

Huan-wei Wang, M.S.

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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	

WORK EXPERIENCE

Bioinformatics engineer	2016 - present
GeneDock Inc., a bioinformatics cloud startup	
<ul style="list-style-type: none">- Develop and maintain cloud-based bioinformatics tools and pipelines, especially the whole-genome sequencing pipeline- Technically support clients and analysis the customer requirements	

RESEARCH INTERESTS

Past: 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

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, docker

Bioinformatics analysis

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

RESEARCH EXPERIENCE

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

2012-2015

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 micrarray 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 Univeristy

- Involved in evaluating the expression profiling of Ca^{+} /calmodulin-dependent signaling molecules after acute Pb^{2+} 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; 127(2): 233-242. (co-first author).