

CURRICULUM VITAE

Bingru Huang

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Education:

Ph.D. 1991, Texas Tech University
M.S. 1987, Shandong Agricultural University, China
B.S. 1984, Hebei Agricultural University, China

Professional Experiences and Appointments:

2012 – Present:
Professor II (Distinguished professor), Department of Plant Biology and Pathology, Rutgers University.

2011 – Present:
Ralph Geiger Endowed Chair, Department of Plant Biology and Pathology, Rutgers University.

2007 – Present
Director, Graduate Program in Plant Biology, Rutgers University.

2005 - 2012
Professor, Department of Plant Biology and Pathology, Rutgers University.

2000 - 2005
Associate professor, Department of Plant Biology and Pathology, Rutgers University.

2000 - 2003
Adjunct professor, Department of Horticulture, Forestry, and Recreation Resources, Kansas State University

1996 - 2000
Assistant professor, Department of Horticulture, Forestry and Recreation Resources, Kansas State University, Manhattan, KS.

1995 - 1996
Adjunct faculty, Mercer University, Macon, GA

1994 - 1996
Post doctoral researcher, Department of Crop and Soil Sciences, University of Georgia

1991 - 1993
Post doctoral researcher, Division of Environmental Plant Biology, Laboratory of Biomedical and Environmental Sciences, University of California, Los Angeles.

1988 - 1991
Graduate research and teaching assistant, Department of Agronomy, Horticulture and Entomology, Texas Tech University.

1987 - 1988
Lecturer, Department of Agronomy, Agricultural University of Shandong.

Professional Services and Activities

Scientific and Professional Society

ASA-CSSA-SSSA

Chair, Excellent Graduate Student Award, 2012

American Society of Agronomy

Screening Editor, 2010 – present

Senior Associate Editor 2009 - present

Associate Editor, 2008 - 2010

Annual Meeting Structure Task Force, 2007 - present

Monographs Publication Committee, 2003 – 2004

American Society of Horticultural Science

Chair, Outstanding Graduate Educator Award Committee, 2011-2012

Outstanding Graduate Educator Award Committee, 2009-2010

Outstanding Research Award committee, 2002 – 2005.

Rhizosphere Working Group, 1999

American Society of Plant Biologist

Committee of graduate student training in plant physiology, 1999 – 2003.

Crop Science Society of America

Chair and organizer, Symposium on Roles of Root Biology in Sustainable Crop Production in Changing Climates. Annual meeting of ASA-CSSA-SSSA, San Antonio, Oct. 16-19, 2011.

Nominee, Chair of C-2 Crop Physiology division. 2011

Coordinator, judging team of graduate student oral presentation competition, annual meeting of ASA-CSSA-SSSA, 2010, Long Beach, Oct. 31 to Nov. 4.

Publications Task Force, 2007 - present

Professional Advancement Committee, 2005 - present

Fellow selection committee, 2004 - 2006.

Organizer, C-2 Crop Physiology Division Symposium, Annual meeting of ASA-SSSA-CSSA, Indianapolis, Indiana. 2006.

Presiding officer, C-2 Crop Physiology Division Symposium, Annual meeting of ASA-SSSA-CSSA, Indianapolis, Indiana. 2006

Review panel, Crop Science journal, 2006

Associate editor. Process approximately 15 manuscripts a year, 2000 – 2006

Presiding officer, C-5 Division, Annual meeting of the society, 2001.

Judge, Outstanding Graduate Paper Award, C-5 Division, Annual meeting CSSA, 2001.

ad hoc committee of Turfgrass Stress Physiology Slide Monograph, 1999 – 2003

Young Crop Scientist Award Committee, 1998 – 2000

Gordon Research Conference: Salt and Water Stress. 2010. Switzerland.

Session discussion leader

Japanese Society for Root Research

Editor, Plant Root, 2006 - present

Scandinavian Plant Physiology Society

Editorial board, Physiologia Plantarum, 2011 - present

Society for the Advancement of Horticulture

Editorial Advisory Panel and Country Editor, Journal of Applied Horticulture, 2004 – present

Indian Journal of Plant Physiology
Overseas Editor, 2010-present

International Journal of Food, Agriculture, and Environment
Country Editor, 2005 – 2007

International Society of Horticultural Science
Scientific committee, 2nd International conference in sports turf, Beijing, China, June 2006.

International Turfgrass Research Society
Co-Editor, turfgrass physiology, Proceedings of 12th ITR conference, Beijing, China, 2011-2013
Co-Editor, turfgrass physiology, Proceedings of 11th ITR conference, Chili, 2009

Soil Science Society of America
Taylor Memorial Lectureship committee, 2002 – present

Grant proposal reviewer
Israel Science of Foundation
Kansas State University, Center of Plant Biotechnology
National Science Foundation of America
National Science Foundation of China
Ohio State University-OARDC
Rutgers University, Center for Turfgrass Science
Texas Tech University, Center of Plant Stress and Biotechnology
United States Department of Agriculture - National Research Initiatives

Manuscript reviewer (Review approximately 40 articles a year)
Agronomy Journal
Australia Journal of Agriculture
Crop Science
Environmental and Experimental Botany
HortScience
India Journal of Plant Science
International Turfgrass Society Research Journal
Journal of American Society of Horticulture
Journal of Experimental Botany
Journal of Plant Growth Regulation
Journal of Plant Physiology
New Phytologist
Physiologia Plantarum
Plant Cell Environment
Plant Cell Physiology
Plant Cell Reports
Plant Growth Regulation
Plant and Soil
Plant Root
Planta

University, College and Department

1. International Excellence Award committee in School of Environmental and Biological Science (SEBS), Rutgers, 2011.
2. Chair, Excellence Fellowship Committee, SEBS, Rutgers, 2011.
3. ad Hoc committee for growth chambers and greenhouses. Department of Plant Biology and Pathology, Rutgers, 2011 – present.
4. International Summer Internship committee, SEBS, Rutgers, 2010
5. External reviewer panel, Turfgrass science curriculum, Texas A&M University. 2009
6. International Program committee, SEBS, Rutgers, 2008 – 2010
7. Advancement and Promotion committee, SEBS, Rutgers, 2008 – 2011
8. Excellence Fellowship Committee, SEBS, Rutgers, 2009.
9. Chair, Excellence Fellowship Committee, SEBS, Rutgers, 2007- 2008.
10. Executive committee, Center for Turfgrass Science, Rutgers. 2007 – present
11. External reviewer panel, Turfgrass program review in Department of Crop Science, Michigan State University. 2007.
12. Advisory Committee, Department of Plant Biology and Pathology, Rutgers, 2007-present
13. Horticulture proposal selection committee, Cook College, Rutgers, 2005
14. FASIP (Faculty Academic Service Increment Program) committee, Department of Plant Biology and Pathology, Rutgers, 2004-2009
15. Academic standard committee, Graduate program in Plant Biology, 2004 – 2007
16. Finance committee for Center for Turfgrass Science, Rutgers, 2004 -present
17. Faculty mentor committee, Department of Plant Biology & Pathology, Rutgers, 2003 – 2007
18. Scholarship committee for Center for Turfgrass Science, Rutgers, 2003 – present
19. Graduate admission committee, Rutgers University, 2003-2006
20. Chair, Faculty promotion/tenure reading committee, 2003.
21. Rutgers University Affirmative Action committee, 2002 - 2008.
22. Chair, Turfgrass symposium committee, Center for Turfgrass Science, Rutgers, 2002
23. Coordinator, Plant Biology Seminar, Graduate program in Plant Biology, Rutgers, 2001 - 2003
24. Turfgrass symposium committee, Center for Turfgrass Science, Rutgers, 2001
25. Editor, Proceedings of Turfgrass Symposium, Rutgers. 2001
26. Annual Conference Committee, College of Agriculture, Kansas State University, 1998-2000
27. Greenhouse committee, Department of Horticulture, Kansas State University, 1997 - 2000
28. Graduate admission committee, Department of Horticulture, Kansas State Univ., 1996 - 2000

Professional Memberships:

American Association for the Advancement of Science
 American Society of Agronomy
 American Society of Plant Physiologist
 American Society of Horticultural Science
 Crop Science Society of America
 International Turfgrass Society
 New Jersey Golf Course Superintendent Association

Honors and Awards:

Awards from National Scientific and Professional Societies

1. Fellow, American Association of the Advanced Science (AAAS), 2011
2. Excellence Award for Educational Materials, Council for Agricultural Science and Technology. 2008.
3. Fellow, Crop Science Society of America, 2004
4. Fellow, American Society of Agronomy, 2003
5. Young Crop Scientist Award, Crop Science Society of America, 1997
6. Alfred Sloan Fellow, 1996
7. Research highlighted in Science Daily, September 2010: American Society for Horticultural Science (2010, April 15). "Common plant growth regulator helps creeping bentgrass weather drought." *ScienceDaily*.
<http://www.sciencedaily.com/releases/2010/04/100415185818.htm>
8. Research featured in Golfweek's SuperNews Cutting Edge, June, 2006. Video clips - <http://supernewsonline.com/index.asp?clip=19>

Outstanding paper awards as senior author, advisor or co-advisor of the student recipient

9. Outstanding Graduate Paper Award, 1st place poster (Emily Merewitz) (senior author and advisor). C-5 division, CSSA annual meeting, 2011.
10. Outstanding Graduate Paper Award, 1st place oral (David Jespersen) (senior author and advisor). C-5 division, CSSA annual meeting, 2011.
11. Outstanding Graduate Paper Award, 1st place poster (James Cross) (co-author, co-advising with William Meyer). C-5 division, CSSA annual meeting, 2011.
12. Outstanding Graduate Paper Award, 1st place poster (Yan Zhao) (senior author and advisor). C-5 division, CSSA annual meeting, 2010.
13. Outstanding Graduate Paper Award, 2nd place oral (Emily Merewitz) (senior author and advisor). C-2 CSSA annual meeting, 2010.
14. Outstanding Graduate Paper Award, 3rd place oral (Priti Senesax) (co-author and co-advising with William Meyer). C-5 CSSA annual meeting, 2010.
15. Outstanding Graduate Paper Award, 2nd place poster (Emily Merewitz) (senior author and advisor). C-5 CSSA annual meeting, 2008.
16. Outstanding Graduate Paper Award, 2nd place oral (Yan Xu) (senior author and advisor). C-5 CSSA annual meeting, 2008.
17. Outstanding Graduate Paper Award, 1st Place Oral (Emily Merewitz) (senior author and advisor), Northeast American Society for Horticultural Science meeting, Jan 3-5, 2008.
18. Outstanding Graduate Paper Award, 3rd Place Oral (Yan Xu) (senior author and advisor), C-5 CSSA annual meeting, 2007
19. Outstanding Graduate Paper Award, 2st Place Oral (Yan Xu) (senior author and advisor), C-5 CSSA Outstanding Overseas Young Scientist Fellowship, National Science Foundation of China, 2007.
20. Outstanding Graduate Paper Award, Industry award (Steve McCann) (senior author and advisor), C-5 CSSA annual meeting, 2006.
21. Best Paper Award, The third annual Essay/Project Contest of "Efficient Water Management and Conservation in Irrigation Systems, Landscape or Agriculture". Irrigation Association Education Foundation. October, 2006. (Authors: Steve McCann and Bingru Huang).

