

RESUME

Quanzi Li

Email: qli2@ncsu.edu
Telephone: Office: (919)5130096
Lab: (919)5130015

Education

B.S. 1993 **Food Sciences**, Department of Food Sciences. Shandong Agricultural University
M.S. 1996 **Plant Physiology**, College of Life Sciences. Shandong Agricultural University
Ph.D. 2002 **Molecular biology**, College of Life Sciences. Shandong Agricultural University

Appointments

Jul. 2005 to date Research Associate (Postdoc), Department of Forestry and Environmental Resources, North Carolina State University, USA.
Jul. 2002-Jun. 2005 Associate Professor, Shandong Agricultural University, China
Jul. 1999-Jun. 2002 Lecturer, Shandong Agricultural University, China
Jul. 1996-Jun. 1999 Teacher Assistant, Shandong Agricultural University, China

Association

Member of American Society of Plant Biologists (ASPB).
Member of Sigma Xi, the Scientific Research Society.
Faculty member of North Carolina State University's Forest Biotechnology Industrial Research Consortium (FORBIRC).

Award

2003 Shandong Province Outstanding Ph.D Dissertation Award

Research Funding Award:

1. A mini-grant project funded by Forest Biotechnology Industrial Research Consortium (FORBIRC): Functional characterization of the poplar xylem specific cellulose synthase genes. \$20,000. 08/01/2007-06/30/2008. Principal Investigator.
2. A mini-grant project funded by FORBIRC. Transgenic wood engineered with a built-in xylanolytic enzyme system for biocatalytic biomass saccharification. 7/1/2008- 6/30/2009, \$20,000. Principal Investigator.

Publications

Journal publication

1. Rui Shi, Ying-Hsuan Sun, Quanzi Li et al (2010). Toward a systems approach for lignin biosynthesis in *Populus trichocarpa*: Transcript abundance and specificity of the monoglignol biosynthetic genes. *Plant and Cell physiology*, 50 (in press).
2. **Quanzi Li**, and Guangyi Wang. (2009). Diversity of Fungal Isolates from Three Hawaiian Marine Sponges. *Microbiological Research*. 164: 233-241.
3. Guangyi Wang, **Quanzi Li**, et al. (2007). Phylogenetic Diversity of Culturable Fungi associated with the Hawaiian Sponges *Suberites zeteki* and *Gelliodes fibrosa*. *Antonie van Leeuwenhoek International Journal of General Molecular Microbiology*, 93: 163-174.
4. Ping Zhu, **Quanzi Li**, et al. (2007). Unique Microbial Signatures of the Alien Hawaiian Marine Sponge *Suberites zeteki*. *Microbial Ecology*, 55: 406-414.
5. Jiarui Li, Wei Zhao, **Quanzi Li**, et al. (2005). RNA Silencing of *Waxy* Gene Results in Low Levels of Amylose in the Seeds of Transgenic Wheat (*Triticum aestivum* L.). *Acta Genetica Sinica* 32: 846-854.
6. Hongyan Su, **Quanzi Li**, et al. (2005). Characterization and Expression Analysis of a MADS Box Gene, HOMADS2, in *Hyacinthus orientalis* L. *Acta Genet Sin.* 32 (11): 1191-1198.
7. Hongyan Xu, Xingguo Li, **Quanzi Li**, et al. (2004). Characterization of *HoMADSI* and Its Induction by Plant Hormones during *in vitro* Ovule Development in *Hyacinthus orientalis* L. *Plant Molecular Biology*, 55:209-220.
8. **Quanzi Li** et al. (2002). Isolation of *HAG1* and Its Regulation by Plant Hormones during *in vitro* Floral Organogenesis in *Hyacinthus orientalis* L. *Planta*, 215: 533-540.
9. **Quanzi Li** et al. (2001). Isolation and Expression of *HAP2* in *Hyacinthus orientalis* L. *Developmental & Reproductive Biology (China)*, 10: 69-75.
10. Xiansheng Zhang, **Quanzi Li**, et al. (2000). Molecular Cloning and Expression Analysis of *HAG1* in the Floral Organs of *Hyacinthus orientalis* L. *Science in China Series C*, 43: 395-401.
11. **Quanzi Li** et al. (2000). Isolation and Expression of an *AGAMOUS* Homolog in the Flower of Cucumber (*Cucumis sativas* L). *Developmental & Reproductive Biology*, 9: 69-76.
12. Xiansheng Zhang, **Quanzi Li**, et al. (1999). Hormonal Regulation of Postpollination Development of *Doritaenopsis* Flowers by Auxin and Ethylene. *Acta Phytophysiologica Sinica (China)*, 25 (2): 178-186.

