

Huan-wei Wang, M.S.

State Key Laboratory of Medical Genomics

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EDUCATION

Shanghai Jiaotong University School of Medicine, Shanghai, China 2012-2015

M.S., Biochemistry and Molecular Biology

College of Pharmaceutical Sciences, Zhejiang University, Zhejiang, China 2008-2012

B.S., Pharmaceutical Sciences

RESEARCH INTERESTS

Now: genomics of hematologic malignancies, especially on acute myeloid leukemia (AML)

Future: computational biological, system biology and data mining in genetic disorders

AWARDS

Excellent Social Work Scholarship 2010

Outstanding Student Leader Awards 2010

Excellent Social Work Scholarship 2011

Excellent Student Awards 2011

Third-Class Scholarship for Outstanding Students 2011

Computational training and Skills

“Dragon Star” Program

Bioinformatics summer course

Computing for Data Analysis

The Data Scientist’s Toolbox

Introduction to Biology - The Secret of Life

Coursera or Edx online courses

Programming

Python, awk, R, shell scripts and limited database language (such as SQL and XML) and MATLAB skills

Bioinformatics analysis

ChIP-seq, RNA-seq, Microarray analysis, gene functional enrichment, machine learning

RESEARCH EXPERIENCE

Master student (**advisor: Kankan Wang, Ph.D., M.D.**)

Jul. 2012-present

State Key Laboratory of Medical Genomics Shanghai Institute of Hematology,
Rui Jin Hospital, Shanghai Jiao Tong University School of Medicine

- Analyzed next-generation sequencing and microarray data to elucidate the genome-wide interplay between fusion protein AML1/ETO and wild-type AML1 in the leukemogenesis of acute myeloid leukemia
- Identified the prognosis signature using TCGA data, such as RNA-seq, miRNA-seq and DNA methylation data
- Analyzed microarray data to identify the molecular mechanisms underlying fenretinide-induced leukemia stem cell apoptosis

Bachelor student (**advisor: Feng Han, Ph.D.**)

2008-2012

Institute of Pharmacology and Toxicology, College of Pharmaceutical Sciences, Zhejiang University

- Involved in evaluating the expression profiling of Ca⁺/calmodulin-dependent signaling molecules after acute Pb²⁺ exposure using basic molecular biological experiment and animal models

PUBLICATIONS

1. Hui Zhang, Jianqing Mi, Hai Fang, Zhao Wang, Chun Wang, Lin Wu, Bin Zhang, Mark Minden, Wentao Yang, **Huanwei Wang**, Junmin Li, Xiaodong Xi, Saijuan Chen, Ji Zhang, Zhu Chen, and Kankan Wang. Preferential eradication of acute myelogenous leukemia stem cells by fenretinide. Proc. Natl. Acad. Sci. U. S. A., 2013; 110: 5606-5611.
2. Yizhen Li, **Huanwei Wang**, Xiaoling Wang, Wen Jin, Yun Tan, Hai Fang, Saijuan Chen, Zhu Chen, and Kankan Wang. Genome-wide studies identify a novel interplay between AML1 and AML1/ETO in t(8;21) acute myeloid leukemia. Blood, 2015 (co-first author, online).