

# Ze TANG

Email: hawktang@gmail.com; Mobile: +65-8431 3420; +1-202 569 8391; Site: hawktang.com

## Professional Experience

### **Siemens Healthcare Diagnostics**

Jan 2014 – Feb 2016 (2 year 2 months) | Shanghai

- **Biochemist**

- Immunoassay reagent manufacturing troubleshooting
- CAPA (Corrective Action / Preventive Action)
- QA / QC (Quality assurance / Quality Control)
- GMP / GLP

- **National Technical Application Specialist (Great China)**

- Level 2 technical support for clinical chemistry  
Field technical support  
Remote technical support for Field Application Specialist  
Performance Verification (Proficiency testing)
- National Trainer for clinical chemistry and hematology  
5-day trainings for Field Application Specialist (Internal), 2-3/mth (Solo)  
2-day trainings for customers (External), 1-2/mth (Solo)
- Automation workflow project  
Remote control and data collection for all analyzers in Aptio automation workflow by mobile and laptop



## Education

### **PhD in Biochemistry, Molecular and Cell Biology**

Sep 2007 – Jul 2013

Institute of Health Sciences, Shanghai Institutes for Biological Sciences,

**Chinese Academy of Sciences** & Shanghai Jiao Tong University School of Medicine

Advisor: Prof. Kerong Dai, MD, Academician of the Chinese Academy of Engineering

### **MS in Immunology**

Sep 2005 – Jul 2007

Norman Bethune College of Medicine, Jilin University

### **MBBS (Bachelor of Medicine, Bachelor of Surgery)**

Sep 1999 – Jul 2004

Norman Bethune College of Medicine, Jilin University

## Technical Experiences

### Clinical Laboratory Automation (IVD)

Aptio (Inpeco FlexLab) Automation System; CentraLink Data Management System (Middleware); ADVIA/Dimension Clinical Chemistry System; Centaur XP/CP Chemiluminescence Immunoassay System; BD Aria & Calibur flow cytometry; ADVIA 2120i Hematology System; BN II/ProSpec Nephelometric System; CAP; ISO 15189

### Biochemistry, Molecular and Cell Biology

Roche Lightcycler 480 Real-Time PCR System; SNP genotyping (High Resolution Melt); ABI 7900HT/7500 Fast Real-Time PCR System; DNA/RNA isolation; Mesenchymal stem cell (MSC) isolation and culture; Multilineage induction of stem cells; Migration and invasion of tumor; Co-IP; Western blot; In cell western

### Histological Analysis

Immunohistochemistry (IHC); Immunofluorescence (IF); Hard tissue section; Frozen section; Alizarin red staining; Oil red O staining; ALP staining; Histomorphometry with Bioquant/Imagej; Carl Zeiss / Leica Confocal microscopy

### Medical Implant Model

Micro-CT analysis with Siemens Inveon Research Workplace (IRW); XRD (X-ray diffraction) analysis with MDI Jade; Femoral condyle implant model; Double fluorescence labeling in vivo; Laboratory animal handling

### Statistical Analytics

Python (Panda, matplotlib, Seaborn, Bokeh); R (ggplot2); JMP; SPSS; SAS; MS Excel

### Programming

Python; Java (w/ SCJP Cert); C; Javascript; Matlab; Octave

## Publications

- ❑ Ze Tang, Youtao Xie, Fei Yang, Yan Huang, Chuandong Wang, Kerong Dai, Xuebin Zheng, Xiaoling Zhang, Porous Tantalum coatings prepared by vacuum plasma spraying enhance BMSCs osteogenic differentiation and bone regeneration in vitro and in vivo. PLoS ONE, 8(6): e66263. [doi: 10.1371/journal.pone.0066263](https://doi.org/10.1371/journal.pone.0066263)
- ❑ Bing Tu, Lin Du, Qi-Ming Fan, Ze Tang, Ting-Ting Tang, STAT3 activation by IL-6 from mesenchymal stem cells promotes the proliferation and metastasis of osteosarcoma. Cancer Lett, 2012. 325(1): p. 80-8. [doi: 10.1016/j.canlet.2012.06.006](https://doi.org/10.1016/j.canlet.2012.06.006)
- ❑ Chunxi Yang, Guangyin Yuan, Jia Zhang, Ze Tang, Xiaoling Zhang, Kerong Dai, Effects of magnesium alloys extracts on adult human bone marrow-derived stromal cell viability and osteogenic differentiation. Biomed Mater, 2010. 5(4): p. 045005. [doi: 10.1088/1748-6041/5/4/045005](https://doi.org/10.1088/1748-6041/5/4/045005)

## Patents

- ❑ Xiaoling Zhang, Youtao Xie, **Ze Tang**, Kerong Dai. 2014. Medical composite material with improved osseointegration performance. Application No. CN 201310163527, May 3, 2013, Publication No. CN104127913 A, Nov 5, 2014. Patent Pending

## Referees

### **Prof. Kerong Dai, MD**

**Academician** of the Chinese Academy of Engineering; Director of Shanghai Joint Surgery Clinical Medical Center

Tel: +86-021-6313 9920

Email: [krdai@163.com](mailto:krdai@163.com)

### **Prof. Tingting Tang, MD, PhD**

Director of Shanghai Key Laboratory of Orthopaedic Implants and Associate Chairman of Department of Orthopaedic Surgery, Shanghai Ninth People's Hospital

Tel: +86-021-2327 1133

Email: [tingtingtang@hotmail.com](mailto:tingtingtang@hotmail.com)

### **Prof. Xiaoling Zhang, PhD**

Institute of Health Sciences, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences & Shanghai Jiao Tong University School of Medicine

Tel: +86-021-6385 5434

Email: [xlzhang@sibs.ac.cn](mailto:xlzhang@sibs.ac.cn)