

Curriculum Vitae
Hye-Ji Kim, Ph.D.
Assistant professor of Sustainable Horticulture Crop Production
Purdue University
Appointment: 70% Research 30% Instruction

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EDUCATION

Ph.D. in Horticulture, **Pennsylvania State University**, University Park, PA,
M.S. in Biological Production Science, **Shizuoka University**, Shizuoka, Japan
B.S. in Horticultural Science, **Korea University**, Seoul, Korea

POSITIONS HELD

Assistant Professor (Tenure-track), Department of Horticulture and Landscape Architecture Purdue University,
West Lafayette, Indiana. August 2014 to present

Affiliated Faculty, Purdue Water Community.

Purdue University, West Lafayette, Indiana. September 2014 to present

Affiliated Faculty, Ecological Science and Engineering Interdisciplinary Graduate Program.

Purdue University, West Lafayette, Indiana. January 2015 to present

Assistant Professor (Tenure-track), Department of Tropical Plant and Soil Sciences, University of Hawaii at
Manoa, Honolulu, Hawaii.

December 2011 to August 2014

Instructor, Department of Biology, University of South Alabama, Mobile, Alabama.

August 2008 to August 2011

Research Associate, Department of Horticulture, Cornell University, Ithaca, New York.

February 2005 to May 2008

Research/Teaching Assistant, Stress Physiology/Plant Nutrition Lab, Department of Horticulture,
Pennsylvania State University, University Park, Pennsylvania.

January 2000 to May 2004

COURSES TAUGHT

Purdue University

- HORT 20100: Plant Propagation (Spring 2015/2016)

University of Hawaii at Manoa

- TPSS 120E: Plants for People - Ornamental Plants (1 credit) (Spring 2013)
- TPSS 200: Tropical Crop Science (3 credits: 3 lectures – core course for Plant Production and Management major) (Fall 2012/2013/2014)
- TPSS 364: Horticultural Practices (2 credits: 1 lecture, 3-hour lab– core course for Plant Production and Management major) (Fall 2012/2013/2014)
- TPSS 420: Plant Propagation (3 credits: 2 lectures, 1 3-hour lab) (Spring 2012/ 2013/ 2014)
- TPSS 440: Tissue Culture/Transformation (Spring 2012) Guest lecture on the topic of “Ethylene Resistant Petunia”

- TPSS 470: Plant Physiology (3 credits: 3 lectures) (Spring 2013/2014)
- TPSS 470L Principles of Plant Physiology Lab (1 credit: 1 3-hour lab) (Spring 2014)
- TPSS 674: Plant Growth and Development (3 credits: 3 lectures) (Fall 2012/2014)
- TPSS 491 Experimental Topics & TPSS 711 Special Topics: Horticulture Production Systems in China (May 18-31, 2014)

University of South Alabama

- BLY 101L: Life Science I Laboratory
- BLY 121L: General Biology I Laboratory
- BLY 122L: General Biology II Laboratory

Cornell University

- Hort 425: Postharvest Biology of Horticultural Crops Laboratory (Guest Lecture, Fall 2005/2007)

Pennsylvania State University

- Hort 412W: Postharvest Physiology (Lab Instructor)

RESEARCH EXPERIENCE

Assistant Professor, Department of Horticulture and Landscape Architecture, Purdue University. August 2014 to Present

- USGS project: *Water and nutrient recovery from aquaculture effluents through vegetable production*
- USDA-NIFA AFRI project (sub-award): *Nitrogen transformations in aquaponic systems*
- USDA-NIFA Multi-state project (NC1186): *Water management and quality for ornamental crop production and health*
- Development of sustainable horticulture crop production systems in greenhouse and other controlled environment agriculture (CEA) focusing on water and nutrient management.
- Alternative specialty crop production – greenhouse edible ginger production

Assistant Professor, Department of Tropical Plant and Soil Sciences, University of Hawaii at Manoa. December 2011 to August 2014

- USDA-NIFA AFRI project: *Nitrogen transformations in aquaponic systems*
- USDA-NIFA Supplemental Funds project: *Integrated water and nutrient management through precise irrigation for sustainable ornamental crop production*
- USDA-NIFA Multi-state project (NC1186): *Water management and quality for ornamental crop production and health*
- USDA-NIFA Hatch project1: *Establishment of sustainable production systems for Hawaii's ornamental industry*
- USDA-NIFA Hatch project2: *Flowering control of tropical ornamentals*

Research Associate, Department of Horticulture, Cornell University. February 2005 to May 2008.

- AFE project: Investigated environmental effects (light intensity, growing temperature and cold storage temperature) on the development of cold-storage-induced bud necrosis in Oriental lilies
- Gloeckner/ Post-Shenkel/ Anthos projects
- IR-4 project: Investigated the impact of various plant growth regulators on postproduction quality of geraniums

Research Assistant, Stress Physiology/Plant Nutrition Lab, Department of Horticulture, Penn State University. January 2000 to May 2004.