22. Outstanding Graduate Paper Award, 1st Place Oral (Yan Xu) (senior author and advisor), Minority Student Poster Contest, ASA-CSSA-SSSA annual meeting, 2005
23. Outstanding Graduate Paper Award, 1st Place Poster (Michelle DaCosta) (senior author and advisor), C-5 CSSA annual meeting, 2005
24. Outstanding Graduate Paper Award, 3rd Place Poster (Yan Xu) (senior author and advisor), C-5 CSSA annual meeting, 2005
25. Outstanding Graduate Paper Award, 1st place Oral (Michelle DaCosta) (senior author and advisor), C-5 CSSA annual meeting, 2003
26. Outstanding Graduate Paper Award, 1st place Poster (Michelle DaCosta) (senior author and advisor), C-5 CSSA annual meeting, 2003
27. Outstanding Graduate Paper Award, 2nd place Oral (Michelle DaCosta) (senior author and advisor), C-5 CSSA annual meeting, 2002
28. Outstanding Graduate Paper Award, 2nd place Poster (Michelle DaCosta) (senior author and advisor), C-5 CSSA annual meeting, 2002
29. Outstanding Graduate Paper Award, 2nd place Poster (Yiwei Jiang) (senior author and advisor), C-5 CSSA annual meeting, 1999
30. Outstanding Graduate Paper Award, 3rd place Poster (Xiaozhong Liu) (senior author and advisor), C-5 CSSA annual meeting, 1999
31. Outstanding Graduate Paper Award, 2nd place Poster (Xiaozhong Liu) (senior author and advisor), C-5 CSSA annual meeting, 1998

Awards from Regional Professional Associations

32. Recognition Award, New Jersey Turfgrass Association, 2008.

Awards from Universities

33. Outstanding Professor of the Year Award, Department of Plant Biology and Pathology, Rutgers, 2011.
34. Research highlighted in Spotlight – Rutgers School of Environmental and Biological Sciences. “Turfgrass Research Grows from new jersey to Norway and China”. 2009. <http://sebs.rutgers.edu/spotlight/turf-collaboration.asp>.
35. Outstanding Professor of the Year Award, Department of Plant Biology and Pathology, Rutgers, 2008.
36. Research Excellence and Impact Award, School of Environmental and Biological Science, Rutgers, 2007.
37. Wildcat (Kansas State University) Honor Roll, 1998

Awards and Honors from International Institutions and Organizations

38. Honorary professor, Chinese Academy of Science, Wu Han Institute of Botany, 2010
39. Honorary professor, Chinese Academy of Science, Jiang Su Institute of Botany. 2007
40. Outstanding Young Overseas Chinese Investigator Award (National Science Foundation of China). 2007
41. Chang Jiang Scholar, named by Chinese Ministry of Education for distinguished professors, 2006
42. Distinguished professorship, Hebei Agricultural University, China. 2006
43. Distinguished professorship, Shanghai Jiao Tong University, China, 2004

44. Keynote speaker (invited), International Conference for Turfgrass Science in Sports Field, Athens, Greece. 2003
45. Keynote speaker (invited), International Turfgrass Research Conference, Toronto, Canada, 2001.
46. Distinguished professorship, Shandong Agric. Univ. China, 1997
47. Distinguished professorship, Lanzhou University, China, 1996
48. Outstanding Research Project Award, Technology Commission of Shandong Province, China. 1993.

Publications:

Books

Huang, B. 2011. Turfgrass physiology and stress adaptation. Wiley-Blackwell Publisher. (Contract signed in 2009, in writing).

Huang, B. 2006. Plant-Environment Interactions. CRC Press.

Fry, J. and B. Huang. 2004. Applied Turfgrass Science and Physiology. John Wileys & Son Inc., New Jersey.

e-Course CD-ROM:

Hull, R. H. Liu, B, B. MaCarty, B. Huang, and F. Rossi. 2004. Turfgrass Physiology (CD-ROM). Crop Science Society of America. Madison, Wisconsin.

Fry, J., and B. Huang. 2001. Applied Turfgrass Physiology (text book in CD-ROM). Golf Course Superintendent Association of America. Lawrence, Kansas.

Book Review:

Huang, B. 2010. CO₂ enrichment and plant productivity by Mary Beth Kirkham. John Wileys.

Book Chapters: Total of 21 (Corresponding author is underlined)

1. DaCosta, M., and B. Huang. 2010. Heat stress physiology and management. Turfgrass Monograph. ASA. Madison, WS. (n press).
2. DaCosta, M., and B. Huang. 2009. Physiological adaptation of perennial grasses to drought stress. P. 169–190. In: E. De la Barrera and W.K. Smith (eds.). Perspectives in Biophysical Plant Ecophysiology. Universidad Nacional Autónoma de México. (Collaborative role: 50% development, writing, and editing).
3. Xu, Y. and B. Huang. 2008. Hormonal regulation of plant tolerance to high temperature. In: R.M. Mohan (ed.) Research Advances in Crop Science. Global Research Network, Kerala, India. (Collaborative role: 50% development, writing, and editing).
4. Huang, B. 2008. Water use physiology of turfgrass. P. 43-56. In: S. T. Cockerham and B. Leunauer (eds.). Turfgrass Water Conservation. University of California Riverside Press.
5. Huang, B. 2007. Turfgrass water requirements and factors affecting water usage. P. 193-203. In: J. Beard and M. Kenna (eds.). Water Quality and Water Quantity Issues for Turfgrasses in Urban Landscapes. Council for Agricultural Science and Technology.

6. McCann, S.E., and B. Huang. 2007. Turfgrass drought stress physiology and irrigation management. P. 431-445. In: M. Pessaraki (ed.). Handbook of Turfgrass Management and Physiology. CRC Press. (Collaborative role: 60% development, writing, and editing).
7. Merewitz, E., and B. Huang. 2007. Biotechnology and genetic improvement of grass tolerance to heat/drought stress. P. 105-125. In: D. Thangadurai, W. Tang, S.Q. Song (eds.). Plant Stress and Biotechnology. Oxford Book Company, Jaipur, India. (Collaborative role: 60% of development, writing, and editing).
8. Huang, B., and Y. Xu. 2006. Recent research advances in drought and heat stress physiology for turfgrass. P. 38-45. In Z. Chen and H. Zhou (eds.). Research Advances in Turfgrass Science. Chinese Forestry Press, Beijing, China.
9. Huang, B. 2006. Cellular membranes in plant responses to environmental stresses. P. 1-25. In: B. Huang (ed.). Plant-Environment Interaction. CRC Press.
10. Bonos, S., and B. Huang. 2006. Molecular approaches to improve abiotic stresses of plants. P. 357-376. In: B. Huang (ed.). Plant-Environment Interaction. CRC Press. (Collaborative role: 50% of development, writing, and editing).
11. Rachmilevitch, S., M. DaCosta, and B. Huang. 2006. Physiological and biochemical indicators for abiotic stress tolerance. P. 321-356. In: B. Huang (ed.). Plant-Environment Interaction. CRC Press. (Collaborative role: 40% of development, writing, and editing).
12. Wu, Y., J. Ballif, and B. Huang. 2006. Molecular mechanisms in hormone regulation of drought tolerance. P. 101-120. In: B. Huang (ed.). Plant-Environment Interaction. CRC Press. (Collaborative role: 30% of development, writing, and editing).
13. Huang, B., and X. Liu. 2003. Evaluation of root growth and mortality using minirhizotrons. P. 27-40. In: VanToai (eds). Digital Imaging and Spectral Techniques: Applications to Precision Agriculture and Crop Physiology. ASA-CSSA-SSSA, Madison, WI. (Collaborative role: 70% of development, writing, and editing).
14. Huang, B., and Y. Jiang. 2001. Physiological and biochemical responses of plants to drought and heat stress. P. 287-300. In: M. Kang (ed.) Crop Improvement in 21st Century. Harworth Press, New York. (Collaborative role: 90% of development, writing, and editing).
15. Huang, B. 2000. The role of root morphological and physiological characteristics in drought resistance of plants. P. 39-64. In: R. Wilkenson (ed). Plant-Environment Interaction. Mercel Dekker.
16. Huang, B., and D.M. Eissenstat. 2000. Root plasticity in exploiting water and nutrient heterogeneity. P. 111-133. In: R. Wilkenson (ed). Plant-Environment Interaction. Mercel Dekker. (Collaborative role: 80% of development, writing, and editing).
17. Huang, B. 2000. Waterlogging and its interaction with other environmental factors on plant growth. P. 263-282. In: R. Wilkenson (ed). Plant-Environment Interaction. Mercel Dekker.
18. Huang, B., and J.D. Fry. 1999. Turfgrass Evapotranspiration. P. 317-334. In: M.B. Kirkham (ed.). Water Use in Crop Production. Food Products Press. (Collaborative role: 80% of development, writing, and editing).
19. Huang, B. 1997. Mechanisms of plant resistance to waterlogging. P. 59-81. In: A. Basra (ed). Mechanisms of Environmental Stress Resistance in Plants. Harwood Academic Publisher, The Netherland.

