

CURRICULUM VITAE

Yong-Qin Wang

Current Position: Postdoctoral Researcher in Grotewold Lab, Dept. of Plant Cellular and Molecular Biology, The Ohio State University

Address: 208 Rightmire Hall, 1060 Carmack Road, Columbus, Ohio 43210, United States

Phone: 614-688-4954 (work)

E-mail: yqinwang@hotmail.com

Research Interest

1. The effect of transposons on gene expression in maize
2. The mechanisms by which RIF1 contributes to the regulation of anthocyanin biosynthesis

Education

Ph.D., Molecular Genetics, 2007

Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China
Dissertation: "Characterization, expression analyses and transgenic studies of cell wall invertase genes and monosaccharide transporter genes from rice (*Oryza sativa* L.)"

Advisor: Prof. Zhen Zhu

M.S., Plant Genetics and Breeding, 2001

Department of Plant Genetics and Breeding, China Agricultural University, Beijing, China
Dissertation: "Study on wheat (*Triticum aestivum* L.) genetic transformation mediated by *Agrobacterium tumefaciens*"

Advisors: Prof. Ai-Min Zhang and Prof. Xing-Guo Xiao

B.S., Agronomy, 1998

Department of Agronomy, Agricultural University of Hebei, Baoding, China
Dissertation: "Analysis of geographical resource information"

Advisor: Prof. Wei-Li Zhang

Research Experience

Dept. of Plant Cellular and Molecular Biology, The Ohio State University, Columbus, OH, USA
Postdoctoral Researcher in Grotewold Lab, 07/2008-present

State Key Laboratory of Plant Genomics, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China

Doctoral student in the laboratory of Prof. Zhen Zhu, 2001-2007

State Key Laboratory of Plant Physiology and Biochemistry, Department of Plant Molecular Biology and Biochemistry, China Agricultural University, Beijing, China

Graduate student in the laboratory of Prof. Xing-Guo Xiao, 1998-2001

Agricultural Information Department, Soil and Fertilizer Institute, Chinese Academy of Agricultural Sciences, Beijing, China

Undergraduate student in the laboratory of Prof. Wei-Li Zhang, 1998

Research Skills

Molecular biology skill: plasmid construction, DNA/RNA/protein extraction, Southern, Northern and Western blotting, PCR, RT-PCR, Semi-quantitative RT-PCR, Quantitative RT-PCR and Tail-PCR, map-based cloning, cDNA library screening

Cellular biology skills: protoplast culture, plant tissue culture and transformation mediated by *Agrobacterium tumefaciens* or by biolistic bombardment, RNA in situ hybridization, free-hand sectioning and paraffin sectioning, light microscope and fluorescence microscope

Computer skills: Microsoft Word, Microsoft PowerPoint, Microsoft Excel and Adobe Photoshop, bio-software and biological databases

Publications

1. **Wang Y**, Xiao Y, Zhang Y, Chai C, Wei G, Wei X, Xu H, Ouwerkerk PBF, Wang M, Zhu Z (2008) Molecular cloning, functional characterization and expression analysis of a novel monosaccharide transporter gene *OsMST6* from rice (*Oryza sativa* L.). *Planta* 228:525-535
2. **Wang YQ**, Wei XL, Xu HL, Chai CL, Meng K, Zhai HL, Sun AJ, Peng YG, Wu B, Xiao GF, Zhu Z (2008) Cell-wall invertases from rice are differentially expressed in caryopsis during the grain filling stage. *J Integr Plant Biol* 50:466-474
3. **Wang Y**, Xu H, Wei X, Chai C, Xiao Y, Zhang Y, Chen B, Xiao G, Ouwerkerk PBF, Wang M, Zhu Z (2007) Molecular cloning and expression analysis of a monosaccharide transporter gene *OsMST4* from rice (*Oryza sativa* L.). *Plant Mol Biol* 65:439-451
4. Sun AJ, Xu HL, Gong WK, Zhai HL, Meng K, **Wang YQ**, Wei XL, Xiao GF, Zhu Z (2007) Cloning and expression analysis of rice (*Oryza sativa* L.) sucrose transporter genes *OsSUT2M* and *OsSUT5Z*. *J Integr Plant Biol* 50:62-75
5. Zhou M, Xu H, Wei X, Ye Z, Wei L, Gong W, **Wang Y**, Zhu Z (2006) Identification of a glyphosate-resistant mutant of rice 5-enolpyruvylshikimate 3-phosphate synthase using a directed evolution strategy. *Plant Physiol* 140:184-195
6. Meng K, Chang TJ, Liu X, Chen SB, **Wang YQ**, Sun AJ, Xu HL, Wei XL, Zhu Z (2005) Cloning and expression pattern of a gene encoding a putative plastidic ATP/ADP transporter from *Helianthus tuberosus* L. *J Integr Plant Biol* 47:1123-1132
7. **Wang YQ**, Xiao XG, Zhang AM (2002) Factors affecting *Agrobacterium tumefaciens*-mediated transformation of wheat (*Triticum aestivum* L.). *Acta Genetica Sinica* 29:260-265