

Curriculum Vitae

Si-Tse Jiang 蔣思澈, Ph.D.

Scientist May 2011-present
National Laboratory Animal Center
National Applied Research Laboratories
No. 17, Nanke 2nd Rd., Sinshih,
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Associate Professor (Jointly Appointed) Aug 2010-present
Institute of Clinical Medicine
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EDUCATION

Doctor of Philosophy, Basic Medical Sciences,
National Cheng-Kung University, Taiwan, 2000

Master of Science, Basic Medical Sciences,
Chung-Shan Medical and Dental College, Taiwan, 1992

Bachelor of Science, Medical Technology,
Chung-Shan Medical and Dental College, Taiwan, 1990

PROFESSIONAL EXPERIENCE

Associate Scientist, National Laboratory Animal Center,
National Applied Research Laboratories
Apr 2009- Apr 2011

Associate Research Specialist, Manager of Transgenic Core
Facility, Institute of Molecular Biology, Academia Sinica.

Mar 2005 – Mar 2009

Postdoctoral Fellowship, Institute of Molecular Biology,
Academia Sinica, Taiwan. Aug 2001 – Mar 2005

Assistant Professor, Department of Parasitology,
Chung-Shan Medical University, Taiwan.
Aug 2000 – Jul 2001

Postdoctoral Fellowship, Department of Physiology,
National Cheng-Kung University, Taiwan.
Apr 2000 – Jul 2000

Chairman, Department of Research and Development,
Good Biotech Corporation, , Taiwan.
Aug 1999 – Mar 2000

Lecturer, Department of Medical Technology, Chung-Shan
Medical University, Taiwan.
Aug 1992 – Jul 1995

SPECIAL EXPERTISE

- Transgenic and gene targeting animal production
- Gene engineering based on Bacterial Artificial Chromosome
- Establishing mouse models for human diseases

GENERAL EXPERTISE

- Molecular Biology
- Biochemistry
- Laboratory Mouse
- Cell Biology
- Pathology
- Parasitology
- Clinical Chemistry
- Clinical Toxicology

COURSES TAUGHT

- Clinical Biochemistry
- Clinical Toxicology
- Molecular Cell Biology
- Parasitology
- Mouse model system

LICENSURE AND CERTIFICATION

- Medical Technologist, Taiwan, 1990

ACADEMIC HONORS AND AWARDS

- Young Investigator Award, The 4th Asian Federation of Laboratory Animal Science Associations (AFLAS) Congress Meeting, 2010.
- Postdoctoral Fellowship Award, National Health Research Institute, Taiwan, 2002 - 2003
- General Research Award, National Science Council, Taiwan, 2000 – 2001

PUBLICATIONS

1. Wang E, Chiou YY, Jeng WY, Lin HK, Lin HH, Chin HJ, Wang CKL, Yu SS, Tsai SC, Chiang CY, Chen PH, Lin HJ, Jiang ST, Chiu ST, Hsieh-Li HM. Overexpression of exogenous kidney-specific *Ngal* attenuates progressive cyst development and prolongs lifespan in a murine model of polycystic kidney disease. *Kidney Int.* 9:412-422, 2017.
2. Lai YT, Su CK, Jiang ST, Chang YJ, Lai ACY, Huang YS. Deficiency of CPEB2-Confined ChAT Expression in the Dorsal Motor Nucleus of Vagus Causes Hyperactivated Parasympathetic Signaling-Associated Bronchoconstriction. *The Journal of Neuroscience* 36:12661-12676, 2016.

