

## Science Bridges China Research Profile

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### SUMMARY OF MY RELEVANT RESEARCH AREAS:

Cancer Biology and translational research

### Primary Research interests:

Cancer Biology and translational research

### Topics in which you would like to develop collaborative research:

**Investigation of CYP1A1 as a therapeutic target in lung, and head & neck cancer**

### Relevant existing collaborations (academic/clinical/commercial) inside or outside China.

Prof Laurence H. Patterson, Professor of Drug Discovery & Director of Institute of Cancer Therapeutics, University of Bradford.

### Relevant graphics, figures, pictures:

### Publications and other outputs relevant to your interest in this programme

1. Mao L, Ding J, Zha Y, Yang L, McCarthy B, King W, **Hongjuan Cui**, Ding H. HOXC9 links cell cycle exit and neuronal differentiation and is a prognostic marker in neuroblastoma. *Cancer Res.*, 2011 Jun 15;71(12):4314-24. Epub 2011 Apr 20.
2. Gonit M, Zhang J, Salazar MD, **Hongjuan Cui**, Shatnawi A, Trumbly R, Ratnam M. Hormone depletion-insensitivity of prostate cancer cells is supported by the AR without binding to classical response elements. *Mol Endocrinol.* 2011 Apr;25(4):621-34. Epub 2011 Feb 17.
3. Tai Li, Zhao-Bo Cui, Xiao-Xue Ke, Juan Tan, Fang-Fang Li, Ting Li, Xiang-Wei Wang, and **Hong-Juan Cui**. Essential Role for p53 and Caspase-9 in DNA Damaging Drug-Induced Apoptosis in Neuroblastoma IMR32 Cells. *DNA and Cell Biology*, 2011 Dec;30(12):1045-50 Epub 2011 may 25.
4. Tai Li, Lin Wang, Xiao-xue Ke, Man Xu, Zhao-bo Cui, **Hongjuan Cui**, DNA damaging drugs-induced apoptosis sensitized by *N-myc* in neuroblastoma cells. *Cell Biology International*, Epub ahead of print, DOI 10.1042/CBI20110231.
5. Zhichuan Li, Zhongbing Zhang, Joe X. Xie, Xin Li, Jiang Tian, **Hongjuan Cui**, Hanfei Ding, Joseph I. Shapiro and Zijian Xie. Na/K-ATPase mimetic pNaKtide inhibits the growth of human cancer cells. 2011, *Journal of Biological Chemistry*, J Biol Chem. 2011 Sep 16;286(37):32394-403. Epub 2011 Jul 22.
6. Xiangwei Wang, Lunshan Xu, Jianhua Wan, Xueyang Gong, Kui Zhang, Liang Yi, Zhonghuai Xiang, Minhui Xu, **Hongjuan Cui**. Sonic Hedgehog pathway is essential for neuroblastoma cell proliferation and tumor growth. *MCBI*, accepted.
7. Yang L, **Hongjuan Cui**, Wang Z, Zhang B, Ding J, Liu L, Ding HF. Loss of negative feedback control of nuclear factor-kappa B2

- activity in lymphocytes leads to fatal lung inflammation. *Am J pathol*, 2010 Jun;176(6):2646-57. Epub 2010 Apr 2
8. Yang H, Zhu L, Ebraheim NA, Liu X, Castillo S, Tang T, Liu J, **Hongjuan Cui**. 2009, Analysis of risk factors for recurrence after the resection of sacral chordoma combined with embolization. *Spine J*. 2009 Dec;9(12):972-80. Epub 2009 Oct 1.
  9. Ling Mao, Yuan-Peng Xia, Yu-Nan Zhou, Ruo-Lian Dai, Xue Yang, Shu-Jie Duan, Xian Qiao, Yuan-Wu Mei, Bo Hu and **Hongjuan Cui**, 2009 A critical role of Sonic Hedgehog signaling in maintaining the tumorigenicity of neuroblastoma cells *Cancer Sci*. 2009 Oct;100(10):1848-55. Epub 2009 Jun 26,.
  10. Goleeta Alam, **Hongjuan Cui (co-principal author)**, Huilin Shi, Jane Ding, ling Mao, William A. Maltese, and Han-Fei Ding, MYCN promotes the expansion of Phox2B-positive neuronal progenitors to drive neuroblastoma development. *Am J Pathol*. 2009 Aug; 175(2):856-66. Epub 2009 Jul 16.
  11. RNAi-mediated silencing of the Bmi-1 gene causes growth inhibition and enhances doxorubicin - induced apoptosis in MCF-7 cells. Wu XM, Liu X, Bu YQ, Sengupta J, **Hongjuan Cui**, Yi FP, Liu T, Yuan CF, Shi YY, Song FZ. *Genet Mol Biol*. 2009 Oct;32(4):697-703. Epub 2009 Dec 1.
  12. Huilin Shi, **Hongjuan Cui**, Goleeta Alam, William Gunning, Andrea Nestor, David Giovannucci, Ming Zhang, Han-Fei Ding, 2008. Nestin expression defines both glial and neuronal progenitors in postnatal sympathetic ganglia, *Journal of Comparative Neurology*, 508: 867-878.
  13. **Hongjuan Cui**, Bo Hu, Tai Li, Jun Ma, Goleeta Alam, William T Gunning, and Han-Fei Ding, 2007. Bmi-1 is essential for the tumorigenicity of Neuroblastoma cells, *American Journal of Pathology*, 170 (4): 1370-1378.
  14. **Hongjuan Cui**, Jun Ma, Jane Ding, Tai Li, Goleeta Alam, and Han-Fei Ding, 2006, Bmi-1 regulates differentiation and clonogenic self-renewal of I-type neuroblastoma cells in a concentration-dependent manner, *Journal of Biological Chemistry*, 281 (45): 34696-34704.
  15. **Hongjuan Cui**, Tai Li, Han-Fei Ding, 2005, Linking of N-Myc to death receptor machinery in neuroblastoma cells, *Journal of Biological Chemistry*, 280: 9474-9481.
  16. Yongqing Wang, **Hongjuan Cui (Co-principal author)**, Allen Schroering, Jane L. Ding, William S. lane, Gaël McGill, David E. Fisher and Han-Fei Ding. 2002. NF- $\kappa$ B p100 is a pro-apoptotic protein with anti-oncogenic function. *Nature Cell Biology*. 4(11): 888-93.
  17. **Hongjuan Cui**, Allen Schroering, and Han-Fei Ding. 2002. p53 mediated DNA damaging drug-induced apoptosis through a caspase-9-dependent pathway in Sh-SY5Y neuroblastoma cells. *Molecular Cancer Therapeutics*. 1: 679-686.