

# Curriculum Vitae

## **Xiaoli TIAN, Post-doctoral Research Associate**

University of North Texas Health Science Center.

3500 Camp Bowie Blvd.

Fort Worth, Texas, 76107, USA

Mobile: 402-617-9255

E-mail: [tianxiaoli777@gmail.com](mailto:tianxiaoli777@gmail.com)

[xiaoli.tian@unthsc.edu](mailto:xiaoli.tian@unthsc.edu)

## **EDUCATION**

- |                      |   |
|----------------------|---|
| Sep.2003 - July.2007 | Ph.D., Clinical Pharmacology<br>Clinical Pharmacology, Academy of military Medical Sciences,<br>Beijing, China<br><a href="http://www.bmi.ac.cn/">http://www.bmi.ac.cn/</a> |
| Sep.1999 - July.2002 | M.S., Pharmaceutics<br>Xinjiang Medical University, Urumqi, Xinjiang, China.<br><a href="http://www.xjmu.org/">http://www.xjmu.org/</a>                                     |
| Sep.1992 - July.1996 | B.S., Pharmacy<br>Xinjiang Medical University, Urumqi, Xinjiang, China  |

## **WORKING EXPERIENCE**

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|---|--|
| May.2013- Aug.2013<br>(Set up a new lab and warm up it) | Post-doctoral Research Associate , Biomedical Science<br>System College of Pharmacy, University of North Texas Health Science Center, Fort worth, TX.<br><a href="http://unthsc.edu/">http://unthsc.edu/</a> |
| Nov.2011- Apr.2013                                      | Post-doctoral Research Associate , Biomedical Science<br>University of Nebraska-Lincoln, Lincoln, NE.<br><a href="http://unl.edu/">http://unl.edu/</a>   |

May 2011 – Sept. 2011 **Visiting scholar in Neuropharmacology**  
 and May 2009 - Oct. 2009 Lab of Neuropharmacology, Univ Paris-Sud, Paris, France.  
<http://www.u-psud.fr/>

Jan.2008 - Apr. 2011 **Post-doctoral Research Associate in Pharmacology**  
 National Center for Drug Screening, China Pharmaceutical University,  
 Nanjing, China.  
<http://cpu.edu.cn/>

Aug. 2007 - Jan. 2008 **Lecturer in Pharmacology**  
 Xinjiang Medical University, Urumqi, Xinjiang, China

Jul. 2002 - Aug. 2003 **Lecturer in Pharmacology**  
 Xinjiang Medical University, Urumqi, Xinjiang, China

Jul. 1996 - Aug.1999 **Assistant in Pharmaceutical Analysis**  
 Xinjiang Medical University, Urumqi, Xinjiang, China

## **RESEARCH STRENGTHS and SKILLS**

### **Cell and Molecular biology**

- DNA and RNA isolation and purification, nucleic acid quantification and electrophoresis; PCR and reverse transcription-PCR (RT-PCR), genotyping for gene knock down and transgenic animals, mitochondria extraction.
- Protein expression, isolation and purification, protein electrophoresis, protein assay, western blot analysis; ELISA, immunohistochemistry, Immunoprecipitation(IP) in situ hybridization; basic local alignment search tool (BLAST).
- Primary cell culture including cortex and hippocampus neuron culture, retina pigment epithelium cell and lens epithelium cell culture; culture of commonly used cell line; cell co-culture; cell proliferation and cell viability assay; cell transfection; flow cytometry and laser scanning confocal microscope (LSCM).

### **Pharmacology**

- **Animal Experiment Techniques:**

Have strong skills in handling of rodent laboratory animals of mouse, rat and guinea pig,

other laboratory animal, such as rabbit. Skilled on animal dissection, including mouse and rat brain dissection, and eye globe dissection of mouse, rat, bovine and porcine.

Set up disease animal model: anxiety and depression mouse model; double gene knock-down cataract mouse model; alcoholic fatty liver model; chemical induced liver fibrosis model; Immune aggression liver injury model; diabetic rat model; vitiligo skin diseases model.

- **Basic Experimental Technology of Pharmacology**

Skilled on drug-delivery way and anesthesia, proficient on obtaining blood and tissue samples from laboratory animals; familiar with in vivo analysis of rodent models; familiar with the laboratory animal breeding technique; LD50 and ED50 determination, drug toxicity experiment, anti-cancer pharmacodynamics experiment and pharmacodynamics comparative experiment.

- **Clinical Pharmacology and New Drug Pharmacology**

Skilled on preclinical pharmacology experiment in vivo and in vitro; familiar with standard procedure of clinical pharmacological experiment and new drug screening procedure.