3. Liu CC, Lin YC, Chen YH, Chen CM, Pang LY, Chen HA, Wu PR, Lin MY, Jiang ST, Tsai TF, Chen RH. Cul3-KLHL20 ubiquitin ligase governs the turnover of ULK1 and VPS34 complexes to control autophagy termination. ***Molecular Cell*** 62:84-97, 2016.
4. Tu YF, Jiang ST, Chow YH, Huang CC, Ho CJ, Chou YP. Insulin Receptor Substrate-1 activation mediated p53 downregulation protects against Hypoxic-Ischemia in the neonatal brain. ***Molecular Neurobiology*** 53:3658-3669, 2016.
5. Hsiao HW, Hsu TS, Liu WH, Hsieh WC, Chou TF, Wu YJ, Jiang ST, Lai MZ. Deltex1 antagonizes HIF-1 α and sustains the stability of regulatory T cells *in vivo*. ***Nature Communications*** 6:6353, 2015.
6. Liou YH, Wang SW, Chang CL, Huang PL, Hou MS, Lai YG, Lee GA, Jiang ST, Tsai CY, Liao NS. Adipocyte IL-15 Regulates Local and Systemic NK Cell Development. ***J Immunol*** 193:1747-1758, 2014.
7. Lo YH, Huang YW, Wu YH, Tsai CS, Lin YC, Mo ST, Kuo WC, Chuang YT, Jiang ST, Shih HM, and Lai MZ. Selective inhibition of the NLRP3 inflammasome by targeting to promyelocytic leukemia protein in mouse and human. ***Blood*** 121: 3185-3194, 2013.
8. Chien Y, Cheng WC, Wu MR, Jiang ST, Shen CKJ, and Chung BC. Misregulated Progesterone Secretion and Impaired Pregnancy in *Cyp11a1* Transgenic Mice. ***Biology of Reproduction***. 89: 1-10, 2013.
9. Lin SH, Yu IS, Jiang ST, Lin SW, Chu P, Chen A, Sytwu HK, Sohara E, Uchida S, Sasaki S, and Yang SS. Impaired phosphorylation of Na⁺-K⁺-2Cl⁻ cotransporter by oxidative stress-responsive kinase-1 deficiency manifests hypotension and Bartter-like syndrome. ***PNAS*** 108:17538-17543, 2011.
10. Lee GA, Wang SW, Liou YH, Ko KL, Jiang ST, and Liao NS. Different NK cell developmental events require different levels of IL-15 trans-presentation. ***J Immunol*** 187: 1212-1221, 2011.
11. Chen CY, Lin CW, Chang CY, Jiang ST, and Hsueh YP. Sarm1, a negative regulator of innate immunity, interacts with syndecan-2 and regulates neuronal morphology. ***Journal of Cell Biology*** 193:769-784, 2011.
12. Wang E, Hsieh-Li HM, Chiou YY, Chien YL, Ho HH, Chin HJ, Wang CKL, Liang SC, Jiang ST. Obviously morphological personification of autosomal dominant polycystic kidney disease by microRNA

- induced *Pkd1* knockdown mice. **Journal of Pathology** 222:238-248, 2010. (corresponding author)
13. Chien CL, Wu YS, Lai HL, Chen YH, Jiang ST, Shih CM, Lin SS, Chang C, Chern Y. Impaired water reabsorption in mice deficient in the type VI adenylyl cyclase (AC6). **FEBS Lett.** 584:2883-90, 2010.
 14. Lee PT, Lin HH, Jiang ST, Lu PJ, Chou KJ, Fang HC, Chiou YY, and Tang MJ. Mouse kidney progenitor cells accelerate renal regeneration and prolong survival after ischemic injury. **Stem Cells** 28:573-584, 2010.
 15. Wu LS, Cheng WC, Hou SC, Yan YT, Jiang ST, and Shen CKJ. TDP-43, a neuro-pathosignature factor, is essential for early mouse embryogenesis. **Genesis** 48: 56-62, 2010.
 16. Hsiao HW, Liu WH, Wang CJ, Lo YH, Wu YH, Jiang ST, Lai MZ. Deltex1 is a target of the transcription factor NFAT that promotes T cell anergy. **Immunity** 31:72-83, 2009.
 17. Jiang ST, Chiou YY, Wang E, Chien YL, He HH, Tsai FJ, Lin CY, Li H. Essential role of nephrocystin in photoreceptor intraflagellar transport of mouse. **Hum. Mol. Genet.** 18:1566-1577, 2009. (corresponding author)
 18. Jiang ST, Chiou YY, Wang E, Lin HK, Lee SP, Lu HY, Wang CKL, Tang MJ, Li H. Targeted disruption of *Nphp1* causes male infertility due to defects in the later steps of sperm morphogenesis in mice. **Hum. Mol. Genet.** 17:3368-3379, 2008.
 19. Shih PC, Lee HH, Lai SC, Chen KM, Jiang ST, Chen YF, Shioh SJ. Efficacy of curcumin therapy against *Angiostrongylus cantonensis*-induced eosinophilic meningitis. **J. Helminthol.** 81:1-5, 2007.
 20. Jiang ST, Chiou YY, Wang E, Lin SG, Lin YT, Chi YC, Wang CKL, Tang MJ, Li H. Defining a Link with Autosomal Dominant Polycystic Kidney Disease in Mice Congenitally Low Expression of *Pkd1*. **Am. J. of Pathol.** 168 (1):205-220, 2006.
 21. Lai SC, Jiang ST, Chen KM, and Lee HH. Matrix metalloproteinases activity demonstrated in the infective stage of the nematodes, *Angiostrongylus cantonensis*. **Parasitol Res** 97 (6): 466-471, 2005
 22. Lai SC, Jiang ST, Chen KM, Hsu JD, Shyu LY, Lee HH. Efficacy of albendazole - GM6001 co-therapy against *Angiostrongylus cantonensis*-induced meningitis in BALB/c mice. **Acta Tropica** 93 (3): 267-273, 2005