- BARD project: Examined performance of ethylene insensitive genotypes in tomato and petunia grown with low phosphorus availability
- NSF project: Tested the effect of ethylene on the change of basal root angle in common beans. Screened common bean RILs (Recombinant Inbred Lines) derived from parents with contrasting basal root architecture for plastic root response to low phosphorus availability

- PPG project: Evaluated the effects of a proprietary compound on leaf nitrogen pools, photosynthesis, plant growth and productivity in lettuce and oat; Evaluated the effects of a proprietary compound on production quality in geraniums
 - Zeolite project: Evaluated nitrogen and phosphorus slow-releasing compounds on production quality in geraniums
 - Gloeckner project: Enhancement of postproduction quality of regal pelargoniums and examined physiological mechanism related to long flower longevity in Penn State genotypes
- Research Assistant**, Ornamental Plants and Vegetable Crops Laboratory, Department of Biological Science, Shizuoka University, Shizuoka, Japan. April 1997 to December 1999.
- Meiji Sangyo Project: Postharvest handling of the cut rose flowers, Evaluated the effects of a proprietary compound on vase life of cut rose flowers.
 - Postharvest handling of *Cymbidium* orchids

PUBLICATIONS

Articles Published in Refereed Journals

1. **Kim, H.J** and X.X. Li. 2016. Effects of phosphorus on shoot and root growth, partitioning and phosphorus utilization efficiency in lantana. HortScience. (*accepted*)
2. **Kim, H.J.** 2016. Opportunities and challenges of alternative specialty crop: The global picture. HortScience. (*submitted*)
3. Yang, H.F., **H.J. Kim**, H.B. Chen, L. Yong, X. Y. Lu, C. Wang, B.Y. Zhou. 2016. ROS and NO induce programmed cell death in the rudimentary leaves of *litchi chinensis*. BMC Biology (*submitted*)
4. Criley, R. and **H.J. Kim**. 2015. Year round production of *Globba sherwoodiana* ‘White Dragon’ cut flowers. *Acta Horticulturae* 1097: 251-255.
5. **Kim, H.J.**, L. Chen, M.H. Kim and K. Leonhardt. 2015. Influence of soilless substrates on irrigation frequency and plant growth of *Leucospermum*. *Acta Horticulturae* 1104: 57-62.
6. Lichty, J., P. Singleton, and **H.J. Kim**. 2015. Substrates affect irrigation frequency and plant growth of potted orchids. *Acta Horticulturae* 1104: 463-468.
7. Yang, H. F., **H.J. Kim**, H.B., Chen, J. Rahman, X.Y. Lu, B.Y. Zhou. 2014. Carbohydrate accumulation and flowering-related gene expression levels at different developmental stages of terminal shoots in in *Litchi chinensis*. HortScience 49: 1381-1391.
8. Lu, X.Y., **H.J. Kim**, H.B., Chen, X.Q, Hu, and B.Y. Zhou. 2014. De novo transcriptome assembly for rudimentary leaves in *Litchi chinensis* Sonn. and identification of differentially expressed genes in response to reactive oxygen species. BioMed Central Genomics. 15:805-819.
9. Gao. X., M. Wu, R. Xu, X. Wang, R. Pan and **H.J. Kim**, and H. Liao. 2014. Root Interactions in a Maize/Soybean Intercropping System Control Soybean Soil-Borne Disease, Red Crown Rot. *PLoS One*. DOI: 10.1371/journal.pone.0095031. PLoS One 1/34
10. **Kim, H.J.**, P. Singleton, J. Lichty, and A. Kawabata. 2014. Water requirements of tropical ornamental crops. *Acta Horticulturae*. 1037: 425-432.
11. Singleton, P., J. Lichty, and **H.J. Kim**. 2014. Anthurium productivity is limited by water and nutrient availability in volcanic cinder medium. *Acta Horticulturae*. 1037: 445-450.
12. Liu, W.W., **H.J. Kim**, H.B., Chen, X.Y. Lu, and B.Y. Zhou. 2013. Identification of MV-generated ROS Responsive EST Clones in Floral Buds of *Litchi chinensis* Sonn. *Plant Cell Reports*. 32:1361-1372.
13. Garg, A.J., J.K. Kim, T.G. Owens, **H.J. Kim**, and L.V. Kochian. 2012. Genetic modification of trehalose metabolism in cereal crops to improve grain yield. In: Muralidharan K and Siddiq EA, eds. 2012. *International Dialogue on Perception and Prospects of Designer Rice*. Jointly organized by the Society for Advancement of Rice Research, International Rice Research Institute & International Crops Research Institute for the Semi-Arid tropics, India. Pp. 125-130.

14. **Kim, H.J.**, and W.B. Miller. 2009. GA₄₊₇ plus BA enhances postproduction quality in pot tulips. *Postharvest Biology and Technology*. 51 (2): 272-277.
15. **Kim, H.J.**, J.P. Lynch, and K.M. Brown. 2008. Ethylene insensitivity impedes a subset of responses to phosphorus deficiency in tomato and petunia. *Plant, Cell and Environment*. 31: 1744-1755.
16. **Kim, H.J.** and W.B. Miller. 2008. Effects of GA₄₊₇ and benzyladenine application on postproduction quality of 'Seadov' pot tulip flowers. *Postharvest Biology and Technology*. 47 (3): 416-421.
17. **Kim, H.J.**, and W.B. Miller. 2007. Characterizing cold-storage-induced bud necrosis in 'Mona Lisa' lilies. *Acta Horticulturae*. 768:463-467.
18. **Kim, H.J.**, A. Espenshade, and K.M. Brown. 2007. Effect of pollination on petal abscission in regal pelargonium. *Acta Horticulturae*. 768:451-454.
19. **Kim, H.J.**, R. Craig, and K.M. Brown. 2007. Ethylene resistance of regal pelargonium is complemented but not replaced by 1-MCP. *Postharvest Biology and Technology*. 45: 66-72.
20. **Kim, H.J.**, R. Craig, and K.M. Brown. 2006. Genetic variation in ethylene responsiveness of Regal Pelargonium. *Journal of American Society for Horticultural Science*. 131 (1): 122-126.
21. **Kim, H.J.**, R. Craig, and K.M. Brown. 2005. Genetically enhanced postproduction quality of Regal Pelargonium, *Acta Horticulturae*. 669: 135-141.
22. **Kim, H.J.**, E.J. Holcomb, and K.M. Brown. 2005. Lanthanum effects on the gravitropic response of cut tulip flowers, *Acta Horticulturae*. 669: 417-423.
23. Ohkawa, K., H. Ohno, **H.J. Kim**, A. Tamagawa, and J.N. Suh. 2005. Mechanism of reduction of cut rose flower longevity as affected by brittle leaf formation, *Acta Horticulturae*. 669: 199-206.
24. Brown, K.M., Y.J. Zhang, **H.J. Kim**, and J.P. Lynch. 2004. The ethylene underground. Proceedings of the XXVI International Horticultural Congress: Environmental Stress and Horticulture Crops. *Acta Horticulturae*. 618: 193-198.

