Curriculum Vitae

Huawen Li

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Gender: male	
Date of birth:. Dec 29th, 1982	**Place of birth:** Sichuan province, P.R.C
Current residency: Bar Harbor	**Marriage Status:** Married

Research Experience

2012.6~2014.2

Postdoctoral associate, The Jackson Laboratory

(1)Heat shock response transcriptional factor and cancer

Using *Mad2* $^{+/-}$ Mouse model to study how heat shock response regulates aneuploidy associated tumor.

(2)Heat shock response regulate autophage.

2011.6~2012.2

Assistant research fellow, **Tian-xiang, Pang's Lab**

Institute of hematology, Center for Stem Cell Medicine, Chinese Academy of Medical Sciences & Peking Union Medical College

(1)Subtopic of The National Basic Research Program (973 **Program) for the study of normal HSC response to the leukemic niche.**

a. In charge of maintaining two mouse leukemia models caused by ectopic expression of MLL-AF9 and cytosol part of Notch1

b. Expression of lipocalin2 and regulation pattern in mouse model caused by ectopic expression of MLL-AF9

c. Drug accumulation of normal HSC under leukemic microenvironment

(2)Help new lab members to design experiments and associated preparing

a.CUE Domain Containing 2(CUEDC2) function in leukemia development . (assistance of plasmids construction， experiments design and discussion.

b.CIAPIN1 function and its functional downstream target finding.(assistance of

plasmids construction, preparing yeast two hybrid experiment, experiments design and discussion)

c.Role of CD44 –NHE1 protein complex in regulation metastasis and invasion in mammary cancer cell lines (luciferase report pasmids construction ,and discussion)

2008.5~2011.6

Tian-xiang, Pang's Lab

(1) **Inhibition of Na^+/H^+ Exchanger 1 (NHE1) can induce ER stress. Focused on Chop expression and its downstream target including Lipocalin2.**

In charge of designing whole plan and organization including main working of experiments.

(2) **Regulation of NHE1 expression in the context of DNA damage**

a. Focused on transcriptional regulation of NHE1 in the context of DNA damage induced by Etoposide.

b. Due to the limitation of NHE1 expression in K562 cells, focused on miRNAs affection on NHE1 mRNA degradation.

In charge of designing whole plan and organization including main working of experiments.

(3) **NHE1 function in regulation of invasion in Mammary tumor cell lines**.

In charge of plasmids construction, invasion evaluation, expression and discussion.

(4) **NHE1 function in multi drug resistance**

In charge of intracellular pH detecting, rodamine extrusion, detecting the response of MAPK signal cascade

2007.8~2008.4

Zhong-chao, Han's Lab

(1)Project of expanding the megakaryocyte progenitor of cord blood in vitro.

In charge of cell preparation from cord blood, preserving, and maintaining.

Mice seeding and monitoring.

(2)Transcriptional regulation of Survivin in K562 cells, in charge of realtime PCR, Western,etc.

Educational Background

2000.9 - 2005.6 Hebei Medical University clinical medicine Bachelor

2006.9 - 2011.6 **Peking Union Medical College** **pathology and pathophysiology** **Doctor**

Skills

Lab skills Gene cloning and plasmids construction including PCR technologies (such as RT-PCR, Overlapping PCR and Real-time PCR), recombinant plasmid construction ; Western blot; cell culture; FACS; ELISA; MTT testing; Luciferase report assay; Flow cytometry; mouse model seeding and analysis, etc.

Computer Efficient in taking advantage of Internet, and skilled in resource sourcing.
Skilled in software such as Office, Photoshop, SPSS.
Good mastery of bioinformation software: DNAMAN, Primer Premier, Oligo, FlowJo, etc.