- **Pharmaceutical Analysis Technique**

Familiar with using High Performance Liquid Chromatography (HPLC) and Ion Exchange Chromatography(IEC).

## **Biotechnology**

- Protein biomarker discovery skilled on using Surface Enhanced Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (SELDI-TOF-MS) to detect and capture biomarker of fluid, blood and tissue samples.
- Data analysis of gene expression array.

## **Biochemistry**

- Biochemical index determination, including ATP assay, lactate dehydrogenase(LDH) and glutathione assay, protein-SS-Glutathione (PSSG) and protein-SS-cysteine(PSSC) assay.
- Protein assay, paper chromatography for separating amino acids.
- DNA agarose gel electrophoresis

## Other Related Technology

- Micro-dialysis technique: used for monitoring the neurotransmitter (5-HT, NE and Dopamine) outflow from cerebral cortex and hippocampus of awake animals.
- Behavioral experiment: to test neurobehavioral changes of depression or anxiety animal model.

## Herbal Medicine Research

- Skilled on extraction, separation, purification and identification of component from Chinese Herbal Medicine.
- Activity evaluation of effective component extracted from Chinese Herbal Medicine in vivo and in vitro

## **RESEARCH EXPERIENCE**

- Research on the redox regulation and the biochemical mechanism of cataract formation; Expression and distribution of thiol-regulating enzyme, glutaredoxin 2 in porcine ocular tissues; Oxidative stress-induced retinal pigment epithelial cell (RPE) apoptosis.  
( **Post-doctoral Research Associate, University of Nebraska-Lincoln and University of North Texas Health Science Center, Nov.2011- Present** )
- The exploration of molecular mechanism between depression and vitiligo—research of the Brain-Skin-Connection based on systems biology. (**China Pharmaceutical University, Nanjing, China. Jan.2008 - Aug. 2011**)
- Using micro-dialysis technology to observe 5-HT outflow in mouse hippocampus that effected by Chinese herbal extracts. (**Université Paris-Sud, Paris, France. May - Oct. 2009 and May- Sept. 2011**)
- The study on inducing expression of metallothionein and the protection on liver fibrosis by selenium. (**Ph.D., Academy of military Medical Sciences, Beijing, China. Sep. 2003 - July.2007**)
- Extract the activity constituents from Xinjing Peganum Hamala seeds and study on its anti-tumor activity. (**M.S., Xinjiang Medical University, Urumqi, Xinjiang, China. Sep. 1999 - Jul. 2002**)

- Involved in research: Innovative drug research on treatment of vitiligo autoimmune disease. **(China Pharmaceutical University, 2008-2011)**
- In charge of cooperation projects (with a company of New Zealand): Evaluation the effect of a Polypeptide sample on skin inflammation. **(China Pharmaceutical University, 2009)**

## **PUBLICATIONS**

### **Journal Articles**

1. He Sun, Xiao-yong Xu, **Xiao-li Tian**, Hong-tao Shao, Xiao-dong Wu, Quan Wang, Xin Su1, Yi Shi. Activation of NF- $\kappa$ B and Respiratory Burst following *Aspergillus fumigatus* Stimulation of Macrophages. **Immunobiology**. **2013 (June, accepted)**
2. Jie Zhang, Hong Yan, Stefan Lofgren, **Xiaoli Tian**, Marjorie F. Lou. Ultraviolet Radiation-Induced Cataract In Mice: The Effect Of Age And The Potential Biochemical Mechanism. **Invest. Ophthalmol. Vis. Sci.** 2012, 53(11):7276-85.
3. Sha Liao, Jing Shang, **Xiaoli Tian**, Xueqi Fan, Xiupu Shi, Siran Pei, Qian Wang and Boyang Yu. Up-regulation of melanin synthesis by the anti-depressant fluoxetine. **Exp Dermatol**. 2012, 21(8):635~637.
4. **Xiaoli TIAN**, TANG Xin, GUO Jun-hua, et al. Metallothionein Induced by Selenium and the Protection on Mice Liver Injury of Selenium-Metallothionein. **China Biotechnology**, 2006, 26(6):23~29.
5. **Xiaoli TIAN**, TANG Xin, GUO Jun-hua, et al. Establishing the Alcoholic Hepatic Injury Model and Finger Print of Protein Express Change of Rats. **LETTERS IN BIOTECHNOLOGY**, 2006, 17(4): 530~534.
6. **Xiaoli TIAN**, Jie YANG. Advances in Study on TGF- $\beta$ . **J Prev Med China PLA**. 2006, 24(2):145~148.
7. Gang ZUO, Hui-ming HAN, **Xiaoli TIAN**, et al. Antisense Sites Screening of Fas Gene mRNA and Its Validation in vitro. **China Biotechnology**. 2006, 26(4):20~26.
8. **Xiaoli TIAN**, GUO Jun-hua. Advances in Study on Metallothionein. **Foreign Medical Sciences Section on Pharmacy**. 2005, 32(2):119~124.
9. TANG Xin, **Xiaoli TIAN**, GUO Jun-hua. Protein-Chip Technology. **Chinese Journal of Practical Medicine**. 2005, 5(8):726~728.

