



# The 6<sup>th</sup> Congress of Asian Society for Pediatric Research & 51<sup>st</sup> Annual Meeting of Taiwan Pediatric Association

April 15-18, 2010 Taipei, Taiwan



## QIANFEI JEFFREY WANG

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**Institution:** Beijing Institute of Genomics, Chinese Academy of Sciences

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**Title:** MLL Translocation: Epigenetic Landscapes in the Development of Acute Leukemia

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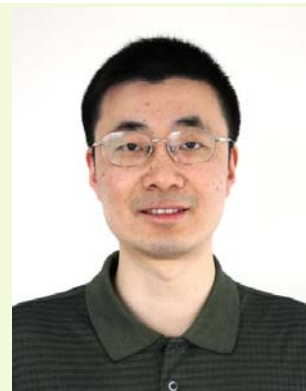
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### CURRENT POSITION :

- ◆ Professor, Cancer Genomics Group, Beijing Institute of Genomics

### EDUCATIONAL BACKGROUND :

- ◆ 2002 PhD, Cellular and Molecular Medicine, Johns Hopkins University
- ◆ 1993 Bachelor of Medicine, Shandong Medical University

### RESEARCH INTERESTS :

- ◆ The primary interest of my laboratory is to decipher the genetic and epigenetic basis controlling normal hematopoiesis and cancer cell transformation. By employing a combination of genomic and molecular characterization strategies, we aim to dissect the transcriptional network that dictates normal blood development and the initiation/progression of acute leukemia.
- ◆ Current areas of research include: (1) Transcriptional regulation of myeloid development; (2) Genetic and epigenetic regulation of gene expression as a mechanism of leukemogenesis; (3) Genetic alterations (specifically those involving regulatory DNA sequences) in human leukemia.

### PUBLISHED WORKS : (selected list)

- ◆ Li XM, **Wang QF**, Schofield B, Lin J, Huang SK, Wang Q. Modulation of antigen-induced anaphylaxis in mice by a traditional Chinese medicine formula, guo min kang. *Am J Chin Med*, 37(1):113-25, 2009.
- ◆ Wang CZ, Li XL, **Wang QF**, Mehendale SR, Fishbein AB, Han AH, Sun S, Yuan CS. The mitochondrial pathway is involved in American ginseng-induced apoptosis of SW-480 colon cancer cells. *Oncology Reports*, 21(3):577-84, 2009
- ◆ **Wang QF\***, Prabhakar S, Chanan S, Cheng JF, Rubin EM, Boffelli D\*. Detection of Weakly Conserved Ancestral Mammalian Regulatory Sequences by Primate Comparisons. *Genome Biology*. 8(1):R1, 2007 (Corresponding authors)
- ◆ **Wang QF**, Prabhakar S, Wang Q, Moses A, Chanan S, Brown M, Eisen M, Cheng JF, Rubin E, Boffelli D. Primate-Specific Evolution of an LDLR Enhancer. *Genome Biology*. 7(8):R68, 2006
- ◆ **Wang QF**, Liu, X., O'Connell, J., Peng, Z., Krauss, R., Rainwater D.L, Vandeberg J.L, Rubin, E.M., Cheng, J. F., and Pennacchio, L. A. Haplotypes in the APOA1-C3-A4-A5 Gene Cluster affect Plasma Lipids in both Humans and Baboons. *Human Molecular Genetics*. 13(10): 149-1056, 2004.
- ◆ R.G.Cleaves, **Q.F.Wang**, and A.D.Friedman. C/EBP $\beta$ p30, a myeloid leukemia oncoprotein, limits G-CSF receptor expression but not terminal granulopoiesis via site- selective inhibition of C/EBP DNA-binding. *Oncogene*, 23(3): 716-725, 2004
- ◆ Friedman AD, Keefer JR, Kummalu T, Liu H, **Wang QF**, Cleaves R. Regulation of granulocyte and monocyte differentiation by CCAAT/enhancer binding protein alpha. *Blood Cells Mol Dis*. 31(3):338-41, 2003



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- ◆ **Wang QF**, R.G. Cleaves, and A.D.Friedman. Cell cycle inhibition mediated by the outer surface of the C/EBPalpha basic region is required but not sufficient for granulopoiesis. *Oncogene*, 22(17):2548- 57, 2003
  - ◆ H.T. Liu, J.R. Keefer, **Q.F.Wang**, and A. D. Friedman. Reciprocal effects of C/EBP $\alpha$  and PKC $\delta$  on JunB expression and monocytic differentiation depend upon the C/EBP $\alpha$  basic region. *Blood*, 101(10):3885-92, 2003
  - ◆ **Wang QF**, A.D.Friedman. C/EBPs are required for granulopoiesis independent of their induction of the granulocyte-colony stimulating factor receptor. *Blood*, 99(8): 2776- 85, 2002.
  - ◆ **Wang QF**, J. Lauring, and M.S. Schlissel. c-Myb binds to a sequence in the proximal region of the RAG-2 promoter and is essential for promoter activity in T-lineage cells. *Molecular and Cellular Biology*. 20:9203-11, 2000.
  - XM. Li, BH. Schofield, **Q.F. Wang**, KH. Kim, SK. Huang. Induction of pulmonary allergic responses by antigen-specific Th2 cells. *Journal of Immunology*.160(3):1378- 84,1998.
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