professional tour with American Pomological Society “Experience Tropical Fruits and Propagation Practices on the Big Island of Hawaii” in 18 September, 2017. 34 participants.
- **Chair-elect**, Propagation Working Group of ASHS, 2015-2016.
- **Moderator** for Selection and Breeding session at the 2<sup>nd</sup> International Symposium on Germplasm of Ornamentals, ISHS, Atlanta, GA, USA, 10 August 2016.
- **Scientific Committee Member** for the 2<sup>nd</sup> International Symposium on Germplasm of Ornamentals, International Society for Horticultural Science (ISHS), Atlanta, GA, USA, 7-13 August 2016.
- **Membership representative** for ASHS, 2015 to present.