20. Johnson, J.W., and B. Huang. 1996. Responses of triticale and wheat to hypoxia. In: H.P. Guedes, N Darvey and V.P. Carnide (eds.). *Developments in Plant Breeding: Triticale - Today and Tomorrow*. (Collaborative role: 60% of development, writing, and editing).
21. Moreshet, S., B. Huang, and M. Huck. 1995. Water permeability of plant roots. P. 659-677. In: Y. Waisel et al. (ed). *Plant Roots: The Hidden Half*. 2nd. Ed. Marcel Dekker, New York. (Collaborative role: 30% of development, writing, and editing).

Refereed Journal Articles (published and in press): Total of 185

(Corresponding author underlined)

Accepted or in press (9)

Hu, L., Z. Wang, and B. Huang. 2012. Growth and physiological recovery of Kentucky bluegrass (*Poa pratensis*) from drought stress as affected by a synthetic cytokinin 6-benzylaminopurine. *Crop Sci.* (tentatively accepted 3/23).

Merewitz, E., F. Belanger, S. Warnke, and B. Huang. 2012. Identification of Quantitative Trait Loci (QTL) Linked to Drought Tolerance in a Colonial x Creeping Bentgrass Hybrid Population. *Crop Sci.* (accepted. 3/23).

Yu, J., L. Chen, M. Xu, and B. Huang. 2012. Effects of elevated CO₂ on physiological responses of tall fescue (*Festuca arundinacea*) to elevated temperature, drought stress, and the combined stresses. *Crop Sci.* (tentatively accepted. 3/1).

Yang, Z., J. Yu, E. Merewitz, and B. Huang. 2012. Differential effects of abscisic acid and glycine betaine on physiological responses to drought and salinity stress for two perennial grass species. *J. Am. Soc. Hort. Sci.* (tentatively accepted. 3/1).

Xu, C. and B. Huang. 2012. Differential proteomic responses to drought or heat alone and the combined stresses in Kentucky bluegrass cultivars contrasting in stress tolerance. *Crop Science* (tentatively accepted Jan. 6, 2012).

Huang, B. 2012. Root carbon and protein metabolism associated with heat tolerance. *J. Exp. Bot.* (Accepted Jan. 5, 2012).

Merewitz, E., H. Du, W. Yu, and Y. Li, T. Gianfagna, and B. Huang. 2012. Elevated cytokinin content in ipt-transgenic creeping bentgrass promotes drought tolerance through regulating metabolite accumulation. *J. Exp. Bot.* 63:1315–1328.

Liu, Y. Hongmei Dua, Xiaoxia Hea, Bingru Huang and Zhaolong Wang. 2012. Identification of differentially-expressed salt-responsive proteins in roots of two perennial grass species contrasting in salinity tolerance. *Journal of Plant Physiology* 169:117-126.

Peng, Y., C. Xu, L. Xu, and B. Huang. 2012. Improved heat tolerance through drought preconditioning associated with changes in lipid composition, antioxidant enzymes and protein expression and in kentucky bluegrass. *Crop Science* 52:807-817

2011 (15)

Xu, C., Z. Jiang, and B. Huang. 2011. Nitrogen deficiency-induced protein changes in immature and mature leaves of creeping bentgrass. *J. Amer. Soc. Hort. Sci.* 136:399–407.

Jiang, Z., C. Xu, and B. Huang. 2011. Enzymatic metabolism of nitrogen in leaves and roots of creeping bentgrass under nitrogen deficiency conditions. *J. Am. Soc. Hort. Sci. J.* 136:1–9.

Koch, M., B. Huang, and S. Bonos. 2011. Salinity tolerance of Kentucky bluegrass cultivars and selections using an overhead irrigated screening technique. *Crop Sci.* 51:2846-2857.

Xu, L., L. Han, and B. Huang. 2011. Antioxidant enzyme activities and gene expression in drought-stressed Kentucky bluegrass. *J. Amer. Soc. Hort. Sci.* 136:247–255. [JASHS Top 10 Articles Read in August 2011](#), [JASHS Top 10 Read in September 2011](#)

Merewitz, EM., T. Gianfagna and B. Huang. 2011. Cytokinin-regulation of protein accumulation in leaves and roots associated with improved drought tolerance in creeping bentgrass expressing a senescence-activated gene (SAG12-ipt) for cytokinin synthesis. *J. Exp. Bot.* doi: 10.1093/jxb/err166. (Published August 9).

Rotter, D. E. Merewitz, B. Huang, and F. Belanger. 2011. Chromosomal regions associated with dollar spot resistance in colonial bentgrass. *Plant Breeding*. Doi:10.1111/j.1439-0523.2011.01891.x.

Zhou, P. Q. Zhu, J. Xu., and B. Huang. 2011. Cloning and characterization of a gene, AsEXP1, encoding expansin proteins inducible by heat stress and hormones in creeping bentgrass. *Crop Sci.* 2011 51:333-341

Xu, L., L. Han, and B. Huang. 2011. Membrane fatty acid composition and saturation levels associated with leaf dehydration tolerance and post-drought rehydration in Kentucky bluegrass. *Crop Sci.* 2011 51:273-281

Zhong, D., H. Du, Z. Wang, and B. Huang. 2011. Genotypic variation in fatty acid composition and unsaturation levels in bermudagrass associated with leaf dehydration tolerance. *J. Am. Soc. Hort. Sci.* 136:35-40. [JASHS Top 10 Articles Read in January 2011](#), [JASHS Top 10 Articles Read in February 2011](#)

Merewitz, E. T. Gianfagna, and B. Huang. 2011. Photosynthesis, water use, and root viability under water stress as affected by expression of SAG12-ipt controlling cytokinin synthesis in a perennial grass species. *J. Exp. Bot.* 62: 383-395

Liu, Y., H. Du, K. Wang, B. Huang and Z. Wang. 2011. Differential Photosynthetic Responses to Salinity Stress between two Perennial Grass Species Contrasting in Salinity Tolerance. *HortScience*. 46:311-316. [Top 10 HortScience Articles Read in February 2011](#)

Du, H., Z. Wang, W. Yu, and B. Huang. 2011. Differential metabolic responses of perennial grass species *Cynodon transvaalensis* X *Cynodon dactylon* (C4) and *Poa Pratensis* (C3) to heat stress. *Physiologia Plantarum* 141:251-264

Xu, Y., C. Zhan, and B. Huang. 2011. Heat shock proteins in association with heat tolerance in grasses. *International Journal of Proteomics*. Vol. 2011. 11 pages. doi:10.1155/2011/529648.

Espevig, T., M. DaCosta, L. Hoffman, T.S. Aamlid, A.M. Tronsmo, B.B. Clarke, and B. Huang. 2011. Freezing tolerance and carbohydrate changes of two *Agrostis* species during cold acclimation. *Crop Sci.* 51:1188-1197.

Xu, C., and B. Huang. 2011. Proteins and metabolites regulated by trinexapac-ethyl in relation to drought tolerance in Kentucky bluegrass. *J. Plant Growth Regulation*. DOI 10.1007/s00344-011-9216-x.

Zhao, Y. H. Du, and B. Huang. 2011. Identification of proteins associated with water deficit in C₄ perennial grass species [*Cynodon dactylon* (L.) Pers. × *C. Transvaalensis* Burt Davy] and (*C. dactylon*). *Physiologia Plantarum* 140:41-55.

2010 (16)

Zhang, Y., C. Liang, Y. Xu, T. Gianfagna, and B. Huang. 2010. Effects of ipt gene expression on leaf senescence induced by nitrogen or phosphorus deficiency in creeping bentgrass. *J. Am. Soc. Hort. Sci.* 135:108–115. [JASHS Top 10 Articles Read In May 2010](#)

He Y. and B. Huang. 2010. Differential responses to heat stress in activities and isozymes of four antioxidant enzymes for two cultivars of Kentucky bluegrass contrasting in heat tolerance. *J. Am. Soc. Hort. Sci.* 135:116–124. [JASHS Top 10 Articles Read In May 2010](#).

Hu L., Z. Wang, H. Du., and B. Huang. 2010. Differential accumulation of dehydrins in response to water stress for hybrid and common bermudagrass genotypes differing in drought tolerance. *J. Plant Physiol.* 167: 103-109.

Fu, J., B. Huang, and J. Fry. 2010. Osmotic potential, sucrose level and activity of sucrose metabolic enzymes in tall fescue in response to deficit irrigation. *J. Am. Soc. Hort. Sci.* 135:506–510. [JASHS Top 10 Articles Read in December 2010](#), [JASHS Top 10 Articles Read in November 2010](#).

Bernstein, N., M. Shores, Y. Xu, and B. Huang. 2010. Involvement of the plant antioxidative response in the differential growth sensitivity to salinity of leaves vs. roots during cell development. *Free Radical Biology and Medicine* 49: 1161-1171.

Xu, C., and B. Huang. 2010. Comparative analysis of drought responsive proteins in Kentucky bluegrass cultivars contrasting in drought tolerance. *Crop Sci.* 50:2543-2552

Chai, Q., E. Merewitz, F. Jin, and B. Huang. 2010. Growth and physiological traits associated with drought survival and post-drought recovery in perennial turfgrass species. *J. Am. Soc. Hort. Sci.* 135:125–133. [JASHS Top 10 Articles Read In May 2010](#).