Articles Published in Non-refereed Journals

1. **Kim, H.J.**, and K. Sewake. 2013. Challenges for Hawaii's Floriculture Industry and Strategies for Global Competition. Ohio Florists Association Bulletin. March/April, Number 938: 19-20.
2. **Kim, H.J.**, and W.B. Miller. 2009. Impact of various PGRs on postproduction quality of potted geraniums. SNA Research Conference Proceeding 54: 385-390.
3. Garg A.K., T.L. Setter, **H.J. Kim**, W.B. Miller, T.G. Owens, L.V. Kochian and R.J. Wu. 2008. Stress-inducible overexpression of *E.coli* trehalose biosynthetic genes in rice and maize plants improves drought tolerance. Gordon Research Conference 2008: Salt & Water Stress In Plants, Big Sky, MT.
4. **Kim, H.J.**, and W.B. Miller. 2007. Causes and Control of Cold-Storage-Induced Bud Necrosis in 'Mona Lisa' Lilies. Research Newsletter. Published by Cornell University and Anthos, Royal Trade Association for Nurserystock and Flowerbulbs
5. **Kim, H.J.**, K. Ohkawa, Y. Kuda, and J.N. Suh. 1998. Effect of combined pretreatment and stem recutting on cut rose flowers after postharvest pretreatment and simulated transport. Suppl. J. Japan. Soc. Hort. Sci. 67 (1) '98, 287.
6. Suh, J.N., **H.J. Kim**, Y. Kuda, and K. Ohkawa. 1997. Effect of stem recutting on fresh weight and vase life of cut rose flowers after postharvest pretreatment and simulated transport. Journal of the Japanese Society for Horticultural Science Supplement. 66 (2) '97, 66-67.
7. Suh, J.N., Y. Kuda, **H.J. Kim**, and K. Ohkawa. 1997. Cultivar difference in senescence symptoms of *Cymbidium* flowers after emasculation. Journal of the Japanese Society for Horticultural Science Supplement. 66 (2) '97, 64-65.

Research Reports to Sponsor

1. **Kim, H.J.** 2015. CRIS Report 2014-2015
2. **Kim, H.J.** 2014. CRIS Report 2013-2014: Project 8024H Establishment of Sustainable Production Systems for Hawaii's Ornamental Industry.
3. **Kim, H.J.** 2014. CRIS Report 2013-2014: Project 856H Flowering Control of Tropical Ornamentals.
4. **Kim, H.J.** 2014. NC1186 annual station report 2013-2014.
5. **Kim, H.J.** 2013. CRIS Report 2012-2013: Project 8024H Establishment of Sustainable Production Systems for Hawaii's Ornamental Industry.
6. **Kim, H.J.** 2013. CRIS Report 2012-2013: Project 856H Flowering Control of Tropical Ornamentals.
7. **Kim, H.J.** 2012. CRIS Report 2011-2012: Project 856H Physiology of Flowering of Tropical Ornamentals.
8. **Kim, H.J.**, and W.B. Miller. 2007. Impact of various PGRs on postproduction quality of potted geraniums. submitted to Dr. Cristi Palmer, IR-4 HQ.
9. **Kim, H.J.**, and W.B. Miller. 2007. Tulip pigmentation during shipping. Submitted to Kerry's Bromeliads and University of Florida (Dr. Paul Fisher).
10. **Kim, H.J.**, and W.B. Miller. 2007. Characterizing cold-storage-induced bud necrosis in oriental lilies. Submitted to The Onings Holland.
11. **Kim, H.J.**, and W.B. Miller. 2006. Improvement of postharvest quality in tulips using Gibberellin₄₊₇ and Benzyladenine. Submitted to The Fred C. Gloeckner Foundation, Inc.
12. **Kim, H.J.**, and W.B. Miller. 2006. Characterizing cold-storage-induced bud necrosis in 'Mona Lisa' lilies. Submitted to The American Flower Endowment.
13. **Kim, H.J.**, and W.B. Miller. 2005 (December progress report). Characterizing cold-storage-induced bud necrosis in 'Mona Lisa' lilies. Submitted to The American Flower Endowment.
14. **Kim, H.J.**, and K.M. Brown. 2004. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress. Submitted to The Fred C. Gloeckner Foundation, Inc.
15. **Kim, H.J.** 2004. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress. Submitted to College of Agricultural Sciences, Penn State University.
16. **Kim, H.J.**, and K.M. Brown. 2003. Postproduction quality in the Regal Pelargonium, Submitted to The Fred C. Gloeckner Foundation, Inc.

