JIANGBO TANG Ph.D.

With permit to work in the U.S.

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Exceptional geneticist and biochemist with expertise in cancer biology. Demonstrated ability to lead teams in collaborative environments. Proven ability to quickly advance complex research project with deep scientific insights. Motivated and diligent bench worker with exceptional experimental skills.

EDUCATION

Ph.D. in Human Genetics 2005-2010

University of Pittsburgh, Department of Human Genetics

Bachelor of Science 1997-2001

Wuhan University, Department of Biopharmaceutics, College of Life Sciences, China

EXPERIENCE

Postdoctoral Fellow University of Pennsylvania 2010-present

- Made major discovery about histone acetyltransferase Tip60 in tumor response to PARP inhibitors
- Performed, analyzed, and achieved excellent results using high throughput robotic siRNA screening
- Managed and participated in collaborations with groups both within the university and externally
- Supervised, mentored, and trained 6 rotating Ph.D., Ph.D./MD, and summer students
- Active reviewer of *Annals of Oncology*, *European Journal of Cancer Prevention*, *APJCP* etc.

Ph.D. Researcher University of Pittsburgh 2005-2010

- Discovered new mechanisms that are responsible for tumor chemotherapy resistance
- Developed approaches to sensitize Glioma to chemotherapeutics, including PARP inhibitors
- A patent was filed based on my research on Glioma chemotherapy
- Acquired a comprehensive and vigorous training in molecular biology, biochemistry and genetics; gained familiarity with statistics, association and linkage genetic analyses

Department Supervisor Genecore BioTechnologies Co., Ltd., Shanghai, China 2002-2004

- Led a 5-person team that provided genotyping services to researchers and clinicians
- Supervised the processes of data generation, data analyses and delivery to customers
- Interacted with customers to answer their technical inquiries

Research Assistant Tongji Hospital, Wuhan, China 2001-2002

- Established an associative link between cyclooxygenase-2 and occurrence of esophageal carcinoma

SKILLS AND TECHNIQUES

Protein biology: ELISA, Western blot, recombinant protein purification (with GST, His etc. tags), antibody purification, protein-protein/protein-inhibitor binding profiling with isothermal titration calorimetry (ITC), immunoprecipitation, immunocytochemistry, protein complex purification from mammalian cells for mass spectrometry, protein Coomassie/silver staining

DNA/RNA biology: DNA/RNA extraction, PCR, qPCR, DNA digestion/ligation, Southern blot, Northern blot, ChIP, ChIP-seq

Virus: production, purification of highly efficient retro- and lenti- viruses, virus titration, virus transduction

Cellular Biology: Mammalian and insect cell culture, cell cycle analysis, immunofluorescence, flow cytometry, cell sorting

Microscopy: bright field, fluorescent, confocal

Genetics: familiarity with biostatistics, association and linkage analyses; basic knowledge of SAS and R.

Computer skills: working knowledge of MS office (Word, Excel, Powerpoint, etc.), excellent coding ability using Java, PHP, HTML, CSS, JavaScript, and SQL, experience in Web development. Good understanding of network protocols (TCP/IP, HTTP, etc.)

Other: familiar with GMP and GLP

AWARDS & HIGHLIGHTS

2013 Poster Winner
Epigenetic Program Symposium Spring 2013, University of Pennsylvania, Philadelphia PA

2011 U.S. patent in alkylator chemotherapy
N-methylpurine DNA Glycosylase and Polymerase Beta as Biomarkers for Alkylator Chemotherapy Potentiation

2007 Outstanding presentation
9th Annual Midwest DNA Repair Symposium, Ohio State University, Columbus OH

2001 Prize for Outstanding Scientific Research
Bureau of Education and Research of Hubei Province, China

PUBLICATIONS

1. **Tang JB**, Cho NW, Cui GF, Manion EM, Shanbhag NM, Botuyan MV, Mer G, Greenberg RA. 2013. Acetylation limits 53BP1 association with damaged chromatin to promote homologous recombination. ***Nature Structural & Molecular Biology*** 20(3):317-325
2. Yang Q, Monticelli LA, Saenz SA, Chi AW, Sonnenberg GF, **Tang JB**, Obaldia ME, Bailis W, Bryson J, Toscano K, Huang J, Haczku A, Pear WS, Artis D, Bhandoola A. 2013. T Cell Factor 1 is required for group 2 innate lymphoid cell generation. ***Immunity*** 38(4):694-704
3. Domchek SM, **Tang JB**, Stopfer J, Lilli DR, Hamel N, Tischkowitz M, Monteiro AN, Messick TE, Powers J, Yonker A, Couch FJ, Goldgar DE, Davidson HR, Nathanson KL, Foulkes W, Greenberg RA. 2012. Biallelic Deleterious BRCA1 Mutations in a Woman with Early-Onset Ovarian Cancer. ***Cancer Discovery*** 3(4):399-405
4. Svilar D, Dyavaiah M, Brown AR, **Tang JB**, Li J, McDonald PR, Shun TY, Braganza A, Wang XH, Maniar S, Croix CM, Lazo JS, Pollack IF, Begley TJ, Sobol RW. 2012. Alkylation Sensitivity Screens Reveal a Conserved Cross-species Functionome. ***Molecular Cancer Research*** 10(12):1580-1596.
5. **Tang JB**, Svilar D, Trivedi RN, Wang XH, Goellner EM, Moore B, Hamilton RL, Banze LA, Brown AR, Sobol RW. 2011. N-methylpurine DNA glycosylase and DNA polymerase beta modulate BER inhibitor potentiation of glioma cells to temozolomide. ***Neuro Oncology*** 13(5):471-486.
6. Goellner EM, Grimme B, Brown AR, Lin YC, Wang XH, Sugrue KF, Mitchell L, Trivedi RN, **Tang JB**, Sobol RW. 2011. Overcoming temozolomide resistance in glioblastoma via dual inhibition of NAD+ biosynthesis and base excision repair. ***Cancer Research*** 71(6):2308-2317.
7. **Tang JB**, Greenberg RA. 2010. Connecting the Dots: Interplay Between Ubiquitylation and SUMOylation at DNA Double Strand Breaks. ***Genes Cancer*** 1(7):787-796.
8. **Tang JB**, Goellner EM, Wang XH, Trivedi RN, St Croix CM, Jelezcova E, Svilar D, Brown AR, Sobol RW. 2010. Bioenergetic metabolites regulate base excision repair-dependent cell death in response to DNA damage. ***Molecular Cancer Research*** 8(1):67-79.
9. Jelezcova E, Trivedi RN, Wang XH, **Tang JB**, Brown AR, Goellner EM, Schamus S, Fornsaglio JL, Sobol RW. 2010. Parp1 activation in mouse embryonic fibroblasts promotes Pol beta-dependent cellular hypersensitivity to alkylation damage. ***Mutation Research*** 686(1-2):57-67.
10. Trivedi RN, Wang XH, Jelezcova E, Goellner EM, **Tang JB**, Sobol RW. 2008. Human methyl purine DNA glycosylase and DNA polymerase beta expression collectively predict sensitivity to temozolomide. ***Molecular Pharmacology*** 74(2):505-16.
11. Jiang JG, **Tang JB***, Chen CL, Liu BX, Fu XN, Zhu ZH, Qu W, Cianflone K, Waalkes MP, Wang DW. 2004. Expression of cyclooxygenase-2 in human esophageal squamous cell carcinomas. ***World Journal of Gastroenterology*** 10(15):2168-2173. *, co-first authorship.