

# RESUME

Quanzi Li

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## 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 monolignol 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 *HoMADS1* 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 28<sup>th</sup> 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<sup>+</sup>/H<sup>+</sup> antiporter gene from *Agropyron*. (Patent No. ZL 02 1 35545.2)