23. Lai SC, Twu JJ, Jiang ST, Hsu JD, Chen KM, Chiaing HC, Wang CJ, Tseng CK, Shyu LY, Lee HH. Induction of matrix metalloproteinase-9 in murine eosinophilic meningitis caused by *Angiostrongylus cantonensis*. ***Annals of Tropical Med And Parasitol*** 98: 715-724, 2004
24. Ciu SJ, Jiang ST, Wang YK and Tang MJ. HGF upregulates $\alpha 2\beta 1$ integrin in MDCK cells: implications in tubulogenesis. ***J. Biomedical Sci.*** 9:261-272, 2002
25. Jiang ST, Chiu SJ, Chen HC, Chuang WJ and Tang MJ. The role of $\alpha 3\beta 1$ integrin in tubulogenesis of MDCK cells. ***Kidney Int.*** 59:1770-1778, 2001
26. Jiang ST, Chuang WJ, and Tang MJ. The role of fibronectin deposition in branching morphogenesis of MDCK cells. ***Kidney Int.*** 57:1860-1867, 2000.
27. Lai JF, Kao SC, Jiang ST, Tang MJ, Chan PC and Chen HC. Involvement of focal adhesion kinase in hepatocyte growth factor-induced cell scattering . ***J. Biol. Chem.*** 275: 7474-7480, 2000.
28. Jiang ST, Liao KK, Liao MC and Tang MJ. The age effects of type I collagen on morphogenesis of MDCK cells. ***Kidney Int.*** 57: 1539-1548, 2000.
29. Jiang ST, Chiang HC, Cheng MH, Yang TP, Chuang WJ, and Tang MJ. The role of fibronectin deposition in cystogenesis of MDCK cells. ***Kidney Int.*** 56: 92-103, 1999.
30. Lin HH, Yang TP, Jiang ST, Yang HY and Tang MJ. Bcl-2 overexpression prevents apoptosis-induced MDCK simple epithelial cyst formation. ***Kidney Int.*** 55: 168-179, 1999.
31. Tang MJ, Hu CJ, Lin HH, Chiu WT and Jiang ST. Collagen gel overlay induces apoptosis of epithelial cells: disoriented cell death. ***Am J. Physiol.*** 275: C921-C931, 1998.
32. Lin HH, Yang TP, Jiang ST, Liu HS and Tang MJ. Inducible expression of Bcl-2 by the lac operator/ repressor system in MDCK cells. ***Am. J. Physiol.*** 273: F300-F306, 1997.
33. Lee HH, Jiang ST, Hsu LY, Lin WL, Chian HC, Hsu CC, Chou FP, Wang CJ. L Ferritin accumulation in macrophages infiltrating the lung during rat *Angiostrongylus cantonensis* infection. ***Exp Parasitol.*** 83:55-61, 1996.