

Hairong Wei

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EDUCATION

- **Ph.D.**, Molecular Biology, University of Hawaii at Manoa, USA **2001**
- **M.S.**, Computer Science, University of Chicago, USA **2003**

PROFESSIONAL EXPERIENCE

- **Postdoctoral Follows**, Dept. of Biostatistics, University of Alabama at Birmingham. **July 2004 – Present**
 - Microarray data analysis using statistical and machine learning approaches.
 - DNA sequence analysis.
- **Research Scholar**, Supercomputing Institute, University of Minnesota **Mar 2003 – June 2004**
 - Database design & management.
 - Gene network construction.
 - Microarray data analysis
- **Senior Technologist**, Dept. of Immunology, University of Chicago **Sept 2001 – Feb 2003**
 - T, and NT cell biology.
 - Protein-protein interaction: yeast two hybrid system, GST pull-down, immunoprecipitation.
 - Performed flow cytometry, killing assay, proliferation assay, and antibody purification
- **Research Associate**, molecular biology, USDA laboratory, Hawaii **Jan 2001 – June 2001**
 - Gene silencing and the underlying mechanism.
- **Research assistant**, molecular biology, University of Hawaii at Manoa **Aug 1996 – Dec 2000**
 - Identification of differentially expressed genes.
 - Isolation and characterization of two constitutive gene promoters and two MARs

MOST RECENT PUBLICATIONS

Wei, H., Y. Kaznessis. Inferring gene regulatory relationships by combining target-target pattern recognition and regulator-specific motif examination. **Biotechnology and Bioengineering** (in press), 2004

Lee, K. M, H. Wei, and V. Kumar. Requirement of homotypic NK cell interaction through 2B4(CD244)/CD48 in the generation of NK effector functions. Submitted to *Journal of Experimental Medicine*.

Albert, H and H. Wei. Promoter of the sugarcane Ubi9 gene. 2004. U.S. Patent No. 6686513 B1 (<http://www.uspto.gov>).

Albert, H and H. Wei. Promoter of the Sugarcane Ubi4 Gene. 2003. U.S. Patent No. 6638766 (<http://www.uspto.gov>)

Lee, K.M., S. Bhawan, T. Majima, H. Wei, V. Kumar. 2003. Cutting Edge: The NK cell receptor 2B4 augments Ag-specific CTL activity through CD48 ligation on neighboring T cells. *The Journal of Immunology*. Vol.170

No10: 4881.

- Wei, H.**, H. Albert and P. Moore. 2003. Comparative expression analysis of two sugarcane polyubiquitin promoters and flanking sequences in transgenic plants. *Journal of Plant Physiology* 160, 1241-1251.
- Wei, H.**, H. Albert and P. Moore. 1999. Differential expression of sugarcane polyubiquitin genes and isolation of promoters from two highly expressed members of the gene family. *Journal of Plant Physiology*, Vol. 155, p513-519.

PRESENTATIONS / POSTERS

- Wei, H., Y. Kaznessis. Make sense of microarray data. The 2003 Annual Conference of American Institute of Chemical Engineers, Nov16-21, San Francisco, CA (Presentation)
- Wei, H.**, H. Albert and P. Moore. Characterization of two sugarcane polyubiquitin gene promoters and matrix attachment regions for gene regulation in monocots. The 2001 Plant & Animal Genome IX, San Diego, USA, 2001. (Presentation)
- Wei, H.**, H. Henrik and P. Moore. Isolation and characterization of two constitutive sugarcane gene promoters for genetic engineering of agriculturally important crops. Conference of Hawaii Sugarcane Technology, Maui, Hawaii (Poster) (1999).
- Moore, P., **H, Wei**, H. Albert. Expression of two sugarcane polyubiquitin promoters in transgenic sugarcane, rice and tobacco. The International Conference of Animal and Plant Genome in San Diego, USA, (Presentation) 1999
- Wei, H.**, H. Albert and Moore, P. Isolation and characterization of two strong constitutive promoters from sugarcane. 10th Ann. CTAHR Student Research Symposium. (Presentation). 1998.
- Wei, H.**, H. Albert and P. Moore. Isolation and transient expression of a strong gene promoter from sugarcane. The International Conference of Animal and Plant Genome in San Diego, USA, (Presentation), 1998
- Wei, H.**, H. Albert. Differential expression of sugarcane polyubiquitin genes. 9th Ann. CTAHR Student Research Symposium. (Poster) 1997.