Merewitz, E., T. Gianfagna, and B. Huang. 2010. Effects of *SAG12-ipt* and *HSP18.2-ipt* expression on cytokinin production, root growth and leaf senescence in creeping bentgrass exposed to drought stress. *J. Am. Soc. Hort. Sci.* 135: 230 – 239

Sun, J., H. Li, Y. Lou, and B. Huang. 2010. Physiological response of *Zoysia japonica* from different latitudes to chilling stress. *Grassland and Turfgrass Science.* 30:6-14.

Xu, C., and B. Huang. 2010. Differential proteomic responses to water stress induced by PEG in two creeping bentgrass cultivars differing in stress tolerance. *J. Plant Physiol.* 167:1477-1485

Xu, Y., T. Gianfagna, and B. Huang. 2010. Proteomic changes associated with expression of a gene (*ipt*) controlling cytokinin synthesis for improving heat tolerance in a perennial grass species. *J. Exp. Bot.* 61: 3273-3289.

Xu, C. and B. Huang. 2010. Differential proteomic response to heat stress in thermal *Agrostis scabra* and heat-sensitive *Agrostis stolonifera*. *Physiol. Plant.* 132:192-204.

Xu, C., T. Sibicky, and B. Huang. 2010. Proteomic profiling and identification of differential salt-responsive proteins in leaves and roots in two cultivars of creeping bentgrass differing in salinity tolerance. *Plant Cell Reports.* 29:595-615.

Hu, L., Z. Wang, and B. Huang. Diffusion limitations and metabolic factors associated with inhibition and recovery of photosynthesis from drought stress in a C3 perennial grass species. *Physiol. Plant.* 13:93-106.

Xu, Y. and B. Huang. 2010. Responses of creeping bentgrass to trinexapac-ethyl and biostimulants under summer stress. *HortScience.* 45:125–131. 2010.

Merewitz, E., W. Meyer and B. Huang. 2010. Drought stress responses and recovery of Texas x Kentucky Hybrids and Kentucky bluegrass genotypes in temperate climate conditions *Agron. J.* 102:258-268.

2009 (11)

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Bian, X., E.B. Merewitz, and B. Huang. 2009. Effects of Trinexapac-ethyl on drought responses in creeping bentgrass associated with water use and osmotic adjustment. *J. Am. Hort. Sci.* 134:505–510. [JASHS Top 10 Articles Read in December 2009](#), [JASHS Top 10 Articles Read in February 2010](#), [JASHS Top 10 Articles Read in October 2010](#).

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1. Juan Pablo Giraldo, Yan Xu, Bingru Huang, David Granot, and Noel Michele Holbrook. 2011. Leaf hydraulic regulation of the timing of leaf senescence via xylem-transported cytokinins in tomato (*Solanum lycopersicum*). *Plant Physiol.*
2. Zhao, Y, H. Du, Z. Wang, and B. Huang. 2011. Differential metabolic responses to drought stress in hybrid and common bermudagrass associated with drought tolerance. *Plant Cell Physiology.*
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Manuscripts in preparation

1. Giraldo, J.P., Y. Xu, B. Huang, N. M. Holbrook. Xylem-transported xytokinins influence the onset of leaf senescence in the tropical tree *Anacardium excelsum*. (in the stage of final revision).
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3. Xu, Y., and B. Huang. Comparative analysis of metabolic profilings from geothermal *Agrostis scabra* and turf-type *Agrostis stolonifera* subjected to heat stress. (in the stage of final revision).
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 36. Xu, Chenping; Huang, Bingru. 2008. Proteomic Response to Heat Stress in the Roots of *Agrostis* Grass Species Contrasting in Heat Tolerance. [Abstracts][GSA/SSSA/ASA/CSSA/GCAGS/HGS]. p. [41687].
 37. Mahalaxmi Veerasamy and B. Huang. Antioxidant and Protein Metabolism Associated with Genetic Variation in Salinity Tolerance among Cool-season Turfgrass Species. Nov. 4-8, New Orleans. 2007.
 38. Yan Xu and B. Huang. Antioxidative Response of Transgenic Creeping Bentgrass Overexpressing Cytokinin Under Heat Stress. Nov. 4-8, New Orleans. 2007.
- Page 29 of 46
39. Stephen McCann and Bingru Huang. Cultivar Variation in Rooting Characteristics Associated with Drought Tolerance in Creeping Bentgrass. Nov. 4-8, New Orleans. 2007.
 40. Robert Shortell, William A. Meyer, Bingru Huang, and Stacy A. Bonos. Genetic Variation in Rooting of Kentucky Bluegrass (*Poa pratensis* L.) Cultivars and Selections Under Heat Stress. Nov. 4-8, New Orleans. 2007.
 41. Jiang Tian, Faith Belanger, and Bingru Huang. Identification of Heat Stress Responsive Genes in a Thermal Bentgrass Species. Nov. 4-8, New Orleans. 2007.
 42. Emily Merewitz, Bingru Huang, Stacy A. Bonos, and Faith Belanger. Identification of Quantitative Trait Loci (QTL) Associated with Drought Tolerance in Creeping Bentgrass. Nov. 4-8, New Orleans. 2007.
 43. Bingru Huang and Shimon Rachmilevitch. Lipid Profiling Associated with Root Thermotolerance in *Agrostis* Species Contrasting in Heat Tolerance. Nov. 4-8, New Orleans. 2007.
 44. Yan Xu and Bingru Huang. Proteomic Alteration Related to Cytokinin Regulation of Leaf Senescence and Heat Tolerance in Transgenic Creeping Bentgrass. Nov. 4-8, New Orleans. 2007.
 45. Yan Xu, Jinpeng Xin, Eddie Zhang, Thomas Gianfagna, and Bingru Huang. Characteristics of SAG12-IPT Transgenic Creeping Bentgrass. November 10-13, 2006 – Indianapolis
 46. Bingru Huang and Emily B. Merewitz. Drought Tolerance and Water-Saving Characteristics of Kentucky and Hybrid Bluegrasses. November 10-13, 2006 – Indianapolis

47. Yan Xu and Bingru Huang. Effects of Exogenous Cytokinin and Ethylene Inhibitor on Heat-Induced Leaf Senescence for Creeping Bentgrass. November 10-13, 2006 – Indianapolis
48. Stephen McCann and Bingru Huang. Efficient Irrigation Scheduling and Crop Water Stress Index for Fairway Bentgrass. November 10-13, 2006 – Indianapolis
49. Bingru Huang. Exploring Mechanisms of Heat Tolerance in Perennial Grass Species from Whole-plant to Molecular Biology. November 10-13, 2006 – Indianapolis
50. Bingru Huang. Heat-inducible Gene Expression Associated with Stress Tolerance in *Agrostis* species. November 10-13, 2006 – Indianapolis
51. Stephen E. McCann and Bingru Huang. Physiological Effects of Trinxapac-ethyl on Bentgrass Adaptation to Summer Stress. November 10-13, 2006 – Indianapolis
52. Michelle DaCosta and Bingru Huang. Physiological Mechanisms Associated With Bentgrass Species Variation in Drought Resistance. November 10-13, 2006 – Indianapolis
53. Huang, B. 2006. Exploring mechanisms of perennial grass tolerance to heat stress. *Annual Meeting Abstracts* [ASA/CSSA/SSSA/CSSS]. 2006, p. [1]. Indianapolis, IN: 12-16 November.
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57. Xu, Jichen; Huang, Bingru; Belanger, Faith. 2005. Differential expression of genes associated with thermotolerance in *Agrostis*. *Annual Meeting Abstracts*. [ASA/CSSA/SSSA/CSSS]. Salt Lake City, UT: 7-10 November, 2005.
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59. DaCosta, Michelle; Huang, Bingru. 2005. Carbohydrate allocation and accumulation in response to drought and recovery in three bentgrass species. *Annual Meeting Abstracts*. [ASA/CSSA/SSSA/CSSS]. Salt Lake City, UT: 7-10 November, 2005.
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63. Pote, John; Huang, B. 2004. Root physiology in turf-type and geothermal *agrostis* species. *Annual Meeting Abstracts* [ASA/CSSA/SSSA/CSSS]. Seattle, WA.
64. Lyons, Eric M.; Pote, J.; Huang, B. 2004. The energy balance of creeping bentgrass and a thermophilic bentgrass in response to high soil temperatures. *Annual Meeting Abstracts* [ASA/CSSA/SSSA/CSSS]. Seattle, WA.
65. DaCosta, M., and B. Huang. 2004. The role of the antioxidant defense response in bentgrass species exposed to drought stress. *Annual Meeting Abstracts* [ASA/CSSA/SSSA/CSSS]. Seattle, WA.

