

# Curriculum Vita

## Ying Lu

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### Professional and Teaching Experience:

- 2005 – 2006: Staff Research Associate, Dept. of Surgery, UC Davis Medical Center  
2003 – 2004: Post-doctoral Researcher, Dept. of Internal Medicine, UC Davis,  
2002 – 2003: Post-doctoral Fellow, Dept. of Environmental Toxicology, UC Davis  
1998 – 2002: Post-doctoral Fellow, Dept. of Internal Medicine, UTMB  
1992 – 1998: Teaching Assistant, Dept. of Microbiology and Immunology, UTMB
- 1989 – 1991: Resident and Echocardiography Specialist, Department of Internal Medicine, Shanghai East Hospital, Shanghai, P.R. China  
1981 – 1989: Technician, Cardiovascular Ultrasonography and ECG, Shanghai East Hospital, P. R. China  
1979 – 1981: Nurse, Department of Surgery, Shanghai Sixth Hospital, P. R. China

### Cell Biology and Molecular Biology

- *Cell culture*: preparing culture media, culturing a variety human primary cell lines, isolation and culturing lymphocytes from patient blood samples
- *Cloning*: DNA cloning, mutagenesis and expression vector construction in human primary cell lines.
- *Electrophoresis*: SDS-PAGE (protein analysis and gel separation), Western, Northern and Southern blots
- *DNA, RNA and Protein*: DNA and RNA isolation, spectrophotometer analysis, gel separation and purification, radioactive material labeling and hybridization
- *Microarray and Real-time PCR*: probe design, tissue and cell sample preparation and data analysis

### Immunology

- *Immunohistochemistry*: dissect and harvest tissues from mice, tissue fixation, paraffin-embedding, microtome tissue sectioning, HE and antibody staining and imaging analysis
- *Flow Cytometry*: lymphocyte phenotyping, antigen specific T-cell functional assay (intracellular cytokine production assay), cell cycle and apoptosis analysis
- *Polyclonal Antibody Production*: preparing antigens from *E. coli* culture, mice and rabbits immunization, antibody titration with ELISA and purification by chromatography

### Microbiology

- *Bacteria*: aerobic and anaerobic cultures, growth curve analysis, DNA mutagenesis and cloning, *E. coli* protein isolation and purification

- *HIV* infection and harvesting in human primary and fresh lymphocytes

#### Computer

- *Image Analysis* and documentations
- Excellent skills with Microsoft Word, Excel, Access and Power Point, Adobe Photoshop, statistic software in both PC and Macintosh

#### **Education:**

- 1992 – 1998: Ph.D., Department of Microbiology and Immunology,  
Graduate School of Biomedical Science  
University of Texas Medical Branch (UTMB)
- 1984 – 1989: M.D., General Medicine, Shanghai Second Medical University, P.R. China
- 1977 – 1979: Nursing, Shanghai Municipal Health School, P.R. China

**Other Training:** 2001, Advanced Management Certificate Program, University of Houston  
Clear Lake, Texas

#### **Publications:**

1. Libertini SJ, Tepper CG, Guadalupe M, **Lu Y**, Asmuth DM, Mudryj M. E2F1 expression in LNCaP prostate cancer cells deregulates androgen dependent growth, suppresses differentiation, and enhances apoptosis. *Prostate*. 2006 Jan 1;66(1):70-81.
2. Asmuth DM, Wang N, **Lu Y**, Li XD, Reece L, Terry NH, Pollard RB, Nokta M, Leary JF, White RA. Cell cycle kinetic dysregulation in HIV-infected normal lymphocytes. *Cytometry A*. 2005 Jul; 66(1):41-51
3. White RA, Asmuth DM, **Lu Y**, Wang N, Li XD, Reece L, Pollard RB, Nokta M, Leary JF, Terry NH. Estimating cell death in G(2)M using bivariate BrdUrd/DNA flow cytometry. *Cytometry A*. 2005 Jul;66(1):32-40
4. Phillips MA, Jessen BA, **Lu Y**, Qin Q, Stevens ME, Rice RH. A distal region of the human TGM1 promoter is required for expression in transgenic mice and cultured keratinocytes. *BMC Dermatol*. 2004 Apr 5;4(1):2.
5. Ray S, **Lu Y**, Kaufmann SH, Gustafson WC, Karp JE, Boldogh I, Fields AP, Brasier AR. Genomic mechanisms of p210BCR-ABL signaling: induction of heat shock protein 70 through the GATA response element confers resistance to paclitaxel-induced apoptosis. *J Biol Chem*. 2004. Aug 20;279(34):35604-15.
6. **Lu Y**, Jamieson L, Brasier AR, Fields AP. NF-kappaB/RelA transactivation is required for atypical protein kinase C iota-mediated cell survival. *Oncogene*. 2001 Aug 9;20(35):4777-92.

7. Brasier AR, Lu M, Hai T, **Lu Y**, Boldogh I. NF-kappa B-inducible BCL-3 expression is an autoregulatory loop controlling nuclear p50/NF-kappa B1 residence. *J Biol Chem.* 2001 Aug 24;276(34):32080-93.
8. **Lu Y**, Peterson JW, and Chopra AK. Immunogenicity of CT-B::DTxB, CT-B::PT-S1\*, S2, and CT-B::TT-B chimeric proteins: An approach to develop a safer DPT vaccine. *Vaccine Research* 1997 6:1-13.
9. **Press release: Lu Y**, Peterson JW, and Chopra AK, New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine. 1997. *American Society for Microbiology, general meeting.*
10. Peterson JW, **Lu Y.**, Duncan S, Cantu J, and Chopra AK. Interactions of intestinal mediators in the mode of action of cholera toxin. *Journal of Medical microbiology.* 1994 41:3-9.
11. **Lu Y.** "Development of a recombinant acellular diphtheria, tetanus and pertussis (DTP) vaccine." Ph.D. Dissertation, *University of Texas Medical Branch*, 1998.

#### **Abstracts and poster presentations:**

**Y. Lu**, W. Craig, G. Espinal, B. Hammock, K. Schmelzer, C. Troppmann, J. McVicar, T. Weaver, R. Perez; Association of pre transplant pro inflammatory adipokines and renal allograft outcome – a pilot study report of pre transplant retroperitoneal adipose tissue gene expression. *First Academic Surgical Congress meeting, San Diego, CA, 2005*

**Lu Y**, Peterson JW and Chopra AK; New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine. *James W. McLaughlin Colloquium, UTMB, Galveston, TX, 1995, 1996, and 1997*

**Lu Y**, Peterson JW and Chopra AK; New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine. *American Society for Microbiology and General Meetings, 1995 and 1997*

**Lu Y**, Peterson JW and Chopra AK; New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine. The 37<sup>th</sup> *Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAC)*, Toronto, Canada, 1997

**Lu Y**, Peterson JW and Chopra AK; New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine. *The Texas Branch of the American Society for Microbiology and General Meeting, Austin, TX, 1996*

#### **Awards:**

1996: S. E. Sulkin award. New approach to develop a safer recombinant diphtheria, pertussis, and tetanus (DPT) vaccine, *The Texas Branch of the American Society for Microbiology, annual meeting*

1995-1998: Pre-Doctoral Scholarship, James W. McLaughlin Foundation, UTMB

**Membership in Scientific Societies:**

1996 – Present	Sigma Xi, The Scientific Research Society
1996 – 1999	American Society for Microbiology
1997 – 1998	American Association for the Advancement of Science