

Shenghua Yuan

Ecology and Evolutionary Biology
165 Prospect Street,
Yale University
New Haven, CT 06511

Office: 203-432-8099
Cell: 706-201-5310
email: shenghua.yuan@yale.edu

Education

1993 Northeast Forestry University, Harbin, China, B.A. Forest Science
1997 Northeast Forestry University, Harbin, China, M.S. Forest Genetics and Breeding
2005 University of Georgia, Athens, GA, M.S. Statistics
2006 University of Georgia, Athens, GA, Ph.D. Forest resources, major in Forest Biotechnology

Professional Experience

Research Assistant, Plant Tissue Culture Laboratory, Beijing Forestry Bureau, China 1997-2000
Research Assistant, Warnell School of Forest Resources, University of Georgia, Athens, GA, 2000-2006
Post-Doc Associate, University of Georgia, Athens, GA, 2006-2007
Post-Doc Associate, Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, 2007-

Research Interests

Plant gene regulation and function test related to external stimuli, plant growth regulator (ethylene, auxin), functional genomics, plant phylogeny, ecological genomics.

Publications and Manuscripts

Andrew DB Leakey, Elizabeth A Ainsworth, Stephanie Bernard, Evan H Delucia, Donald R Ort, Sara Placella, Alistair Rogers, Melinda Smith, Erika Sudderth, David Weston, Stan Wullschleger, Shenghua Yuan. 2009. Gene expression profiling – opening the black box of plant ecosystem responses to global change. *Global Change Biology*, 2009, 15: 1201-1213.

Shenghua Yuan, Yuefang Wang, Jeffrey F.D. Dean. The gene family of an ACC oxidase expressed in wood-forming tissues of Loblolly pine (*Pinus taeda* L.) contains a Nearly Identical Paralog (NIP). (in revision, Gene)

Shenghua Yuan, Jeffrey F.D. Dean. Loblolly pine (*Pinus taeda* L.) ACC oxidase gene promoters display differential responses to bending stress and other external stimuli in transgenic *Arabidopsis*. (in preparation).

Shenghua Yuan, Jianfa Bai, K. A. Garrett, S. H. Hulbert, J. E. Leach, P. S. Schnable, S. E. Travers, and Melinda D Smith. Transcript expression responses of two dominant C₄ grasses to warming and altered precipitation regimes. (in preparation).

Shenghua Yuan, Melinda D Smith. Extending MapMan Ontology to monocot and its application in genomic response of native C₄ grasses to changing rainfall pattern in Tallgrass prairie. (in preparation).

Yuefang Wang, Shenghua Yuan, John R. Barnes, Jeffrey F.D. Dean. The Isolation and Characterization of ACC Oxidase Genes from Loblolly pine (*Pinus taeda*). 26th Biennial Southern Forest Tree Improvement Conference. 2001, 199-202.

Zhan YaGuang, Chen Quanshe, Shenghua Yuan, Liu Guanjun, Liu Guifeng, Yang Chuanping. 1999. K^+ and Na^+ content change in trees under salt stress and tree salt tolerance. Journal of Northeast Forestry University. 27: 24-27 (in Chinese with English abstract)

Huang Qinjun, Xia Dean, Lu Yifang, Yuan Shenghua, Li Yongqi. 1997. Study on Genetic Structure of Best Provenance of Larix Gemilini(1)---- The Linkage Genetic Relationship of MDH and GOT Enzyme. Journal of Northeast Forestry University. 25: 5-8. (in Chinese with English abstract)

Yang Chuanping, Yuan Shenghua, Jiao Xicai, Lie Wenxiang, Liang Jing. 1997. The Relationship of Permeability of Plasma Membrane and Salt Resistance of Woody Plants. Journal of Northeast Forestry University. 25: 1-3. (in Chinese with English abstract)

Yuan Shenghua, Yang Chuanping, Jiao Xicai, Wang Chunjuan. 1996. The Germinative Characteristics of Various Tree Seeds in Different Salinity. Journal of Northeast Forestry University, 24: 41-46. (in Chinese with English abstract)

Meetings and Presentations

Yuan S., Wang Y., Dean, J.F.D. 2002. The Isolation and Characterization of ACC Oxidase Genes from Loblolly pine (*Pinus taeda*). The Graduate symposium in the Warnell School of Forest Resources, UGA (oral presentation)

Yuan, S., Barnes, J.R., Dean, J.F.D. 2006 Ethylene biosynthetic gene responses and compression wood formation in loblolly pine. Plant Physiol. P03003 (poster presentation)

Microarray data analysis and Bioinformatics workshop. 2007. Kansas State University.

Yuan, S., Bai J., Garrett K.A., Hulbert S.H., Leach J.E., Schnable P.S., Travers S.E., and Smith, M.D. Genomic Responses of two native C4 species in the tall grass Prairie. 2007 The 5th Symposium of Ecological Genomics. Kansas City. (poster presentation)

Workshop on statistical analysis and data integration in plant genomic ecology research. 2007, University of Illinois at Urbana-Champaign (oral presentation)

Yuan, S., Bai J., Garrett K.A., Hulbert S.H., Leach J.E., Schnable P.S., Travers S.E., and Smith, M.D. 2009. Genomic Responses of two native C4 species in the tall grassland Prairie. American Genetics Association Annual Symposium, Brown University. (poster presentation)