

# Ze TANG

---

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

---

## Professional Experience

- **Siemens Healthcare Diagnostics (2014.1 – 2016.2)**
  - **National Technical Application Specialist (Greater China)**
    - Field based L2 technical support
    - Trainer and course developer
      - Solo 5 day Field Application training, 1-3/mth
      - Solo 2-3 day custom training, 1-2/mth
  - **Biochemist**
    - Scientist for Chemiluminescence Immunoassay
      - Troubleshooting and complex problem solving
      - Data statistical analysis



## Education

- **PhD in Biochemistry, Molecular and Cell Biology (2007.9–2013.8)**

Institute of Health Sciences, Shanghai Institutes for Biological Sciences (SIBS),  
Chinese Academy of Sciences (CAS) & Shanghai Jiao Tong University School of Medicine (SJTUSM)  
Advisor: Kerong Dai, Academician of the Chinese Academy of Engineering
- **MS in Immunology (2005.9–2007.7)**

Norman Bethune College of Medicine, Jilin University
- **MD (MBBS) (1999.9–2004.7)**

Norman Bethune College of Medicine, Jilin University

## Technical Experiences

- **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

- **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; ISO 15189

- **Histological Analysis**

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

- **Medical Implant Model**

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

- **Statistical Analytics**

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

- **Programming**

Python; Java (w/ SCJP Cert); C; Javascript; Linux Shell (awk/sed/grep)

## 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
- 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
- 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

## 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

- **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

- **Prof. Xiaoling Zhang, PhD**

Institute of Health Sciences, Shanghai Institutes for Biological Sciences (SIBS),  
Chinese Academy of Sciences (CAS) & Shanghai Jiao Tong University School of Medicine(SJTUSM)  
Tel: +86-021-6385 5434  
Email: xlzhang@sibs.ac.cn