Published Abstracts

1. Yang, T. and **H.J. Kim**. 2016. Conservation of aquaculture wastewater and nutrients through vegetable crop production. *Agroenviron* 2016 (in press).
2. **Kim, H.J.** 2015. Alternative specialty crop: opportunities and challenges Introduction to Colloquium'. *HortScience* 50(9): S63.
3. Xu, L.Z., N. Liu and **H.J. Kim**. 2015. Effects of Parboiled Rice Hull Amended Substrates on the Growth and Water Use of Petunia and Zinnia. *HortScience* 50(9): S286.
4. Xu, L.Z., N. Liu and **H.J. Kim**. 2015. Physical and Chemical Properties of a Peat-based Substrate Amended with Parboiled Rice Hull. *HortScience* 50(9): S286.
5. Chen, L., K. Leonhardt and **H.J. Kim**. 2015. Effects of Paclobutrazol on the Growth of *Leucospermum* Hybrids. *HortScience* 50(9): S365.
6. **Kim, H.J.** 2014. Using web-based assignments to enhance student learning and productivity. *HortScience* 49(9): S79.
7. **Kim, H.J.** and X.X., Li. 2014. Effects of reduced phosphorus on growth and flowering of Lantana. *HortScience* 49(9): S231.
8. **Kim, H.J.** and M.H. Kim. 2014. Involvement of calcium and boron in the development of brown spots on the leaves of *Oncidium* Sharry Baby. *HortScience* 49(9): S232.

9. Pant, A., and **H.J. Kim**. 2014. Physical and chemical properties of peat-based substrate as affected by volcanic cinder amendment. *HortScience* 49(9): S255.
10. **Kim, H.J.**, M.H. Kim, and Kenneth Leonhardt. 2014. Influence of soilless substrates on irrigation frequency and plant growth of *Leucospermum*. *HortScience* 49(9): S180.
11. Lichty, J, P. Singleton, and **H.J. Kim**. 2014. Substrates affect irrigation frequency and plant growth of potted orchids. *HortScience* 49(9): S388.
12. Li, X.X., and **H.J. Kim**. 2014. Optimum substrate moisture content improves quality of *Impatiens* and *Coleus*. *HortScience* 49(9): S315.
13. Liu, W., N. Nian, C. Guo, and **H.J. Kim**. 2014. Comparisons of Species Diversity of Intensive Green Roofs between Honolulu, Hawaii, and Guangzhou, China. *HortScience* 49(9): S302.
14. Li, X.X., K. Leonhardt, and **H.J. Kim**. 2014. Variations in flowering characteristics of *Oncidium* intergeneric hybrid orchids. *HortScience* 49(9): S356.
15. Liu, W., X. Li, L. Chen, K. Leonhardt and **H.J. Kim**. 2014. Effects of Paclobutrazol on growth of *Leucospermum* hybrids. CTAHR Student Research Symposium 26: XX.
16. Chen, L., W. Liu, K. Leonhardt, and **H.J. Kim**. 2014. Evaluation of postharvest life of cut *Oncidium* flowers. CTAHR Student Research Symposium 26: 55.
17. Liu, W., N. Nian, C. Guo, and **H.J. Kim**. 2014. Comparisons of green roofs between Honolulu, USA and Guangzhou, China. CTAHR Student Research Symposium 26: 40.
18. Hunefeld, D., K. Leonhardt, and **H.J. Kim**. 2014. Enhancing the rooting of protea cuttings during winter months. CTAHR Student Research Symposium 26: 17.
19. **Kim, H.J.**, P. Singleton, J. Lichty, and A. Kawabata. 2013. Water requirements of tropical ornamental crops. International Society for Horticultural Science: Greensys 2013: 101.
20. Singleton, P., J. Lichty, and **H.J. Kim**. 2013. Anthurium productivity is limited by water and nutrient availability in volcanic cinder medium. International Society for Horticultural Science: Greensys 2013: 179.
21. Kim, M.H., X.X. Li, A. Corpuz, D. Hunefeld, K. Leonhardt, and **H.J. Kim**. 2013. Substrate moisture sensor-based irrigation for the greenhouse production of protea. Landscape Industry Council of Hawai'i (LICH) Conference 13(10): 1.
22. Li, X.X., D. Hunefeld, A. Corpuz, M.H. Kim, **H.J. Kim**. 2013. Knowing the optimum phosphorus level for plant helps save cost and environment. Landscape Industry Council of Hawai'i (LICH) Conference 13(10): 2.
23. Hunefeld, D., A. Corpuz, M.H. Kim, X.X. Li, K. Leonhardt, and **H.J. Kim**. 2013. Enhancing the rooting of protea cuttings. Landscape Industry Council of Hawai'i (LICH) Conference 13(10): 1.
24. **Kim, H.J.**, M.H. Kim, X.X. Li, and K. Leonhardt. 2013. Temperature affects the development of brown spots on the leaves of *Oncidium* Sharry Baby. *HortScience* 48(9): S381.
25. Kim, M.H., K. Leonhardt and **H.J. Kim**. 2013. Evaluation of *Oncidium* intergenics as potential cut flowers. *HortScience* 48(9): S382.
26. Li, X.X., **H.J.Kim** and H. Liao. 2013. A soybean β -expansin gene *GmEXPB2* involved in root system architecture responses to abiotic stresses in transgenic *Arabidopsis*. *HortScience* 48(9): S218.
27. Li, X.X., **H.J.Kim** and H. Liao. 2013. Effects of plant hormones on root growth and *GmEXPB2* expression in soybean. *HortScience* 48(9) Supplement: S321.
28. Kim, M. H., X.X. Li, K. Leonhardt and **H.J. Kim**. 2013. Temperature affects the development of brown spots on the leaves of *Oncidium* Sharry Baby. CTAHR Student Research Symposium 25:39.
29. Kim, M. H., Y.Karki, K. Leonhardt and **H.J. Kim**. 2013. Evaluation of *Oncidium* intergenics as potential cut flowers. CTAHR Student Research Symposium 25: 24.
30. Li, X.X., J. Zhao, **H.J.Kim** and H. Liao. 2013. Effects of plant hormones on root growth and *GmEXPB2* expression in soybean. CTAHR Student Research Symposium 25: 83.
31. **Kim, H.J.**, G. Moorman, and K.M. Brown. 2012. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress. *HortScience* 47(9): S335.