## **Presentations and Abstracts**

1. **Xiaoli TIAN.**, Bijaya P.Upadhyaya., Hongli Wu., Lou MF. Expression and distribution of thiol-regulating enzyme, glutaredoxin 2 in porcine ocular tissues. Annual Meeting Abstract and Program Planner accessed at [www.arvo.org](http://www.arvo.org). **Association for Research in Vision and Ophthalmology. Platform presentation, ARVO, May 2013.**
2. **Xiaoli TIAN.**, Hongli Wu., Changmei Guo., Peter F. Kador.; Lou MF. Development of a new mouse model with Grx1 and Grx2 heterozygous gene knockout. Abstract, **University of Nebraska-Lincoln Redox Biology Center Annual Retreat**, April 2012.
3. **Xiaoli TIAN.**, TANG XIN. Searching biomarker and researching the protection of selenium-metallothionein on rat fibrosis model by using SELDI technology. Abstract. **National Pharmacology Conference & Chinese Young Researchers' Symposium on Pharmacology**, 2005.
4. **Xiaoli TIAN.**, TANG XIN, GUO JUN-HUA. Researching the Protection of Selenium-metallothionein on Mouse Liver Fibrosis and Searching Biomarker of Mouse Liver Fibrosis Model by Using SELDI Technology. METALS AND METALLOTHIONEIN IN BIOLOGY AND MEDICINE. Abstract. **MT-2005 the fifth international conference on metallothionein**, Beijing, China Oct. 8-12, 2005.

## **Manuscripts in preparation**

1. **Xiaoli TIAN.**, Bijaya P.Upadhyaya., Hongli WU and Marjorie F. Lou. Expression and distribution of redox regulating enzyme glutaredoxin 2 in porcine ocular tissues.
2. **Xiaoli TIAN.**, G.Bruno., Uguyen Thanh Hai., C. Francois., Jing SHANG and A.M.Gardier. Study on anti-depressant like action of piperine.
3. **Xiaoli TIAN.**, Jing Shang., Coudore Francois. (Review) Piperine: From the new perspective to see its pharmacological function.

## **HONORS and AWARDS**

- Excellent Poster Award on research in metallothionein at the Fifth International conference of Metallothionein (2005)

- Outstanding Post Graduate of Xinjiang Medical University (2002)
- LIAN-BANG Educational Scholarship (2000-2001)
- Post-graduate scholarship of Xinjiang Medical University (1999-2002)
- Outstanding Graduate of Xinjiang Medical University (1996)
- Outstanding Student Cadre of Xinjiang Province (1995)
- Scholarship of Xinjiang Medical University (1992-1996)

## **HOBBIES and OTHER INTERESTS**

- **Singing:** specialize in Chinese folk songs and receiving numerous honors.
- **Chinese music instruments:** The Chinese traditional music instrument of GU-ZHEN.

## **REFERENCES**

**1. Marjorie Lou:** Willa Cather Professor of Biomedical Sciences, University of Nebraska-Lincoln.

134 VBS, University of Nebraska-Lincoln, east campus, fair St,  
Lincoln, NE, 68583-0905,USA.

E-mail:mlou1@unl.edu;

Tel: 402-472-0307; Fax: 402-472-9690

**2. Alain M. Gardier:** Pharm D, PhD. Professor of College of Pharmacy, Univ Paris-Sud.

EA3544. Laboratoire de neuropharmacologie, Tour D1. 2<sup>é</sup>age.

5, Rue J-B Clément, 92296 Châtenay-Malabry. France.

E-mail: alain.gardier@u-psud.fr;

Tel:(33)146835416;Fax:(33)146835355

**3. Coudore Francois:** MD, PhD. Professor of College of Pharmacy, Univ Paris-Sud.

EA3544. Laboratoire de neuropharmacologie, Tour D1. 2<sup>é</sup>age.

5, Rue J-B Clément, 92296 Châtenay-Malabry. France.

E-mail: coudore@hotmail.com; francois.coudore@egp.aphp.fr