Prizes and Rewards

2009 "Scholarship for Graduate Student" of Peking Union Medical College

2003 Champion of soccer union in Hebei medical university

Publications

- **Huawen Li,** Jian Wang, Lihong Wang, Wei Gao, Yani Lin, Weina Jin, Guoqiang Chang, Ruojun Wang, Qinghua Li, Li Ma, Tianxiang Pang. Cariporide sensitizes Leukemic cells to TRAIL by Up-regulation of Death Receptor 5 via ER stress- CHOP dependent Mechanism. Leuk Lymphoma; 2013 Nov 4.
- **Huawen Li**, Jian Wang, Lihong Wang, Wei Gao, Yani Lin, Weina Jin, Guoqiang Chang, Ruojun Wang, Qinghua Li, Li Ma, Tianxiang Pang. DNA damage induced Na^+/H^+ exchanger1 (NHE1) expression is inhibited in CML cells through c-MYC -miRNA 17-92 pathway. Plos One; submit
- Lihong Wang, **Huawen Li**, Jian Wang, Wei Gao, Yani Lin, Weina Jin, Guoqiang Chang, Ruojun Wang, Qinghua Li, Li Ma, Tianxiang Pang. C/EBP ζ targets to neutrophil gelatinase-associated lipocalin (NGAL) as a repressor for metastasis of MDA-MB-231 cells. Biochimica et Biophysica Acta 2011 Oct; 1813(10):1803-13. Epub 2011 Jun 30
- Wang LH, Chang GQ, Zhang HJ, Wang J, Lin YN, Jin WN, **Li HW**, Gao W, Wang RJ, Li QH, Pang TX. Neutrophil gelatinase-associated lipocalin regulates intracellular accumulation of Rh123 in cancer cells. Genes Cells. 2012 Jan 18.
- Weina Jin, Qinghua Li , Yani Lin, Ying Lu, **Huawen Li**, Lihong Wang, Ronghua Hu, Li Ma, Bin Li, Jianxiang Wang, Tianxiang Pang. Reversal of Imatinib resistance in BCR-ABL-positive leukemia patients after inhibition of the Na^+/H^+ exchanger. Cancer Lett. 2011 May 14; [Epub ahead of print]
- Qinghua Li, Lihong Wang, Yani Lin, Guoqiang Chang, **Huawen Li**, Weina Jin,

Ronghua Hu, Tianxiang Pang. Nuclear accumulation of Calcineurin B Homologous Protein 2 (CHP2) results in enhanced proliferation of tumor cells. Genes Cells. 2011; 16(4): 416-426.

- Ronghua Hu, Yan Yan, Qinghua Li, Yani Lin, Weina Jin, **Huawen Li**, Ying Lu, Tianxiang Pang. Increased drug efflux along with midkine gene high expression in childhood B-lineage acute lymphoblastic leukemia cells. Int J Hematol. 2010; 92(1): 105-110
- Lin YN, Chang GQ, Wang J, Jin WN, Wang LH, **Li HW**, Ma L, Li QH, Pang TX. NHE1 mediates MDA-MB-231 cells invasion through regulating MT1-MMP. Exp Cell Res. (2011); 317: 2031 – 2040
- Yan Yan, **Huawen Li**, Qinghua Li, Ronghua Hu, Tianxiang Pang. Role of Na^+/H^+Exchanger 1 in apoptosis of HL60 cells Induced by Etoposide and its mechanism. Journal of Experimental Hematology 2010 ; 18(3): 612- 616
- **Huawen Li** ,Lihong Wang, Jian Wang, Guoqiang Chang, Weina Jin， Yani Lin, We Gao i, Ruojun Wang, Tianxiang Pang.NHE1 expression affect apoptosis in K562 and HL60 cells underwent DNA damage. Journal of Experimental Hematology 2011; 19(4): 857-860
- Weina Jin, Ying Lu, Qinghua Li, Yani Lin, Lihong Wang, **Huawen Li,** Tianxiang Pang. Reversal of P-glycoprotein-mediated multidrug resistance by intracellular acidification through the crosstalk of MAPK signaling pathways. Genes Cells. 2011; (In revision)
- Weina Jin, Qinghua Li, Yani Lin, Wei Gao, **Huawen Li**, Lihong Wang, Guoqiang Chang, Ruojun Wang, Li Ma, Bin Li, Tianxiang Pang. Targeted inhibition of Na^+/H^+ exchanger 1 promotes hypoxia-induced differentiation of K562 leukemic cells via p38 MAPK pathway. Cell Bio Int. 2010; (In revision)