32. Garg, A.K., J.K. Kim, T.G. Owens, Y.D. Choi, **H.J. Kim**, W.B. Miller, L.V. Kochian and R.J. Wu, 2012. Regulated overexpression of trehalose biosynthetic fusion gene (TPSP) in cereal plants improves salinity and drought stress tolerance. *Current Pharmaceutical Biotechnology* 13 (15): 40.
33. **Kim, H.J.**, and W.B. Miller. 2007. Preventing Cold-storage-induced Bud Necrosis in ‘Mona Lisa’ Lilies. *HortScience* 42(4): 917.
34. **Kim, H.J.**, and W.B. Miller. 2007. Effects of GA₄₊₇ plus BA on Postharvest Quality of Cut Tulips. *HortScience* 42(4): 926.
35. **Kim, H.J.**, C.B. Watkins, and W.B. Miller. 2006. Characterizing cold-storage-induced bud necrosis in ‘Mona Lisa’ lilies. 27th International Horticultural Congress & Exhibition (IHC 2006), COEX (Convention & Exhibition), Seoul, Korea: 280.
36. **Kim, H.J.**, and W.B. Miller. 2006. Effects of GA₄₊₇ plus BA on postproduction quality of pot tulips. 27th International Horticultural Congress & Exhibition (IHC 2006), COEX (Convention & Exhibition), Seoul, Korea: 301.
37. **Kim, H.J.**, A. Espenshade, and K.M. Brown. 2006. Effect of pollination on petal abscission in regal pelargonium. 27th International Horticultural Congress & Exhibition (IHC 2006), COEX (Convention & Exhibition), Seoul, Korea: 278.
38. **Kim, H.J.**, and W.B. Miller. 2006. Effects of GA₄₊₇ and BA application on postproduction quality in ‘Seadov’ pot tulip flowers. *HortScience*. 41: 491.
39. **Kim, H.J.**, R. Craig, and K.M. Brown. 2003. Genetic variation in postproduction quality of regal pelargonium. *HortScience* 38(5):837.
40. **Kim, H.J.**, E.J. Holcomb, and K.M. Brown. 2003. Lanthanum effects on gravitropic response of cut tulip flowers. *HortScience* 38(5):858.
41. **Kim, H.J.**, H. Ohno, and K. Ohkawa. 2003. Variations in emasculation-induced flower senescence among *Cymbidium* cultivars, *HortScience* 38(5):860.
42. **Kim, H.J.**, C.H. Khang, G. Moorman, S.C. Kang, J.P. Lynch, and K.M. Brown. 2003. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress, *Phytopathology* 93:S45.
43. **Kim, H.J.**, J.P. Lynch, and K.B. Brown. 2003. The effects of genetic inhibition of ethylene sensitivity on growth responses to phosphorus deficiency in tomato and petunia, 67th Annual Meeting of the Northeast Section of the American Society of Plant Biologists P13.

PRESENTATIONS

- denotes presenting author
1. •Yang, T. and **H.J. Kim**. 2016. Conservation of aquaculture wastewater and nutrients through vegetable crop production. *Agroenviron 2016: 10th International Symposium on Agriculture and the Environment*. May 23-27, 2016 (poster presentation).
 2. •Criley, R. and **H.J. Kim**. 2015. Year around production of *Globba sherwoodiana* ‘White Dragon’ cut flowers. VIII International Symposium on New Ornamental Crops and XII International Protea Research Symposium and XVII International Protea Association Conference, Perth, Australia (poster presentation)
 3. •**Kim, H.J.** 2015. Introduction to Colloquium “Alternative specialty crop: opportunities and challenges”. American Society for Horticultural Science, New Orleans, LA. August 4-7, 2015.
 4. Xu, L.Z., N. Liu and •**H.J. Kim**. 2015. Effects of Parboiled Rice Hull Amended Substrates on the Growth and Water Use of Petunia and Zinnia. American Society for Horticultural Science, New Orleans, LA. August 4-7, 2015. (poster presentation)
 5. •Xu, L.Z., N. Liu and **H.J. Kim**. 2015. Physical and Chemical Properties of a Peat-based Substrate Amended with Parboiled Rice Hull. American Society for Horticultural Science, New Orleans, LA. August 4-7, 2015. (poster presentation)