13. Ling Wang, Xiansheng Zhang, Huiwen Zhong, **Quanzi Li** (1999). Expression and Sequence Analysis of a cDNA Relative to Orchid Ovule Development. *Acta Botanica Sinica* (In Chinese), 41(3): 276-279.
14. **Quanzi Li**, et al. (1998). Ethylene Evolution, ACC Content and ACC Oxidase Activity in Earlier-Ripening Fruits and Seeds of Peach During Fruit Development. *Communication of Acta Phytophysiologicala (in chinese)*, 34 (1): 25-27.

Published Abstracts

1. Xiansheng Zhang, **Quanzi Li**, et al. (2000). Regulation of Homeotic Gene Expression in the Regenerated Flowers of *Hyacinthus orientalis*. The annual meeting of the American Society of Plant Biologists, *Plant Biology* 2000, Abstract 80, p. 39.
2. Xiansheng Zhang, Xia Wang, **Quanzi Li**, et al. (2003). A Seed-Specific Gene RS6, Encodes a Putative Cupin Domain Protein, Is Essential for Seed Development in *Oryza sativa* L. The Annual Meeting of the American Society of Plant Biologists, *Plant Biology* 2003, **Abstract** 491, p.117.
3. Guangyi Wang, **Quanzi Li**. (2005). Diversity of Marine Fungi associated with Marine Sponges in Hawaii *Inoculum, supplement to Mycologia*, Vol. 56 (4), abstract, p. 62.
4. Guangyi Wang, **Quanzi Li**. (2005). Diversity of Marine Fungi associated with Marine Algae in Hawaii, *Inoculum, supplement to Mycologia*, Vol. 56 (4), abstract, p. 62.
5. Juanita Matthews, **Quanzi Li**, Richard Boyer and Guangyi Wang. Production of hydrogen and heterologous hydrogenase in metabolically engineered *E. coli* strains. The 28th symposium on *Biotedchnology for Fuel and Chemicals* in 2007 (Oral presentation).
6. Vincent Chiang, Ron Sederoff, Ho-min Chang, Ying-Hsuan Sun, Ting-Feng Yeh, Shanfa Lu, **Quanzi Li**, and Rui Shi (2009). Genomic knowledgebase for facilitating the use of woody biomass for fuel ethanol production. DOE-BER Genomics: GTL and USDA-DOE plant Feedstock Genomics awardee meeting. Abstract, p47.

Book Chapters

Guangyi wang, Quanzi Li, Sanghwal Yoon. 2007. Biodiversity and biotechnological potentials of fungi from the marine environment. In: Rai, M. and S. K. Deshmukh (eds). *Mycotechnology: Current trends and future prospects*. I.K. International publishing House Pvt.Ltd., New Delhi. Pages 215-225

Patents:

1. Xiansheng Zhang, Fang Wang, **Quanzi Li** and Xingguo Li. Gene cloning and application of cell cycle protein in wheat. (Patent No. ZL 02 1 35544.4)
2. Xiansheng Zhang, Weihua Qiao, Xingguo Li and **Quanzi Li**. The gene cloning and application of the Na⁺/H⁺ antiporter gene from *Agropyron*. (Patent No. ZL 02 1 35545.2)