CURRICULUM VITAE-Tai Wang

Tai Wang, Ph.D, Professor

Principal Investigator of Research Group of Functional Proteomics for Reproductive Development in Institute of Botany, Chinese Academy of Sciences

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RESEARCH INTERESTS: Meiosis, male gametophyte and seed development in rice. Proteome and protein networks involved in male gametohyte and seed development.

EDUCTION:

1981-1985: B.Sc, Henan Normal University
1985-1988: M.Sc, Wuhan University
1995-1997: Ph.D, Institute of Botany, Chinese Academy of Sciences

HONORS AND AWARDS

1993-1994: UNESCO Fellow, Tokyo University, Japan
1997-1998: STA fellow, Research Center of Advanced Sciences, Japan Atomic Energy Institute, Japan.

APPOINTMENTS:

1988-current, Assistant, Associate Professor, Professor, Principal Investigator, Institute of Botany, Chinese Academy of Sciences (IB-CAS)
2001-current, Professor, Graduate University of Chinese Academy of Sciences
2002-current, Associate director of Research Center for Molecular and Developmental Biology, IB-CAS
2006-Current, Senior scientist, National Center for Plant Gene Research (Beijing)

PROFESSIONAL ACTIVITIES:

- Vice secretary-general, China Society for Botany (2003-2008)
- Vice director, Committee for Cell and Developmental Biology, China Society for Plant physiology and molecular biology (2005-current)
- Member, Committee for Proteomics (CNHUPO), Chinese Society for Biochemistry and Molecular Biology (2007-current)
- Regular member, American Society for Biochemistry and Molecular Biology (2007-current)
- Heading editor, Journal of Integrative Plant Biology (2003-2008)
- Associate editor, Chinese Bulletin of Botany (2003-current)

- Associate editor, Frontier in Biology (2010-current)
- Reviewer for internal journals: Journal of Proteome Research, Proteomics, Plant Physiology, BMC Plant Biology, Journal of Experimental Botany, Cell Research, Molecular Plant, Plant Molecular Biology, and others (about 20 manuscripts per year)
- Reviewer for grant proposals: NSF, NSFC

RECENTLY PUBLISHED PAPERS

An XJ, Deng ZY and ***Wang T** . OsSpo11-4, a rice homologue of the archaeal TopVIA protein, mediates double-strand DNA cleavage and interacts with OsTopVIB. PLoS ONE (in press)

Wang ZZ and ***Wang T**. Dynamic proteomic analysis reveals diurnal homeostasis of key pathways in rice leaves. Proteomics, 2011, 11:225-238

Han B, Chen S, Dai SJ, Yang N and ***Wang T**. Isobaric tags for relative and absolute quantification based comparative proteomics reveals the features of plasma membrane-associated proteomes of pollen grains and pollen tubes from Lilium davidii. Journal of Integrative Plant Biology, 2010, 52 : 1043–1058

Xu SB, Yu HT, Yan LF and ***Wang T**. Integrated proteomic and cytological study of rice endosperms at the storage phase. Journal of Proteome Research, 2010, 9:4906-4918

Wei LQ, Xu WY, Deng ZY, Su Zhen, Xue Y, and ***Wang T**. Genome-scale analysis and comparison of gene expression profiles in developing and germinated pollen in Oryza sativa. BMC Genomics, 2010, 11:338

Li T, Gong CY, and ***Wang T**. RA68 is required for postmeiotic pollen development in Oryza sativa. Plant Molecular Biology, 2010, 72:265-277

Xu SB, Li T, Deng ZY, Chong K, Xue YB, ***Wang T**. Dynamic proteomic analysis reveals a switch between central carbon metabolism and alcoholic fermentation in rice filling grains. Plant Physiology, 2008, 148:908-925.

Deng ZY and ***Wang T**. OsDMC1 is required for homologous pairing in Oryza sativa. Plant Molecular Biology, 2007, 65: 31-42.

Tao JY, Zhang LR, Chong K and ***Wang T**. OsRAD21-3, an orthologue of yeast RAD21, is required forpollen development in Oryza sativa. The Plant Journal, 2007, 51:919-930.

Dai SJ, Chen TT, Chong K, Xue YB, Liu S and ***Wang T**. Proteomic identification of differentially expressed proteins associated with pollen germination and tube growth reveals characteristics of germinated Oryza sativa pollen. Molecular & Cellular Proteomics, 2007, 6:207-230

Dai SJ, Li L, Chen TT, Chong K, Xue YB and ***Wang T**. Proteomic analyses of Oryza sativa mature pollen reveal novel proteins associated with pollen germination and tube growth. Proteomics, 2006, 6:2504-2529.

Zhang LR, Tao JY, Wang SX, Chong K and ***Wang T**. The rice OsRad21-4, an orthologue of yeast Rec8 protein, is required for efficient meiosis. Plant Molecular Biology, 2006, 60:533-554.

Wang R, Chong K and *__Wang T__. Divergence in spatial expression patterns and in response to stimuli of tandem-repeat paralogous encoding a novel class of proline-rich proteins in oryza sativa. Journal of Experimental Botany, 2006, 57:2887-2897.