

CURRICULUM VITAE

PERSONAL INFORMATION

FULL NAME Liang Jin (Jin is my family name)

DATE OF BIRTH 13th October, 1973

GENDRE Male

MARRIAGE Single

NATIONALITY P.R. China

CONTACT DETAILS: **Address:** Department of Immunology

The Fourth Military Medical University

Chang Le West Street 17

Xi'an 710032

Shaan Xi Province, P.R China

Tel: Work: 86-29-84774531 extension: 804

Private: 86-13072903460

Fax: 86-29-83253816

Email: jinl73@hotmail.com

EDUCATION:

Undergraduate:

1993-1998

Degree Awarded: Bachelor's degree in Clinical Medicine

Course Duration: 5 Years

Year of Award : 1998

Institution : The Fourth Military Medical University

Postgraduate:

1998-2001

Degree awarded: Master's degree (Mphil) in neuroscience

Course Duration: 3 Years

Year of Award : 2001

Institution : Institute of Neuroscience, The Fourth Military Medical University.

2001-2004

Degree awarded: PhD in neuroscience

Course Duration: 3 Years

Year of Award : 2004

Institution : Institute of Neuroscience, The Fourth Military Medical University.

RESEARCH EXPERIENCE:

In Mphil study in neuroscience, my research was focused on the regulatory role of oxytocin in T-lymphocytes development in thymus. The cyclic peptide oxytocin consists of 9-amino acids, and is mainly secreted by the neuroendocrine cells in the mammal's hypothalamus. Oxytocin is also produced by thymic endothelial cells and some endocrine cells in reproductive organs. What we wanted to know is whether oxytocin can influence the proliferation and differentiation of thymic T cells. I performed the T cell proliferation assay via ^3H incorporations method, and produced monoclonal antibodies against oxytocin to block oxytocin in vivo by using those antibodies. I successfully obtained hybridomas secreting highly specific antibodies to oxytocin, and those antibodies were proven to be very useful in immunocytochemistry studies. However, no substantial evidences were acquired about relationships between oxytocin and T lymphocytes development both in vitro and in vivo.

In PhD study in neuroscience, my research was transformed to oxytocinergic neurons in hypothalamus and oxytocin receptor (a G-protein coupled, seven transmembrane protein) functions. Via immunocytochemistry studies, I found that one or two unique nicotinic acetylcholine receptors are specifically localized to oxytocin neurons in rat hypothalamus, this finding may shed light on the further physiology or development research on those neuroendocrine neurons. Furthermore, I cloned mouse and rat oxytocin receptor (OTR) gene, and prokaryotically expressed a part of coding sequence for rat OTR gene.

I was awarded the prestigious Dr Cheng Yu-Tung Fellowship in 2001, and from June 2002 to December 2002, I studied in the Department of Biochemistry, Faculty of Medicine, University of Hong Kong, trained in molecular cloning and In Situ hybridization techniques.

After my Ph.D graduation, I found myself more interested in immunology than in neuroscience, so I went to an immunology lab and have been working there since. My main research project in immunology was immunoglobulin super-family (IgSF) members mediated interaction between epithelial cells and immune cells. From 2004 till now, I've made some

progress in finding new ligands for immune cells (especially myeloid cells) membrane IgSF molecules. During my postdoctoral studies, I've gained much insight into cellular and molecular immunology and thereby learned tissue culturing techniques, created B-lymphocyte hybridomas, purified and characterized monoclonal antibodies. I've also established several stably transfected cell lines and affinity-purified the eukaryotically expressed fusion proteins. Using those fusion proteins, I performed ligand binding assay via flow cytometry and ELISA. In addition, I have been experienced in mouse bone marrow derived mast cells (BMMC) establishment and degranulation assay, RNA isolation works, recombinant DNA techniques, immunoblotting, fluorescent microscopy and had some knowledge in working with mice and rats.

MAJOR PUBLICATIONS:

1. Jin Liang, Yang Tang-bin, Liu Xue-song et al. The Establishment of Hybridomas Secreting High Titer of Monoclonal Antibodies to Oxytocin. ShangHai Journal of Immunology. 2001. (3):180-181
2. HL Liu, R Cao, L Jin, LW Chen. Immunocytochemical localization of substance P receptor in hypothalamic oxytocin-containing neurons of C57 mice. Brain Res. 2002 Sep 6; 948(1-2):175-179.
3. Liang Jin, Rui Liu, Gui-ping Wang, Ping Zhang, Gong Ju. Nicotinic receptor alpha subunits in magnocellular neurons of rat hypothalamus. Neuroreport. 2004 Oct 25; 15 (15):2333-2336.
4. L Jin, wei-lin Jin, g Ju. Cloning of the complete coding sequence of mouse oxytocin receptor gene and its eukaryotic expression. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi. 2004 Jul; 20(4):491-4. Chinese
5. L Jin et al. The Clonings and Expressions of Human and Murine CD111 Encoding Sequences. The 1st World Chinese Conference on Immunology. P147; Shang Hai , 2007 July.
6. Liang Jin, Chao-jun Song, Bo-quan Jin , Yu Zhang. Generation of Monoclonal Antibodies Against Mouse/rat Hemokinin-1. Hybridoma 2009;28 (4) (in publication)
7. Song C, Wang F, Jin L, Chen L, Qin W, Yang A, Yang K, Jin B. J Immunol Methods. 2009 Apr 15;343(2):130-3.

MAIN RESEARCH SKILLS:

Excellent cell culture techniques: especially transfection of plasmids or infections of virus particles into cell lines, protein expression and test by Flow Cytometry, ELISA and ELISPOT; fused cell establishment like B-cell hybridoma; primary cell culture of neuroglial cells, thymic cells, spleen cells etc.

Excellent molecular cloning techniques, with experience of establishing over 50 plasmids. Purification of monoclonal and polyclonal antibodies and immuno-affinity purification of eukaryotically expressed tagged proteins. Western Blot analysis and immunoprecipitations.

Rich experiences of morphological works like immunocytochemistry, immunoelectronmicroscope; in situ hybridization experience; good techniques of handling with animals like mouse or rat (including surgical operations on rats).

Unique experience of developing mast cells derived from the mouse bone marrow and testing the tryptase level in degranulation assay of mast cells.

RESEARCH INTERESTS AND HOBBIES:

What interests me most now is mainly immunology. My research interests lie in the fields such as epithelial cell interaction with immune cells by adhesion molecules; dendritic cell and T lymphocytes education; allergy and immune system; virus and immune system; tumor invasions and innate immunity etc. and some very closely related fields like signal transductions or apoptosis in immune cells.

My hobbies are mainly tennis, basketball and swimming and I love western classic music

and Chinese traditional music very much.

References:

Professor Bo-quan Jin
Department of Immunology
Fourth Military Medical University
Xi'an, Shaan Xi province
PR China
E-mail: immu_jin@fmmu.edu.cn
Telephone: 86-29-84774598
Fax: 86-29-83253816

Professor An-gang Yang
Director
Department of Immunology
Fourth Military Medical University
Xi'an, Shaan Xi province
PR China
E-mail: agyang@fmmu.edu.cn
Telephone: 86-29-84774528
Fax: 86-29-83253816

Professor Gong Ju
Director
Institute of Neuroscience
Fourth Military Medical University
Xi'an, Shaan Xi province
PR China
E-mail: jugong@fmmu.edu.cn
Telephone: 86-29-84774558
Fax: 86-29-83286270