66. Den Haan, Joost; Meyer, W. A.; Huang, B.; Bonos, S. A.; Lyons, E.; DaCosta, M.; Smith, D. A.; French, J.; Murphy, J. A.; Cesped-Ruiz, R. 2004. Evaluation of morphological and physiological aspects of *loium perenne* cultivars associated with wear tolerance. *Annual Meeting Abstracts [ASA/CSSA/SSSA/CSSS]*. Seattle, WA.
67. Huang, B.; DaCosta, Michelle. 2004. Hormone metabolism and growth characteristics associated with survival and recovery from drought in three bentgrass species. *Annual Meeting Abstracts [ASA/CSSA/SSSA/CSSS]*. Seattle, WA.
68. Xu, Jichen; Huang, B.; Belanger, F. 2004. Identification of heat-inducible and heat-tolerance genes in bentgrass. *Annual Meeting Abstracts [ASA/CSSA/SSSA/CSSS]*. Seattle, WA.
69. He, Yali; Liu, X.; Huang, B. 2004. Protein induction and degradation during heat acclimation and heat stress for creeping bentgrass. *Annual Meeting Abstracts [ASA/CSSA/SSSA/CSSS]*. Seattle, WA.
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71. Fu, J., J. Fry, and B. Huang. 2003. Root growth dynamics in response to deficit irrigation in tall fescue. *Agron. Abst.*
72. Dacosta, M., and B. Huang. 2003. Physiological responses of creeping and velvet bentgrasses to drought stress. *Agron. Abst.*
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74. Fu, D.; Huang, B.; Muthukrishnan, S.; Liang, G. H. 2003. Exogenous expression of barley HVA1 gene improves drought tolerance in creeping bentgrass. *Agron. Abst.*
75. Huang, B.; Larkindale, J. 2003. Changes in lipid composition and saturation levels in relation to heat tolerance for creeping bentgrass. *Agron. Abst.*
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77. Liu, X.; Huang, B. 2003. Root factors controlling responses of creeping bentgrass to high soil temperature. *Agron. Abst.*
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79. Watkins, E.; Huang, B.; Meyer, W. A. 2003. Effects of heat and drought stress on tufted hairgrass. *Agron. Abst.*
80. Abraham, E. M.; Huang, B.; Wang, Z.; Bonos, S. A.; Meyer, W. A. 2002. Physiological responses of Texas Bluegrass x Kentucky Bluegrass hybrids to drought and heat stress. *Agron. Abst.*
81. DaCosta, M.; Huang, B. 2002. Effects of fungal endophytes on drought response of cool-season turfgrasses. *Agron. Abst.*
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83. Fu, J.; Fry, J.; Huang, B. 2002. Growth, carbon metabolism, and water use efficiency of Tall Fescue and Zoysia during deficit irrigation. *Agron. Abst.*
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85. Pote, J.; Huang, B. 2002. Soil temperature thresholds causing heat injury in creeping bentgrass. *Agron. Abst.*
86. Pote, J.; Huang, B. 2002. Protein changes in response to increasing temperatures for creeping bentgrass. *Agron. Abst.*
87. Wang, Z.; Huang, B.; Pote, J. 2002. Physiological responses to simultaneous drought and heat stress and recovery for Kentucky Bluegrass. *Agron. Abst.*
88. Watkins, E.; Huang, B.; Meyer, W. A. 2002. Rooting characteristics for tall fescue cultivars differing in morphology. *Agron. Abst.*

89. Yu T.T., B. Huang, and G.H. Liang. 2001. Over-expression of a rice chitinase gene in Creeping Bentgrass for disease resistance. Agron. Abs
90. Fu, J. F.; Huang, B. 2001. Growth and physiological response of creeping bentgrass to changes in night temperatures. Agron. Abs.
91. Huang, B.; Liu, X. 2001. Root production, growth, and mortality of creeping bentgrass as affected by mowing height. Agron. Abs.
92. Jiang, Y.; Huang, B. 2001. Protein alterations in tall fescue in response to drought stress and abscisic acid. Agron. Abs.
93. Wang, Z.; Huang, B. 2001. Drought resistance of Kentucky bluegrass in relation to ABA accumulation. Agron. Abs.
94. Xu, Q. Z.; Huang, B. 2001. The relative importance of daytime vs nighttime soil temperature to creeping bentgrass. Agron. Abs.
95. Huang, B., and X. Liu. 2000. Effects of root-zone cytokinin application on creeping bentgrass tolerance to heat stress. Agron. Abs. 154.
96. Xu, Q., and B. Huang. 2000. Responses of shoot and root growth of creeping bentgrass to reduction in soil temperature. Agron. Abs. 153.
97. Xu, Q., and B. Huang. 2000. Seasonal changes of activities of antioxidant enzymes in creeping bentgrass. Agron. Abs. 153.
98. Jiang, Y., and B. Huang. 2000. Physiological mechanisms associated with drought-enhanced heat tolerance in Kentucky bluegrass. Agron. Abs. 154.
99. Jiang, Y., and B. Huang. 2000. Effects of calcium on antioxidant metabolism and water relations associated with heat tolerance in two cool-season grasses. Agron. Abs. 154.
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104. Huang, B., and X. Liu. 2000. Effects of root-zone cytokinin application on creeping bentgrass tolerance to heat stress. Agron. Abs.. P. 154.
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106. Xu, Q., and B. Huang. 2000. Responses of shoot and root growth of creeping bentgrass to reducing soil temperature. Agron. Abs. P. 153.
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112. Huang, B., and Q. Xu. 2000. Root mortality and nutrient uptake of creeping bentgrass in response to differential root and shoot temperatures. HortScience. P. 414.
113. Huang, B. and H. Gao. 1999. Gas exchange and water relations of diverse tall fescue cultivars in response to drought stress. HortScience. P. 490.

114. Huang, B., X. Liu, and J. D. Fry. 1999. Summer bentgrass decline as affected by mowing and irrigation. *Agron. Abs.* P.129.
115. Liu, X. and B. Huang. 1999. Genetic and seasonal variation in turf and root growth of creeping bentgrass. *Agron. Abs.* P. 127.
116. Liu, X. and B. Huang. 1999. Responses of growth and carbohydrate status of creeping bentgrass to heat stress. *Agron. Abs.* P. 129.
117. Fu, J., and B. Huang. 1999. Morphological, anatomical, and physiological characteristics of leaves associated with drought resistance. *Agron. Abs.* P. 129.
118. Jiang, Y., and B. Huang. 1999. Interactive effects of drought and heat stress on Kentucky bluegrass. *Agron. Abs.* P. 128.
119. Huang, B., and J. Fu. 1999. Carbon metabolism of tall fescue and Kentucky bluegrass as affected by drought stress. *Agron. Abs.* P. 90.
120. Yu, T., H.N. Trick., B. Huang., and G. Liang. 1999. Agrobacterium-mediated transformation of creeping bentgrass. *Agronomy Abstract.* P. 157.
121. Xu, Q., and B. Huang. 1999. Shoot and root responses of creeping bentgrass to root-zone temperature modification. *Agron. Abs.* P. 128.
122. Liu, X and B. Huang. 1998. Antioxidant enzyme activities in relation to heat tolerance in creeping bentgrass. *Agron. Abs.* p. 134.
123. Huang, B., Q. Xu, and J.D. Fry. 1998. Temperature effects on carbohydrate metabolisms and root activities in creeping bentgrass. *Agronomy Abstract.* p. 134.
124. Huang, B. 1998. Water relations and root activity of buffalograss and zoysiagrass in response to localized drought stress. *Agron. Abs.* p. 134.
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127. Huang, B. and J. Johnson. 1996. Carbon relations of two wheat genotypes as affected by hypoxia. *Agron. Abs.* 141.
128. Huang, B, J. W. Johnson, and D. S. NeSmith. 1995. Response of wheat genotypes to root-zone CO₂ enrichment. *Agron. Abs.* p.103.
129. Johnson, J. W., B. Huang, J. E. Box, and D. S. NeSmith. 1995. Sensitivity to ethylene of wheat genotypes differing in waterlogging tolerance. *Agron. Abs.* P. 103.
130. Huang, B., D. C. Bridges, D. S. NeSmith, S. Moreshet, and J. W. Johnson. 1994. Biomass partitioning and root development of peanut in response to shading. *Agron. Abs.* p. 145.
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132. Huang, B., J. W. Johnson, D. S. NeSmith, and D. C. Bridges. 1993. Physiological and growth responses of wheat seedlings to waterlogging. *Agron. Abs.* p.114.
133. Huang, B., G. B. North, and P. S. Nobel. 1993. Carbon balance and water relations of rhizosphere for cacti. *Abs. Ecol. Soc. Am.* p.102.
134. Huang, B. and P. S. Nobel. 1992. Changes in water relations and structure for roots of *Agave deserti* during drought-induced abscission. *Abs. Ecol. Soc. Am.* p. 214.

Invited Seminar Presentations and Lectures: - 117

2012

1. Managing grass roots for healthy turf. Educational seminar, Golf Course Association of New Jersey. Rocky Brook Golf Club. March 6.
2. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, Las Vegas, NV. February 24-30.

2011

3. Life in a regulated world: Impact of PGRs on turfgrass physiology. New Jersey Green Expo. Atlantic City, NJ. Dec. 6-8.
 4. Linking root “omics” to plant adaptation to heat stress. Symposium on “Roles of Root Biology in Sustainable Crop production and Changing Environments” Annual meeting of ASA-CSSA-SSSA. San Antonio, TX. Oct. 16-19.
 5. Recent advances in turfgrass stress physiology and management-Keynote. First Asia Turfgrass Society Conference, Seoul, Korea. August 26-27.
 6. Water stress physiology and irrigation management for water conservation. New Zealand Sport Turf Institute. Auckland, New Zealand. July 26.
 7. Root thermotolerance mechanisms from physiology to molecular biology. International Botanical Congress. Melbourne, Australia. July 23-30.
 8. Cytokinin-regulated drought tolerance mechanisms through biotechnology and “omics” analysis. China Agricultural University, June 28; He Bei Academy of Agricultural Science, July 6; Lanzhou University, July 8.
 9. Writing scientific publications. Shandong Agricultural University. July 5.
 10. Recent advances in turfgrass physiology and their implications for golf course maintenance. Scandinavian Turfgrass and Environment Research Foundation and Norwegian Golf Union. April 2-6.
 11. Plant growth regulator use in turfgrass management. New England Turfgrass Conference. Providence, RI. March 9-11.
 12. Summer bentgrass management. New England Turfgrass Conference. Providence, RI. March 9-11.
 13. Water conservation strategies in turfgrass management. New England Turfgrass Conference. Providence, RI. March 9-11.
 14. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, Orlando, FL, February 8-12.
 15. Photosynthesis responses and effects of irrigation on cranberry heat tolerance. American Cranberry Growers Association. Rutgers EcoComplex, Bordentown, NJ. Jan. 27.
 16. Effects of irrigation on turfgrass physiology. Pennsylvania Turfgrass Conference. King of Prussia, Pennsylvania, Jan. 13.
- 2010
17. Pigments and Colorants Associated with Fungicides: Effects on Plant Health and Disease Control. North Eastern Division American Phytopathological Society Annual Meeting. Northampton, Massachusetts. October 27-29, 2010.
 18. Exploring mechanisms of heat tolerance in cool-season turfgrass. Wuhan Institute of Botany, Chinese Academy of Science. Wuhan, Hubei, May 29.
 19. Exploring cool-season grass heat tolerance from whole plant to molecular biology. City University of New York, New York, April 19.
 20. Water conservation strategies in turfgrass management. Long Island Golf Course Superintendent Association. East Norwich, NY. March 18.
 21. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, San Diego, CA, February 8-11.
- 2009
22. Identification of proteins and genes associated with heat tolerance in bentgrass. The 18th Annual Symposium of Center for Turfgrass Science, Rutgers University, January.
 23. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, Orlando, Florida, February.
 24. Advances in heat tolerance research in cool-season turfgrass species. Shandong University, Jinan, Shandong. March.
 25. Mechanisms of root thermotolerance from whole-plant to molecular biology. Annual Symposium of Plant Biology, University of Missouri. May 26-29.
 26. Mechanisms of heat tolerance in cool-season grass species. Institute of Grassland. Chinese Agricultural Academy of Science. Beijing, July.

