Ju-Mei Li (李如梅)

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SUMMARY OF QUALIFICATIONS

- Ph.D. degree and post-doctoral training in molecular & cellular biology and biochemistry with ten plus years' experience.
- Experience and strong publication records in studies of cell cycle control, DNA damage response and ubiquitination pathway with *ex vivo* cell culture system.
- Knowledge of diversified biomedical disciplines, including genetics, cell biology, biochemistry and immunology.
- Strong independent problem-solving skills and detailed attention to experimental design and execution.
- Ability to work in fast-paced environment and adapt to challenges.

SKILLS AND TECHNIQUES

- Mammalian cell culture experience with human breast cancer cell lines, prostate cancer cell lines, mouse stromal cells, mouse adipocytes and common cell lines
- Retrovirus and lentivirus packaging and transduction
- DNA and siRNA transfection
- Protein purification with mammalian cell, insect cell and bacterial expression systems
- Molecular cloning
- DNA and RNA isolation and analysis
- Immunoprecipitation and western blotting
- Flow cytometry & immunofluorescent staining
- Genetic screening in *S. cerevisiae*

RESERACH EXPERIENCES

University of Texas Health Science Center at Houston, Houston, TX
Post-doctoral fellow with Dr. Jianping Jin, 2008-present

- Identification of novel proteins involved in regulation of TNFα signaling pathway, including upstream IKK kinase activation, IκBα degradation and NF-κB activation.
- CRISPR/Cas9 system to study DNA damage response

Harvard Medical School, Boston, MA
Doctoral research assistant with Dr. Stephen Elledge (dissertation advisor), 2001-2008

- Genetic screens in *S. cerevisiae*:
  1. Isolation a novel protein of the DASH complex that is essential for proper chromosome segregations.
  2. Characterization of Msa1, a cell cycle regulated protein that promotes DNA replication.
- Fluorescent color based system to study protein stability change in response to ionic radiation.

National Yang-Ming University, Taipei, Taiwan
Master research assistant with Dr. Chungming Chang and Dr. Kingsong Jeng (thesis advisors), 1999-2001

- Establish stable clones of liver carcinoma cells to study covalently closed circular DNA of Hepatitis B virus

EDUCATION

Harvard Medical School, Boston, MA, 2008
Ph.D. in Biological and Biomedical Sciences

National Yang-Ming University, Taipei, Taiwan, 2001
M.S. in Microbiology and Immunology

National Taiwan University, Taipei, Taiwan, 1998
B.S in Horticulture

CONFERENCE ABSTRACT AND PRESENTATION

Li, J.M., Li, C., and Jin, J. [Poster presentation] Post-ubiquitinational Regulation of IκBα Proteolysis by the p97 Protein Complex and the 26S Proteasome. 2013. Cold Spring Harbor Laboratory Meeting on the Ubiquitin Family. Cold Spring Harbor, New York.

Li, J.M., and Jin, J. [Oral Presentation] Post-ubiquitinational Regulation of IκBα Degradation. 2011. Society of Chinese Bioscientists in America Society-Texas symposia, Houston, Texas.

PUBLICATIONS

1. **Li, J.M.**, Wu, H., Zhang, W., Blackburn, M.R., and Jin, J. 2014. The p97-NPL4-UFD1L complex mediates cytokine-induced IκBα proteolysis. *Mol. Cell Biol.* 34: 335-347.
2. Mar'echal, A., **Li, J.M.**, Ji, X.Y., Wu, C.S., Yazinski, S.A., Nguyen, H.D., Liu, S., Jim'enez, A.E., Jin, J., and Zou, L. 2014. PRP19 transforms into a sensor of RPA-ssDNA after DNA damage and drives ATR activation via a ubiquitin-mediated circuitry. *Mol. Cell.* 53: 235-246.
3. **Li, J.M.** and Jin, J. 2012. CRL ubiquitin ligases and DNA damage response. *Frontiers in Oncology.* 2:29.
4. Wu, J., Zhang, X., Zhang, L., Wu, C.Y., Rezaelan, A.H., Chan, C.H., **Li, J.M.**, Wang, J., Gao, Y., Han F., Jeong, Y.S., Yuan, X., Khanna, K.K., Jin, J., Zeng, Y.X., and Lin, H.K. 2012. Skp2 E3 ligase integrates ATM activation and homologous recombination repair by ubiquitinating NBS1. *Mol. Cell*. 11:351-361.
5. Rai R.*, **Li, J.M.***, Zheng, H., Lok, G.T., Deng, Y., Huen, M.S., Chen, J., Jin, J. and Chang, S. 2011. The E3 ubiquitn ligase Rnf8 stabilizes Tpp1 to promote telomere end protection. *Nat. Struct. Mol. Biol.* 18:1400-1407. (*-equal contribution)
6. Centore, R.C., Havens, C.G., Manning, A.L., **Li, J.M.**, Flynn, R.L., Tse, A, Jin, J, Dyson, N.J., Walter,J.C., and Zou L. 2010. CRL4(Cdt2)-mediated destruction of the histone methyltransferase Set8 prevents premature chromatin compaction in S phase. *Mol. Cell.* 40:22-33.

7. Naylor, M.L., **Li, J.M.**, Osborn, A.J., and Elledge S.J. 2009. Mrc1 phosphorylation in response to DNA replication stress is required for Mec1 accumulation at the stalled fork. *Proc Natl Acad Sci U S A.*106 (31): 12765-12770.
8. **Li, J.M.,** Tetzlaff, M., and Elledge S.J. 2009. Identification of *MSA1*, a cell cycle regulated, dosage suppressor of *drc1/sld2* and *dpb11* mutants. *Cell Cycle*. 7: 3388- 3398.
9. **Li, J.M.,** Li.Y., and Elledge S.J. 2005. Genetic analysis of the kinetochore DASH complex reveals an antagonistic relationship with the ras/protein kinase A pathway and a novel subunit required for Ask1 association. *Mol. Cell Biol.* 25:767-778.