6. Chen, L., K. Leonhardt and **•H.J. Kim**. 2015. Effects of Paclobutrazol on the Growth of *Leucospermum* Hybrids. American Society for Horticultural Science, New Orleans, LA. August 4-7, 2015. (poster presentation)
7. **•Kim, H.J.**, X.X. Li, M. H. Kim, and K. Leonhardt. 2014. Variations in flowering characteristics of *Oncidium* intergenerics. The 29th International Horticultural Congress. Sustaining Lives, Livelihoods and Landscapes, Brisbane, Australia (oral presentation)
8. Li, X.X., and **•H.J. Kim**. 2014. Effects of phosphorus on the growth and flowering of Lantana. The 29th International Horticultural Congress. Sustaining Lives, Livelihoods and Landscapes, Brisbane, Australia (poster presentation)
9. Kim, M.H. and **•H.J. Kim**. 2014. Influence of soilless substrates on irrigation frequency and plant growth of *Leucospermum*. The 29th International Horticultural Congress. Sustaining Lives, Livelihoods and Landscapes, Brisbane, Australia (oral presentation)
10. Lichty, J, P. Singleton, and **•H.J. Kim**. 2014. Substrates affect irrigation frequency and plant growth of potted orchid. The 29th International Horticultural Congress. Sustaining Lives, Livelihoods and Landscapes, Brisbane, Australia (poster presentation)
11. **•Kim, H.J.** 2014. Sustainable production systems in Plant Agriculture. US-Korea Conference (UKC) 2014, San Francisco, CA. August 6-9, 2014 (scheduled) (**invited by session chair**)
12. **•Kim, H.J.** 2014. Benefits of studying abroad from global perspectives. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (**invited symposium speaker**)
13. **•Kim, H.J.** 2014. Using web-based assignments to enhance student learning and productivity. The use and application of computer technology for teaching, research and extension. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (**invited symposium speaker**)
14. **•Kim, H.J.** and X.X., Li. 2014. Effects of reduced phosphorus on plant growth and flowering of Lantana. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (oral presentation)
15. **•Kim, H.J.**. 2014. Involvement of calcium and boron in the development of brown spots on the leaves of *Oncidium* Sharry Baby. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (oral presentation)
16. **•Pant, A.**, and **H.J. Kim**. 2014. Physical and chemical properties of peat-based substrate as affected by volcanic cinder amendment. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (poster presentation)
17. **•Kim, H.J.**, M.H. Kim and K. Leonhardt. 2014. Influence of soilless substrates on irrigation frequency and plant growth of *Leucospermum*. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (oral presentation)
18. **•Liu, W.**, N. Nian, C. Guo, and **H.J. Kim**. 2014. Comparisons of species diversity of intensive green roofs between Honolulu, USA and Guangzhou, China. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (poster presentation)
19. Lichty, J, P. Singleton, and **•H.J. Kim**. 2014. Substrates affect irrigation frequency and plant growth of potted orchids. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (poster presentation)
20. Li, X.X., and **•H.J. Kim**. 2014. Optimum substrate moisture content improves quality of Impatiens and Coleus. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (poster presentation)
21. Li, X.X., K. Leonhardt, and **•H.J. Kim**. 2014. Variations in flowering characteristics of *Oncidium* intergeneric hybrid orchids. American Society for Horticultural Science, Orlando, FL. July 28-31, 2014. (poster presentation)
22. **•Kim, H.J.** 2014. Sustainable Production Systems for Plant Agriculture. US-Korea Conference, San Francisco, CA. August 6-9, 2014 (oral presentation)
23. **•Kim, H.J.** 2014. Enhancing Sustainable Horticulture Production Systems through Horticulture Research and Global Engagement. Beijing Forestry University, Beijing, China. May 27, 2014. (**invited speaker**)