27. Differential Proteomic responses to drought stress in C3 and C4 perennial grass species. III International Drought Conference, Shanghai, China. October 11-16.
28. Bentgrass Green Summer Decline: Causes and Cures. 2009 Crystal Conference and Golf Classic, New Jersey Golf Course Superintendent Association. Nov. 10-11. Vernon, NJ.

2008

29. Exploring mechanisms of heat tolerance in perennial grasses from whole-plant to molecular biology, Department of Crop Science, North Carolina State University, November.
30. Advanced stress management strategies for cool-season turfgrass. Canadian Golf Association. Calgary, Canada.
31. Advanced stress management strategies for cool-season turfgrass. Canadian Golf Association Vancouver, Canada. November.
32. A holistic approach to mechanisms of heat tolerance in cool-season grasses. Department of Crop and Soil, Michigan State University, October.
33. Cytokinin regulation of drought tolerance in creeping bentgrass through transformation with a gene controlling cytokinin synthesis. Gordon Research Conference: Salt and Water Stress in Plants. Big Sky, MT. September. 7-12.
34. Recent research in improving creeping bentgrass summer performance. Toyo Green, Tokyo, Japan, August.
35. Mechanisms of root thermotolerance in perennial grass species from physiology to gene identification. School of Agriculture, Nagoya University, Japan, August.
36. How to design unique and productive research projects. Hebei Agricultural University, China, July.
37. Advanced research methods and techniques in plant stress physiology. Shandong Agricultural University, China, July.
38. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, Orlando, Florida, February.

2007

39. Turfgrass water use physiology. Turfgrass Water Conservation Symposium. University of California, Riverside. September, 2007
40. Writing and publishing scientific papers. Institute of Genetics, Chinese Academy of science, China. August.
41. Genetic transformation for improving heat tolerance in turfgrass. Shandong University, China. July.
42. Exploring mechanisms of heat tolerance from whole-plant to molecular biology, Southern China Agricultural University, China. August.
43. Advance in plant stress biotechnology. Shandong Agricultural University, China, July 2.
44. Keynote address: Water conservation strategies in cool-season turfgrass. 2nd International Turfgrass Conference of Sports Field. Beijing, China. June 2007.
45. Dealing with summer bentgrass decline. Midwest Association of Golf Course superintendents. Chicago, March, 2007.
46. Advanced stress management strategies for cool-season turfgrass. International Golf Conference and Show, Anaheim, CA, February 2007.
47. Advanced stress management strategies for cool-season turfgrass (8-hour lecture). Golf Course Association of Maine. Portland, Maine, January, 2007.

2006

48. Exploring heat tolerance mechanisms on perennial grass. ASA-CSSSA-SSSA annual meeting, November, 2006. Indianapolis, IN.
49. Dealing with summer stress. NJ Turfgrass Exp. Atlantic City, December, 2006.
50. Managing turfgrass from the roots up. Wisconsin Golf Turf Symposium. Nov. 2006.
51. Keynote address: Root stress physiology and management. Wisconsin Golf Turf Symposium. November, 2006.
52. Recent research in heat stress physiology and management of creeping bentgrass. Rutgers Geiger Turfgrass Symposium. October, 2006. New Brunswick.
53. Research methodology in turfgrass stress physiology. Shanghai Jiao Tong University, July 2006.
54. Writing and publishing scientific papers. Shandong Agricultural University, July 2006.

55. Genetic transformation of creeping bentgrass for increased cytokinin synthesis and improving heat tolerance. International meeting of Plant Growth Regulation Society. Laval, Canada. April, 2006.
56. Water conservation strategies in turfgrass. Water Quantity and Quality Workshop. Los Vegas, March, 2006.
57. Managing soil moisture on fairways. TurfLinks Educational Symposium. Boston. January, 2006.

2005

58. Efficient Irrigation management for water conservation. NJ Turf Expo. December, 2005.
59. A holistic approach to mechanisms of cool-season grass tolerance to heat stress, Departmental seminar, Department of Agronomy, Purdue University, October 2005.
60. Use of plant growth regulator in turfgrass management. New England Turfgrass Expo. March 2005.
61. Water conservation and efficient irrigation management for fairway bentgrass. New Jersey Irrigation Workshop. February 2005.
62. Applied Turfgrass Physiology (One-day lecture). International Golf Conference and Show. San Diego, CA, February 2005.

2004

63. Mechanisms of turfgrass tolerance to drought and heat stress, Departmental seminar, Department of Horticulture, Cornell University, September 2004.
64. Keynote address: Current trends and future perspectives in turfgrass stress physiology. 1st Shanghai International Turfgrass Forum. Shanghai Jiao Tong University, China, August 2004
65. Managing summer bentgrass decline. 1st Shanghai International Turfgrass Forum. Shanghai Jiao Tong University, China. August 2004.
66. Recent advances in turfgrass stress physiology. Beijing Forestry University. China. August 2004.
67. Current research trends in plant stress physiology and biotechnology. Shandong Agricultural University, China. August 2004.
68. Current trends and future perspectives in turfgrass research. Hebei Agricultural University, China. August 2004.
69. Turfgrass stress physiology: Current trends and future perspectives. Huazhong Agricultural University, China. August 2004.
70. Water conservation and irrigation management in cool-season turf. Recent Advances in Turfgrass Science Workshop. Northeast Branch of ASA-SSSA. Boardentown, NJ, July 2004.

2003

71. Applied Turfgrass Physiology (One-day lecture). International Golf Conference and Show. San Diego, CA, February 2003.
72. Use of plant growth regulators in turfgrass stress management. New Jersey Turfgrass Conference, December, 2003.
73. Physiological mechanisms of drought and heat tolerance of cool-season grasses. Clemson University, September, 2003.
74. Keynote address: Recent advances in turfgrass stress physiology. 1st International Conference of Turfgrass Science for Sports Fields. Athens, Greece, June, 2003.
75. Water conservation and irrigation management in landscape turf. NJ Landscape Association, Meadowlands, NY, February, 2003.
76. Applied Turfgrass Physiology (One-day lecture). International Golf Conference and Show. Atlanta, Georgia, February 2003.

2002

77. Irrigation and water conservation in turfgrass management. New Jersey Turfgrass Conference, December, 2002.

78. Summer stress management for cool-season grasses. New Jersey Turfgrass Conference, December, 2002.
 79. Minirhizotron techniques in the evaluation of root growth. Research Center in Mexican Department of Agriculture, Culiacan, Mexico, April, 2002.
 80. Applied Turfgrass Physiology (One-day lecture). Nebraska Golf Course Superintendent Association, March 2002.
 81. Summer bentgrass decline: physiology and management. Advanced Turfgrass Management Symposium, Rutgers University, NJ. March 2002.
 82. Applied Turfgrass Physiology (One-day lecture). International Golf Conference and Show. Orlando, Florida, February 2002.
 83. Irrigation management to reduce water use and improve stress tolerance in turfgrass. Turflink Educational Symposium, Boston, Mass. February 2002.
 84. Physiology and management of summer bentgrass decline (four-hour lecture). Toyo Green Annual Turfgrass Symposium. February 2002.
 85. Methods and techniques to evaluate stress in turfgrass (one-day workshop). Toyo Green Annual Turfgrass Symposium. February 2002.
 86. Hormonal regulation of turfgrass tolerance to drought stress. Rutgers Turfgrass Symposium. January, 2002.
 87. Applied Turfgrass Physiology (One-day lecture). Ohio Golf Conference and Show. Cincinnati, Ohio, January 2002.
- 2001
88. Managing summer bentgrass decline. New Jersey Turfgrass Expo. December 2001.
 89. Drought and heat stress physiology of turfgrasses. New Jersey Turfgrass Expo. December 2001.
 90. Keynote address: Current and Future Trends of Turfgrass Research. International Turfgrass Conference. Toronto, Canada, July 2001.
 91. Irrigation management for water conservation and better stress tolerance. Turfgrass Producers International Symposium. Toronto, Canada. July, 2001.
 92. Graduate training in plant physiology. Workshop sponsored by Rockefeller Foundation. Providence, RI, July 2001.
 93. Applied Turfgrass Physiology (One-day lecture). Arizona Golf Course Superintendent Association, Phoenix, March 2001.
 94. Applied Turfgrass Physiology (One-day lecture). International Golf Conference and Show. Dallas, Texas, February 2001.
 95. Dealing with summer bentgrass decline: why and how? Proceedings of the tenth anniversary Rutgers turfgrass symposium. Rutgers University. January 2001.
 96. Physiology and management of summer bentgrass decline. Turfgrass Conference of Kansas Golf Course Superintendent Association, Kansas City, Kansas, January 2001.
 97. Applied Turfgrass Physiology (One-day lecture). Oklahoma Golf Course Superintendent Association, Oklahoma City, January, 2001.
- 2000
98. Summer bentgrass decline: from root perspective. Annual Conference of Myerscough Turfgrass Foundation. England, November, 2000.
 99. Applied Turfgrass Physiology (One-day lecture). Golf Course Superintendent of America Conference and Show. New Orleans, February, 2000.
 100. Technique and Methods in Stress Physiology Research (Half-day lecture). Academy of Agricultural Science in Tianjin, China. June, 2000.
 101. Physiological mechanisms of cool-season turfgrass adaptation to high temperature (Half-day lecture). Academy of Agricultural Science in Tianjin, China. June, 2000.
 102. Carbohydrate metabolism and lipid Peroxidation in relation to heat tolerance in creeping bentgrass. Graduate School, Chinese Academy of Agricultural Science, China, June, 2000.

