

Ing-Feng Chang

Current address

Institute of Plant Biology
National Taiwan University
Taipei, Taiwan
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Education

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| 2000-2004 | Ph.D. | Plant Biology
University of California, Riverside, USA

Major Professor: Dr. Julia Bailey-Serres

Dissertation title: "Genomic and Proteomic
Characterization of cytosolic Ribosomes of
<i>Arabidopsis thaliana</i> " |
| 1994-1996 | M.S. (Botany) | National Taiwan University, Taipei, Taiwan
Institute of Botany, Academia Sinica, Taipei,
Taiwan

Major Professor: Dr. Chang-Hung Chou
(Professor in National Taiwan University and
Research Fellow in Institute of Botany,
Academia Sinica)

Thesis title: "Physio-Ecological Responses of
<i>Imperata cylindrica</i> var <i>major</i> from Different
Habitats to Flood and Saline" |
| 1990-1994 | B.S. (Botany) | National Taiwan University, Taipei, Taiwan |

Research experience

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| 2007-
2004- 2007 | Assistant Professor at Institute of Plant Biology, National Taiwan University, Taiwan
Post-Doctoral Fellow at Department of Biochemistry and Molecular Biology, University
of Nevada, Reno (PI: Dr. Jeffrey Harper) |
| 1998-2000 | Research Assistant at Institute of Botany, Academia Sinica, Taipei, Taiwan (with Dr.
Chou, Chang-Hung as PI and Dr. Yang, Chi-Ming as co-PI)
<ol style="list-style-type: none">1. Characterization of the flooding and salt tolerance mechanism of <i>Imperata
cylindrica</i> in Taiwan using physio-ecological approach2. Characterization of the effect of salt, humic substances and phenolic
compounds on Chlorophyllase a and b activity in rice Characterization of the
effect of humic substances on Chlorophyllase a and b activity in rice |

Teaching experience

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| 2007-
2003-2004 | Assistant Professor at Institute of Plant Biology, National Taiwan University, Taiwan
Teaching Assistant at Department of Biology, University of California, Riverside |
| 1994-1995 | Teaching Assistant at Department of Botany, National Taiwan University, Taiwan |

Membership

Member, American Society for Plant Biology

Member, American Society for Mass Spectrometry

Publications

1. **Chang, I. F.**, Chen, P. J., Shen, C. H., Hsieh, T. J., Hsu, Y. W., Huang, B. L., Kuo, C. I., Chen, Y. T., Chu, H. A., Yeh, K. W., Huang, L. C. 2010. Proteomic profiling of proteins associated with the rejuvenation of *Sequoia sempervirens* (D. Don) Endl. **Proteome Science** 8: 64
2. Hsu, J. L., Wang, L. Y., Wang, S. Y., Lin, C. H., Ho, K. C., Shi, F. K., **Chang, I. F.*** 2009. Functional phosphoproteomic profiling of phosphorylation sites in membrane fractions of salt-stressed *Arabidopsis thaliana*. **Proteome Science** 7: 42.
3. **Chang, I. F.**, Curran A., Woolsey R., Quilici D., Cushman J., Mittler R., Harmon A., Harper J. F. 2009. Proteomic profiling of tandem affinity purified protein complexes in *Arabidopsis thaliana*. **Proteomics** 9: 2967-2985.
4. Hsu Y. W., Sihgh S. K., Chiang M. Y., Wu Y. Y. and **Chang I. F.** 2009. Strategies to lower greenhouse gas level by rice agriculture. **African J Biotech.** 8: 126-132.
5. **Chang, I. F.** 2008. Ecotypic variation of a medicinal plant *Imperata cylindrica* populations in Taiwan: mass spectrometry-based proteomic evidence. **J. Med. Plant Res.** 2: 71-76.
6. Hsiao, H. Y. and **Chang, I. F.** 2008. Proteomic profiling of rat brain discharged by ultrasound associated with high frequency electro-magnetic field. **Proteomics Research Journal** 1: 41-53.
7. **Chang, I. F.** 2006. Mass-spectrometry based proteomic analysis of the epitope-tag affinity purified protein complex in eukaryotes. **Proteomics** 6: 6158-6166.
8. **Chang, I. F.** and Chou, C. H. 2006. Ecotypic variation of *Imperata cylindrica* populations in Taiwan: II. Physiological and biochemical evidences. **Botanical Studies** 47: 175-184.
9. Rodriguez Milla, M. A., Uno, Y., **Chang, I. F.**, Townsend, J., Maher, E. A., Quilici, D. and Cushman J. C. 2006. A novel yeast two-hybrid approach to identify CDPK substrates: Characterization of the interaction between AtCPK11 and AtDi19, a nuclear zinc finger protein. **FEBS L.** 580: 904-911.
10. Rodriguez Milla, M. A., Townsend, J., **Chang, I. F.** and Cushman, J. C. 2006. The *Arabidopsis AtDi19* gene family encodes a novel type of Cys2/His2 zinc-finger protein implicated in ABA-independent dehydration, high-salinity stress and light signaling pathways. **Plant Mol. Biol.** 61: 13-30.
11. **Chang, I. F.** and Hsiao H. Y. 2005. Induction of RhoGAP and pathological changes characteristic of Alzheimer's disease by UAHFEMF discharge in rat brain. **Current Alzheimer Research** 2:559-569.
12. Zanetti, M. E., **Chang, I. F.**, Galbraith, D. W. and Bailey-Serres, J. 2005. Immunopurification of polyribosomal complexes of *Arabidopsis* for global analysis of gene expression. **Plant Physiol.** 138: 624-635.
13. **Chang, I. F.***, Szick-Miranda*, K., Pan, S. and Bailey-Serres, J. 2005. (*: equal contributions) Proteomic Characterization of Evolutionarily Conserved and Variable Proteins of *Arabidopsis* Cytosolic Ribosomes. **Plant Physiol.** 137: 848-862.
14. Williams, A.*, Werner-Fraczek, J.*, **Chang, I.-F.*** and Bailey-Serres, J. (*: equal contributions) 2003. Regulated phosphorylation of 40S ribosomal S6 in root tips of maize. **Plant Physiol.** 132: 2086-2097.
15. Barakat, A., Szick-Miranda, K., **Chang, I. -F.**, Guyot, R., Blanc, G., Cooke, R., Delseny, M. and Bailey-Serres, J. 2001. The organization of cytoplasmic ribosomal protein genes in the *Arabidopsis* genome. **Plant Physiol.** 127: 398-415.