

Curriculum Vitae for Dr. Xuchu Wang

EDUCATION

1997 - 2001 M.S Hainan University, Plant Protection
2002 - 2005 B.S Chinese Academy of Tropical Agricultural Sciences, Plant Biology
2005 - 2008 Ph.D Institute of Botany, Chinese Academy of Sciences
Plant Development Science

SCIENTIFIC RESEARCH EXPERIENCE

2009-present Group leader for Proteomics of Tropical Crops, associate professor; Institute of Tropical Biosciences and Biotechnology, Chinese Academy of Tropical Agricultural Sciences
2008 - 2009 Research Associate, Institute of Botany, Chinese Academy of Sciences

RESEARCH INTERESTS:

- Establish the proteomic analysis systems and analysis of functional proteins in major tropical plants.
- Proteomic analysis of mechanism on latex vessel differentiation and ethephon stimulation of rubber latex production.
- Proteomic analysis of the stress tolerance, chloroplast and mitochondrial response to high light efficiency and drought in cassava.
- The molecular mechanism of leaves, chloroplast and root response under high salt stress using proteomic and transcriptomic strategies in *Thellungiella halophila*.
- Gene function analysis of key protein response to stress in *Arabidopsis thaliana* and *Thellungiella halophila*

MAJOR PUBLICATIONS IN RECENT YEARS

1. **Xuchu Wang***, Dongyang Wang, Haiyan Wang *et al.* (2011) Systematic comparison of technical details in CBB methods and development of a sensitive GAP stain for comparative proteomic analysis (Electrophoresis, 32, in press).
2. **Xuchu Wang***, Haiyan Wang, Dan Wang *et al.* (2011) Thermal denaturation produced degenerative proteins and interfered with MS for proteins dissolved in lysis buffer in proteomic analysis (Electrophoresis, 32, 345-56).
3. **Xuchu Wang***, Minjing Shi, Xiuli Lu *et al.* (2010) A method for protein extraction from different subcellular fractions of laticifer latex in *Hevea brasiliensis* compatible with 2-DE and MS (Proteome Science, 8, 35).
4. **Xuchu Wang**, Pengxiang Fan, Hongmiao Song *et al.* (2009) Comparative proteomic analysis of differentially expressed proteins in shoots of *Salicornia europaea* under different salinity (J Proteome Res, 8, 3331-3345).
5. **Xuchu Wang**, Xiaofang Li, Xin Deng *et al.* (2007) A protein extraction method compatible with proteomic analysis for euhalophyte *Salicornia europaea* (Electrophoresis 28, 3976-3987).
6. **Xuchu Wang**, Weimin Tian, Yinxin Li* (2008) Development of an efficient protocol of RNA isolation from recalcitrant tree tissues. (Mol Biotechnol 38, 57-64).
7. **Xuchu Wang**, Xiaofang Li, Yinxin Li* (2007) A modified Coomassie Brilliant Blue staining method at nanogram sensitivity compatible with proteomic analysis (Biotechnol Lett 29, 1599-1603).
8. Pengxiang Fan, **Xuchu Wang**, Tingyun Kuang, Yinxin Li* (2009) An efficient method for protein extraction of chloroplast protein compatible for 2-DE and MS analysis (Electrophoresis 30, 3024-3033).
9. Weimin Tian*, Shiqing Peng, **Xuchu Wang et al. (2007) Vegetative storage protein in *Litchi chinensis*, a subtropical evergreen fruit tree, possesses trypsin inhibitor activity (Ann Botany 100, 1199-1208).**
10. Hongmiao Song, Pengxiang Fan, **Xuchu Wang et al. (2009) Overexpression of *AtHsp90.2*, *AtHsp90.5* and *AtHsp 90.7* in *Arabidopsis thaliana* enhances plant sensitivity to salt and drought stresses (Planta, 229, 955-964).**
11. Shibiao Liu, **Xuchu Wang**, Minjing Shi *et al.* (2009) Vegetative storage protein with trypsin inhibitor activity occurs in *Sapindus mukorassi*, a sapindaceae deciduous tree (J Integ Plant Biol, 51, 352-359).