103. Managing turfgrass from the roots up. 70th Annual Michigan Turfgrass Conference. January, 2000.
104. Evaluation of environmental factors affecting turf growth. 70th Annual Michigan Turfgrass Conference. January, 2000.
105. Root are gone in the summer: Where and why? 70th Annual Michigan Turfgrass Conference. January, 2000.
106. Root characteristics associated with drought resistance. Plant Physiology program, Penn State University, January, 2000.
- 1999
107. Soil aeration effects on root growth and activities. Seedling establishment symposium in International Society of Horticultural Science, Roanoke, Virginia. May, 1999.
108. Environmental and physiological factors influencing creeping bentgrass summer performance. International Golf Course Conference. Anaheim, CA. February, 1999.
- 1998
109. Applied Turfgrass Physiology (One-day lecture). Golf Course Superintendent of America Conference and Show. New Orleans, February, 1998.
- 1997
110. Research methodology in stress physiology. Chinese Academy of Science, December, 1997.
111. Current studies in plant stress physiology in the U.S. Shandong Agricultural University and China Agricultural University, China. December, 1997.
112. Physiological mechanisms of stress tolerance in plants. Shandong Agricultural University and China Agricultural University, China. December, 1997.
113. Research methodology in stress physiology; cultural practices in cool-season turfgrass management. Shandong Agricultural University and China Agricultural University, China. December, 1997.
114. Summer Bentgrass Decline. Lake Hefner Golf Club, Oklahoma City, Oklahoma. March, 1997.
115. Root mortality and plasticity in relation to drought resistance. Root Biology Symposium, C-2 Division, ASA Annual Meeting, Anaheim, California, 1997.
- 1996
116. Plant stress physiology research methodology. Lanzhou University, China. June, 1996.
- 1994
117. Root hydraulic conductivity and its components, with emphasis on desert succulents. The Rhizosphere Dynamics Symposium, C-2 Division, ASA Annual Meeting, Minneapolis, Minnesota, 1994.
118. Hydraulic and structural changes for lateral roots of two desert succulents in response to soil drying and rewetting. The Katherine Easu Symposium, University of California, Davis, 1994.
- 1992
119. Hydraulic conductance and its components of roots, with emphasis on desert succulents. Root symposium in memory of Dr. Howard Taylor. Annual meeting of Agronomy Society of America. 1992.

Voluntary Seminar Presentations and Lectures: 57

1. Metabolic profiling for metabolites associated with heat tolerance in perennial grass species. 2010 International Annual Meetings: [ASA-CSSA-SSSA].
2. Protein Synthesis and Thermal Stability Associated with Root Thermotolerance in *Agrostis* Species. 2009 International Annual Meetings: [ASA-CSSA-SSSA].

3. Molecular Characterization of Heat-responsive Genes Associated with Heat Tolerance in Bentgrass Species. 2008 Joint Annual Meeting:GSA/SSSA/ASA/CSSA/GCAGS/HGS
4. Lipid Profiling Associated with Root Thermotolerance in Agrostis Species Contrasting in Heat Tolerance. Nov. 4-8, New Orleans. 2007.
5. Drought Tolerance and Water-Saving Characteristics of Kentucky and Hybrid Bluegrasses. November 10-13, 2006 – Indianapolis.
6. Exploring Mechanisms of Heat Tolerance in Perennial Grass Species from Whole-plant to Molecular Biology. November 10-13, 2006 – Indianapolis.
7. Heat-inducible Gene Expression Associated with Stress Tolerance in Agrostis species. November 10-13, 2006 – Indianapolis.
8. Genetic transformation of creeping bentgrass for increasing cytokinin synthesis. *Annual Meeting Abstracts*. [ASA/CSSA/SSSA/CSSS]. Salt Lake City, UT: 7-10 November, 2005.
9. Physiological recovery of Kentucky bluegrass from drought stress. International Turfgrass Conference. Wales, UK. July 2005.
10. Acclimation of leaf photosynthesis and Rubisco activity and activation to heat stress in creeping bentgrass. Annual meeting of ASA-SSSA-CSSA, Seattle, WA. November 2004.
11. Heat tolerance mechanisms in cool-season turfgrasses. Rutgers Turfgrass Symposium. January 2004.
12. Root factors controlling creeping bentgrass response to high soil temperatures. Annual meeting of ASA-SSSA-CSSA, Denver, CO, November, 2003.
13. Changes in membrane lipid composition in relation to heat tolerance in creeping bentgrass. Annual meeting of ASA-SSSA-CSSA, Denver, CO, November, 2003.
14. Mowing effects on creeping bentgrass summer performance. Rutgers Turfgrass Field Day, July 2003.
15. Minimum water requirements for bentgrass fairways. Rutgers Turfgrass Field Day, July 2003.
16. Leaf characteristics associated with drought tolerance for tall fescue. 1st International Conference of Turfgrass Science for Sports Field. Athens, Greece, June, 2003.
17. Determination of minimum water requirements of three bentgrass species. Turfgrass Field Day, August 2002.
18. Cultivar variations and mowing effects in summer performance of creeping bentgrass. Turfgrass Filed Day, August, 2002.
19. Lowering soil temperature alleviates heat injury in creeping bentgrass. World Scientific Congress of Golf. St. Andrews, Scotland, July 2002.
20. Hormonal regulation of drought tolerance in cool-season turfgrass Source *The Eleventh Annual Rutgers TurfgrassSymposium*. January 2002.
21. Root production, growth, and mortality of creeping bentgrass as affected by mowing height Source *2001 Annual Meeting of ASA/CSSA/SSSA*]. October 2001.
22. Evaluation of root growth for tall fescue cultivars using minirhizotron imaging system. Turfgrass Field Day. August 2001.
23. Root growth of creeping bentgrass as effected by bacteria and mycorrhizal infection. Turfgrass Field Day. August 2001.
24. Effects of root-zone cytokinin application on creeping bentgrass tolerance to heat stress. Annual meeting of American Society of Agronomy. Minneapolis, Minnesota. October 2000.
25. Root mortality and nutrient uptake of creeping bentgrass in response to differential root and shoot temperatures. Annual meeting of American Society of Horticultural Science. Orlando, FL. July, 2000.
26. Root characteristics and drought resistance. Linking root biology to crop performance workshop. Annual meeting of American Society of Horticultural Science, Minneapolis, Minnesota, July, 1999.

27. Summer bentgrass decline as affected by mowing and irrigation. Annual meeting of American Society of Agronomy. Salt Lake City, Utah. October, 1999.
28. Genetic and seasonal variation in turf and root growth of creeping bentgrass. Annual meeting of American Society of Agronomy. Salt Lake City, Utah. October, 1999.
29. Agrobacterium-mediated transformation of creeping bentgrass. Annual meeting of American Society of Agronomy. Salt Lake City, Utah. October, 1999.
30. Tips for helping your grass survive the summer. 49th Conference of Kansas Turfgrass Foundation. December, 1999.
31. Keeping cool about it: Managing soil temperatures to maintain healthy bentgrass greens. 49th Conference of Kansas Turfgrass Foundation. December, 1999.
32. Gas exchange and water relations of diverse tall fescue cultivars in response to drought stress. Annual meeting of American Society of Horticultural Science. Minneapolis, Minnesota, July, 1999.
33. Carbon metabolism of tall fescue and Kentucky bluegrass as affected by drought stress. Annual meeting of American Society of Agronomy. Salt Lake City, Utah. October, 1999.
34. Environmental stress tolerance mechanisms in turfgrass. Annual NCR Turfgrass Discussion Group meeting, Ames, Iowa. June, 1998.
35. Temperature effects on carbohydrate metabolisms and root activities in creeping bentgrass". Annual meeting of Agronomy Society of America. Baltimore, Maryland, October, 1998.
36. Antioxidant enzyme activities in relation to heat tolerance in creeping bentgrass. Annual meeting of Agronomy Society of America. Baltimore, Maryland, October, 1998.
37. Water relations and root activity of buffalograss and zoysiagrass in response to localized drought stress. Annual meeting of Agronomy Society of America. Baltimore, Maryland, October, 1998.
38. Managing creeping bentgrass summer decline. Kansas Turfgrass Field Day, August, 1998.
39. reens going south: here is why. Kansas Turfgrass Conference. Topeka. December, 1998.
40. Drought tolerance diversity: how and why. Kansas Turfgrass Conference. Topeka. December, 1998.
41. Root spatial distribution and activities of seven turfgrasses in response to localized drought stress". The 8th International Turfgrass Research Conferences. Sydney, Australia, July, 1997.
42. Physiological responses of creeping bentgrass to high temperature and poor soil aeration".
43. nnuual meeting of Agronomy Society of America. Anaheim, CA. October, 1997.
44. Using minirhizotron imaging systems to evaluate turfgrass rooting". Kansas Turfgrass Field Day, Wichita, June, 1997.
45. Summer management of creeping bentgrass". Kansas Turfgrass Field Day, Manhattan, September, 1997.
46. Stress tolerance: managing turf from ground up". Kansas Turfgrass Conference. Topeka. December, 1997.
47. Managing creeping bentgrass summer decline". Kansas Turfgrass Conference. Topeka. December, 1997.
48. Carbon relations of two wheat genotypes as affected by hypoxia. Annual meeting of Agronomy Society of America. Cincinnati, IN. October, 1996.
49. Response of wheat genotypes to root-zone CO₂ enrichment. Annual meeting of Agronomy Society of America. 1995.
50. Sensitivity to ethylene of wheat genotypes differing in waterlogging tolerance. Annual meeting of Agronomy Society of America. 1995.
51. Biomass partitioning and root development of peanut in response to shading. Annual meeting of Agronomy Society of America. 1994.