24. •Chen, L., W. Liu, K. Leonhardt, and **H.J. Kim**. 2014. Evaluation of Postharvest Life of cut *Oncidium* flowers. 26th CTAHR Student Research Symposium, University of Hawaii at Manoa (oral presentation).
25. •Liu, W., N. Nian, C. Guo, and **H.J. Kim**. 2014. Comparisons of green roofs between Honolulu, USA and Guangzhou, China. 26th CTAHR Student Research Symposium, University of Hawaii at Manoa (poster presentation).
26. •Hunefeld, D., K. Leonhardt, and **H.J. Kim**. 2014. Enhancing the rooting of protea cuttings during winter months. 26th CTAHR Student Research Symposium, University of Hawaii at Manoa (poster presentation).
27. •**Kim, H.J.**, P. Singleton, J. Lichty, and A. Kawabata. 2013. Water requirements of tropical ornamental crops. Greensys2013, International Society for Horticultural Science, Jeju, Korea. (oral presentation).
28. Singleton, P., J. Lichty, and • **H.J. Kim**. 2013. Anthurium productivity is limited by water and nutrient availability in volcanic cinder medium. Greensys2013, International Society for Horticultural Science, Jeju, Korea. (poster presentation).
29. •Kim, M.H., X.X. Li, A. Corpuz, D. Hunefeld, K. Leonhardt, and **H.J. Kim**. 2013. Substrate moisture sensor-based irrigation for the greenhouse production of protea. Landscape Industry Council of Hawai'i (LICH) Conference, Honolulu, HI. (poster presentation).
30. •Li, X.X., D. Hunefeld, A. Corpuz, M.H. Kim, **H.J. Kim**. 2013. Knowing the Optimum Phosphorus Level for Plant Helps Save Cost and Environment. Landscape Industry Council of Hawai'i (LICH) Conference, Honolulu, HI. (poster presentation).
31. •Hunefeld, D., A. Corpuz, M.H. Kim, X.X. Li, K. Leonhardt, and **H.J. Kim**. 2013. Enhancing the rooting of protea cuttings. Landscape Industry Council of Hawai'i (LICH) Conference, Honolulu, HI. (poster presentation).
32. **Kim, H.J.**, • M.H. Kim, X.X. Li, and K. Leonhardt. 2013. Temperature affects the development of brown spots on the leaves of *Oncidium* Sharry Baby. American Society for Horticultural Science, Palm Desert, CA. (poster presentation)
33. •Kim, M.H., K. Leonhardt and **H.J. Kim**. 2013. Evaluation of *Oncidium* intergenerics as potential cut flowers. American Society for Horticultural Science, Palm Desert, CA. (poster presentation)
34. •Li, X.X., **H.J.Kim** and H. Liao. 2013. A soybean β -expansin gene *GmEXPB2* involved in root system architecture responses to abiotic stresses in transgenic *Arabidopsis*. American Society for Horticultural Science, Palm Desert, CA. (oral presentation)
35. •Li, X.X., **H.J.Kim** and H. Liao. 2013. Effects of plant hormones on root growth and *GmEXPB2* expression in soybean. American Society for Horticultural Science, Palm Desert, CA. (poster presentation)
36. •Kim, M.H., X.X. Li, K. Leonhardt and **H.J. Kim**. 2013. Temperature affects the development of brown spots on the leaves of *Oncidium* Sharry Baby. 25th CTAHR Student Research Symposium, University of Hawaii at Manoa. (poster presentation)
37. •Kim, M.H., •Y. Karki, K. Leonhardt and **H.J. Kim**. 2013. Evaluation of *Oncidium* intergenerics as potential cut flowers. 25th CTAHR Student Research Symposium, University of Hawaii at Manoa (poster presentation)
38. •Li, X.X., **H.J.Kim** and H. Liao. 2013. Effects of plant hormones on root growth and *GmEXPB2* expression in soybean. 25th CTAHR Student Research Symposium, University of Hawaii at Manoa (oral presentation)
39. •**Kim, H.J.**, G.Moorman, and K. Brown. 2012. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress. American Society for Horticultural Science, Miami, FL. (poster presentation)
40. •**Kim, H.J.** 2012. How to enhance sustainability of ornamental crop production in Hawaii, Floricultural Conference, July, 2012, Hilo, HI (**invited speaker**)
41. •**Kim, H.J.** 2012. Ornamental Horticulture Research: Enhancing sustainability of ornamental crop production in Hawaii, Horticultural Conference, Hawaii Export Nursery Association, Hilo Hawaiian Hotel, July, 2012, Hilo, HI (**invited speaker**)

42. •Garg, A.K., J.K. Kim, T.G. Owens, Y.D. Choi, **H.J. Kim**, W.B. Miller, L.V. Kochian and R.J. Wu, 2012. Regulated overexpression of trehalose biosynthetic fusion gene (TPSP) in cereal plants improves salinity and drought stress tolerance. 1st Biotechnology World Congress, February 14-15, 2012, Dubai, U.A.E. (oral presentation)
43. •**Kim, H.J.**, and W.B. Miller. 2009. Impact of various PGRs on postproduction quality of potted geraniums. SNA Research Conference, Atlanta, GA. (oral presentation)
44. •**Kim, H.J.**, and W.B. Miller. 2008. Preventing Cold-storage-induced Bud Necrosis in ‘Mona Lisa’ Lilies/ Effects of GA₄₊₇ plus BA on Postharvest Quality of Cut Tulips, North American Flowerbulb Wholesalers Association Conference, March, 2008, Ithaca, NY. (oral presentation)
45. •**Kim, H.J.** 2008. Convention of the North American Gladiolus Council, Presentation on the Postharvest Physiology of Cut Flowers, January, 2008, Clarion River Hotel, Rochester, NY (**invited speaker**)
46. • Garg A.K., T.L. Setter, **H.J. Kim**, W.B. Miller, T.G. Owens, L.V. Kochian and R.J. Wu. 2008. Stress-inducible overexpression of *E.coli* trehalose biosynthetic genes in rice and maize plants improves drought tolerance. Gordon Research Conference 2008: Salt & Water Stress In Plants, Big Sky, MT. (poster presentation)
47. •**Kim, H.J.**, and W.B. Miller. 2007. Effects of GA₄₊₇ plus BA on Postharvest Quality of Cut Tulips. Floriculture Field Day, Cornell University, Ithaca, NY. (poster presentation)
48. •**Kim, H.J.**, and W.B. Miller. 2007. Preventing Cold-storage-induced Bud Necrosis in ‘Mona Lisa’ Lilies. American Society for Horticultural Science, Scottsdale, AZ. (oral presentation)
49. •**Kim, H.J.**, and W.B. Miller. 2007. Effects of GA₄₊₇ plus BA on Postharvest Quality of Cut Tulips. American Society for Horticultural Science, Scottsdale, AZ. (poster presentation)
50. •**Kim, H.J.**, and W.B. Miller. 2006. Effects of GA₄₊₇ plus BA on Postproduction Quality of Pot Tulips. 27th International Horticultural Congress, Global Horticulture, Seoul, S. Korea. (oral presentation)
51. •**Kim, H.J.**, C.B. Watkins, and W.B. Miller. 2006. Characterizing Cold-storage-induced Bud Necrosis in ‘Mona Lisa’ Lilies. 27th International Horticultural Congress, Seoul, S. Korea (poster presentation)
52. •**Kim, H.J.**, A. Espenshade, and K.M. Brown. 2006. Effect of pollination on petal abscission in Regal Pelargonium. 27th International Horticultural Congress, Seoul, S. Korea. (poster presentation)
53. •**Kim, H.J.**, and W.B. Miller. 2006. Use of Gibberellin plus Cytokinin (Fascination) to enhance postproduction quality in pot tulips, North American Flowerbulb Wholesalers Association Conference, March 2006, Ithaca, NY. (oral presentation)
54. •**Kim, H.J.**, and W.B. Miller. 2006. Effects of GA₄₊₇ and BA application on postproduction quality in ‘Seadov’ pot tulip flowers. American Society for Horticultural Science, Northeast Region Annual Meeting, Ithaca, NY. (oral presentation)
55. •**Kim, H.J.**. 2004. Ethylene involvement on stress responses in horticultural crops, Cornell University, Ithaca, NY (oral presentation)
56. •**Kim, H.J.**, and K. Brown. 2004. Genetic variation in postproduction quality and ethylene sensitivity of Regal Pelargonium, Penn State University, July 2004, University Park, PA. Presentation to the board members of American Floral Endowment at American Floral Endowment Annual Meeting. (oral presentation)
57. **Kim, H.J.**, R. Craig, and K.M. Brown. 2003. Genetic variation of the Regal Pelargonium in postproduction quality, Department of Horticulture, Penn University, University Park, PA (oral presentation)
58. •**Kim, H.J.**, R. Craig, and K.M. Brown. 2003. Genetic variation in postproduction quality of the Regal Pelargonium. Annual Meeting of the American Society for Horticultural Science, Rhode Island, USA. (oral presentation)
59. •**Kim, H.J.**, E.J. Holcomb, and K.M. Brown. 2003. Lanthanum effects on the gravitropic response of cut tulip flowers, Annual Meeting of the American Society for Horticultural Science, Rhode Island, USA. (poster presentation)

