Ze TANG

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Professional Experience

- Siemens Healthcare Diagnostics (2014.1 Present)
- National Technical Application Specialist
- L2 application support for Clinical Chemistry System
 Application support for Greater China
 Performance Verification (ISO 15189)
 (ADVIA/Dimension Clinical Chemistry System)
- Trainer and course developer
 5 day Field Application training, 2-3/mth (Solo)
 3 day custom training, 1-2/mth (Solo)
 (ADVIA/Dimension Clinical Chemistry System and
 BN II/ProSpec Nephelometric System)



Scientist for Chemiluminescence Immunoassay (TNI)
 Troubleshooting and complex problem solving
 Resultant data statistical analysis
 2 month trainee in Walpole, Boston
 (Centaur XP/CP Chemiluminescence Immunoassay System)



• 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 Advisor: Prof. Kerong Dai

• MS in Immunology (2005.9–2007.7)

Norman Bethune College of Medicine, Jilin University

• BS in Clinical Medicine (1999.9–2004.7)

Norman Bethune College of Medicine, Jilin University



Technical Experiences

• Clinical Laboratory Automation (IVD)

Trainer and L2 application support for Chemistry System

Scientist for Chemiluminescence Immunoassay system

Aptio (Inpeco FlexLab) Automation System; CentraLink Data Management System (Middleware); Lab
Automation workflow; ADVIA/Dimension Clinical Chemistry System; Centaur XP/CP Chemiluminescence
Immunoassay System; BN II/ProSpec Nephelometric System; Roche Lightcycler 480 Real-Time PCR
System; ABI 7900HT/7500 Fast Real-Time PCR System; ADVIA 2120i Hematology System; BD Aria &

Calibur flow cytometry; Performance Verification (ISO 15189)

Biochemistry, Molecular and Cell Biology

DNA/RNA isolation; Co-IP; Western blot; In cell western; Real-time PCR; MSC (Mesenchymal stem cell) isolation and culture; MSC multilineage induction on biomaterials; Tumor migration / invasion with Transwell and Matrigel (Basement Membrane Matrix); SNP genotyping (High Resolution Melt); qPCR; DNA/RNA extraction

• Histological Analysis

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

• Medical Implant Model

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

• Programming

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

• Statistical Analytics

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

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

Referees

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