52. Genotypic variation in physiological and anatomical responses to hypoxia. Annual meeting of Agronomy Society of America. 1994.
53. Physiological and growth responses of wheat seedlings to waterlogging. Annual meeting of Agronomy Society of America. 1993.
54. Carbon balance and water relations of rhizosphere for cacti. Abstract of Ecological Society of America. Annual meeting of Agronomy Society of America. 1993.
55. Changes in water relations and structure for roots of *Agave deserti* during drought-induced abscission. Abstract of Ecological Society of America. Annual meeting of Agronomy Society of America. 1992.
56. Empirical modeling wheat root growth and development as affected by temperature and plant age. Annual meeting of Agronomy Society of America. 1991.
57. Wheat root morphological development as affected by temperature. Annual meeting of Agronomy Society of America. 1990.

Teaching and Advising Activities

Current courses

1. China's Agricultural, Ecological and Environmental Challenges and Global Impacts (3 credits), 2011-present, undergraduate course, Rutgers
2. Advanced Plant Physiology (3 credits), 2005 – present, Graduate course, Rutgers
3. Plant Physiology (3 credits), 2001- present, Undergraduate course, Rutgers
4. Turfgrass stress physiology and management, 2001- present, Rutgers Professional Golf Turf Management School, two-year certificate program
5. Turfgrass stress management, 2001 – present, Rutgers Professional Golf Turf Management School, three-week certificate program
6. Advanced Management Strategies for Cool-season Turfgrass (8-hour lecture). 1998 – Present, Golf Course Superintendent Association of America Annual Conference.

Courses taught

7. Seminar in Plant Biology (2 credits), 2002-2003, Graduate course, Rutgers
8. Turfgrass Science (3 credits), 1996-2000, Graduate and undergraduate course, Kansas State University.
9. Biology (3 credits), 1994-1995, Undergraduate course, Mercer University, GA\
10. Environmental Science (3 credits), 1995, Undergraduate course, Mercer University, GA
11. Crop Physiology (4 credits), 1987-1988, Undergraduate course, Shandong Agric. Univ., China.

Advising

Undergraduate students:

2002 - Present, Advisor for undergraduate students majored in turfgrass science. Rutgers
1996-2000, Advisor for over 50 undergraduate students in turfgrass science each year, Kansas State University.

Undergraduate Independent research

Yan Yan, 2011. Water use of Kentucky bluegrass as affected by the exogenous application of biostimulants.

William Rechert, 2010. Effects of plant growth regulators on water and fertilizer requirement in turfgrass.

William Keyes, 2010. Effects of plant growth regulators on cold tolerance in creeping bentgrass and annual bluegrass.

- Joel Varghese, 2009. Effects of antitranspirants on turf desiccation-related cold tolerance in creeping bentgrass.
- Nurual Ibrahim, 2008-2009. Effects of chemical chaperones on heat and drought tolerance in creeping bentgrass.
- Martin Jiang, 2008-2009. Best irrigation management with reclaimed water for bentgrass putting greens
- Jione Kim, 2007-2008. Evaluation of water use efficiency in drought-stressed Kentucky bluegrass
- Ulises Hernandez, 2007-2008. Physiological traits associated with drought and heat tolerance in cools-season turfgrass species
- Chirst Hendrikson, 2005 – 2006. Effects of plant growth regulators on turfgrass growth and drought tolerance.
- John Jeong, 2004-2005. Effects of wetting agents on turfgrass growth.

Graduate students:

Current

- Liang Cheng, Ph.D in progress
- David Jespersen, Ph.D in progress
- Patrick Bergess, Ph.D in progress
- Jianming Sun, Ph.D. in progress

Former (current position and affiliation)

- Emily Merewitz, Ph.D. 2012
- Yan Zhao, Ph.D. 2011 (Research scientist, Academy of Shanghai Agricultural Science, China)
- Diheng Zhong, MS. 2011 (Shanghai Jiao Tong University, China)
- Longxing Hu, Ph.D. 2010 (Assistant research scientist, Wuhan Institute of Botany, China)
- Hua Shen , MS, 2010 (Instructor, Golf School, Shanghai Jiao Tong University, China)
- Yan Xu, Ph.D. 2010 (Assistant professor, Ramapo College, New Jersey)
- Tim Sibicky, MS. 2009 (Research manager, Chicago District Golf Association, Chicago)
- Steve McCann, Ph.D. 2007 (Research scientist, Monsanto, St. Luis)
- Michelle Dacosta, Ph.D. 2006 (Assistant professor, University of Massachusetts)
- Daolin Fu, Ph.D., 2003 (Assistant professor, Shang Dong Agricultural University, Taian, China)
- Jinmin Fu, Ph.D., 2003 (Research scientist, Chinese Academy Science, Botany Institute-Wuhan)
- Tina Yu, Ph.D. 2001 (Research scientist, National Institute of Health, Washington D.C.)
- Yiwei Jiang, Ph.D., 2001 (Associate professor, Purdue University)
- Xiaozhong Liu, Ph.D., 2000 (Research scientist, Valent BioScience, Chicago)

Committee member

- Brittany Graf, Ph.D. in progress
- April Jackson, Ph.D. in progress
- James Cross, Ph.D. in progress
- Priti Saxena, Ph.D. in progress
- James Hamfley, M.S. In progress
- Charles Smith, Ph.D. in progress
- Debora Esposito, Ph.D. in progress
- Matt Koch, Ph.D. in progress

Josh Honig, Ph.D. 2010
 Maricia Blackmoore, M.S. 2010
 John Inguagiato, Ph.D. 2009
 Robert Shortell, Ph.D. 2009
 Joseph Roberts, MS, 2009
 Patrick McCoullgh, Ph.D. 2008
 Fabio Chave, Ph.D. 2007
 Daren Lycan, Ph.D. 2005
 Beth Ravit, Ph.D.2005
 Gab Tower. M.S. 2005
 Eric Watkins, Ph.D. 2003
 Kiranmai Nandivada, M.S. 2000
 Alan Zuk, Ph.D., Ph.D. 1999
 Kathy Brook, Ph.D., 1999
 Derick Settle, M.S., 1999
 Kwang-Hyun Baek, M.S. 1999
 Belquis Basharahil, M.S., 1998

International graduate students

Co-advisor for Jingjin Yu, Ph.D. 2010-present (visiting graduate student), Beijing Forestry University, China
 Co-advisor for Tatsiana Espevig, Ph.D. 2011 - Department of Plant and Environmental Sciences Norwegian University of Life Sciences.
 Co-advisor for Lixin Xu, Ph.D. 2009-2011 (visiting graduate student), Beijing Forestry University, China
 Ph.D dissertation examiner, Annamalai University, India, 2011
 Ph.D dissertation committee, Lavel University, Canada, 2005
 Ph.D dissertation examiner, Western Australia University, Australia, 2001

Post-doctoral trainees, visiting students, and visiting scientists:

Current

Chenping Xu, 2007 – present (post doc.)
 Zhimin Yang, 2011 – present (visiting scientist), associate professor, Nanjing Agricultural University, China
 Yajun Chen, 2011 – present (visiting scientist), professor, Northern China Agricultural University, China

Former (current position and affiliation)

Nirit Bernstein, 2010, visiting scientist (Research scientist, Agricultural Research Center, Volcani Center, Israel)
 Yan Peng, 2010, visiting scientist (professor, Si Chuan Agricultural University, China)
 Tanja Espevig, 2009, visiting graduate student (Lecturer, Norwegian University (UMB), Norway)
 Fang Jin, 2008-2009, visiting scientist (associate professor, Gan Su Agric. Univ. – Lanzhou)
 Qi Chai, 2009-2010, visiting scientist (associate professor, Lanzou Univ. – Lanzhou)
 Yan Zhang, 2008 – 2009, post doc.(GeneWitz, Piscataway)
 Aifang Yang, 2007 – 2008, visiting scientist (professor, Shang Dong Unviersity – Jinan, China)

Cuiyue Liang, 2007, visiting graduate student (assistant professor, South China Agric. University-Guanzhou)

Jiag Tian, 2006 – 2007, post doc. (assistant professor, South China Agric. University-Guanzhou)

Vigh Mahalaxmiramesh 2006 – 2007, post doc. (assistant professor, India)

Xuju Bian, 2006, visiting scientist (professor, He Bei Agric. Univ. –Bao Ding, China)

Jichen Xu, 2003 – 2006, post doc. (professor, Beijing Forestry University, Beijing)

Shimon Rachmilevitch, 2004 – 2006, post doc.(associate professor, Ben-Gurion Univ., Israel)

Jingpeng Xing, 2004 – 2006, post doc. (Statistician, Morgan Stanly, Jersey City)

Yali He, 2003 – 2005, post doc. (professor, Shanghai Jiao Tong University-Shanghai)

Ricardo Cespeds, 2002 – 2005, post doc. (associate professor, Universidad Católica de, Chile)

Eric Lyons, 2003 – 2004, post doc. (associate professor, University of Guelph, Canada)

Eleni Abraham, 2002 – 2003, post doc. (professor, Aristotle Univ., Thessaloniki, Greece)

Xiaozhong Liu, 2002 – 2003, post doc. (research scientist, Valent Bioscience, Chicago)

Jane Larkindale, 2002 – 2003, post doc. (Research Coordinator, Muscular Dystrophy Ass.Tucson)

Zhaolong Wang, 2001- 2003, post doc. (professor, Shanghai Jiao Tong University-Shanghai)

Sor Amoyo, 2001, visiting student – Puerto Rico

Qingzhang Xu, 1998 – 2002, post doc. (research scientist, Monsanto, St. Luis)

Hongwen Gao, 1997 – 1999, post doc. (research scientist, Chinese Acad Agric. Sci.-Beijing)

Bin Wang, 1997 – 1998, visiting scientist (Shan Xi, China)