60. •**Kim, H.J.**, H. Ohno, and K. Ohkawa. 2003. Variations in emasculation-induced flower senescence among Cymbidium cultivars, Annual Meeting of the American Society for Horticultural Science, Rhode Island, USA. (poster presentation)
61. •**Kim, H.J.**, R. Craig, and K.M. Brown. 2003. Genetically enhanced postproduction quality of Regal Pelargonium, International Symposium, Postharvest Physiology of Ornamentals, Wageningen, Netherlands. (oral presentation)
62. •**Kim, H.J.**, E.J. Holcomb, and K.M. Brown. 2003. Lanthanum effects on the gravitropic response of cut tulip flowers, International Symposium, Postharvest Physiology of Ornamentals, Wageningen, Netherlands. (poster presentation)
63. Ohkawa, K., H. Ohno, •**H.J. Kim**, A. Tamagawa, and J.N. Suh. 2003. Mechanism of reduction of cut rose flower longevity as affected by brittle leaf formation, International Symposium, Postharvest Physiology of Ornamentals, Wageningen, Netherlands. (poster presentation)
64. **Kim, H.J.**, • C.H. Khang, G. Moorman, S.C. Kang, J.P. Lynch, and K.M. Brown, 2003. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress, American Phytopathological Society, North Carolina, USA. (poster presentation)
65. •**Kim, H.J.**, 2003. Disease development in ethylene insensitive *etr1-1* petunia infected by *Thielaviopsis basicola* under low phosphorus stress, Department of Horticulture, Penn State University, University Park, PA. (oral presentation)
66. •**Kim, H.J.**, J.P. Lynch, and K.B. Brown. 2003. The effects of genetic inhibition of ethylene sensitivity on growth responses to phosphorus deficiency in tomato and petunia. Eighteenth Annual Graduate Exhibition, Penn State University, University Park, PA. (poster presentation)
67. •Brown, K.M., Y.J. Zhang, **H.J. Kim**, and J.P. Lynch. 2003. The ethylene underground. International Horticultural Conference, Toronto, Ontario, Canada. (poster presentation)
68. •**Kim, H.J.**, J.P. Lynch, and K.M. Brown. 2002. The effects of genetic inhibition of ethylene sensitivity on growth responses to phosphorus deficiency in tomato and petunia. Poster presented at Gordon Conference in Postharvest Physiology, Mount Holyoke MA. (poster presentation)
69. •**Kim, H.J.**, J.P. Lynch, and K.M. Brown. 2001. The effects of genetic inhibition of ethylene sensitivity on growth responses to phosphorus deficiency in tomato and petunia. Department of Horticulture, Penn State University, University Park, PA. (oral presentation)
70. •**Kim, H.J.**, K. Ohkawa, Y. Kuda, and J.N. Suh. 1998. Effect of combined pretreatment and stem recutting on cut rose flowers after postharvest pretreatment and simulated transport, Japan. (oral presentation)
71. Suh, J.N., •**H.J. Kim**, Y. Kuda, and K. Ohkawa. 1997. Effect of stem recutting on fresh weight and vase life of cut rose flowers after postharvest pretreatment and simulated transport, Japan. (poster presentation)
72. •Suh, J.N., Y. Kuda, **H.J. Kim**, and K. Ohkawa. 1997. Cultivar difference in senescence symptoms of cymbidium flowers after emasculation, Japan. (poster presentation)