

CURRICULUM VITAE.



• Personal Data

Shih-Ping Liu (劉詩平)

Associate Professor, Graduate Institute of Basic Medical Science, China Medical University, Taichung, Taiwan.

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• Specialty

Transgenic and Knockout Mice, Molecular Cell Biology, Tumor Biology, molecular toxicology

• Education Qualification

- Ph.D., Institute of Public Health, School of Medicine, National Yang-Ming University, Taipei, Taiwan. (2001.09 - 2007.07)
- B.Sc., Department of Public Health, Taipei Medical University, Taipei, Taiwan. (1996.09 – 2000.07)

• Professional Working Experience

- Postdoctoral research associate, Center for Neuropsychiatry, China Medical University and Hospital, Taichung, Taiwan, R.O.C. (2008.08 - present)
- Postdoctoral research associate, AIDS research center, National Yang-Ming University, Taipei, Taiwan, R.O.C. (2008.01 - 2008.07)

• Academic Honors and Awards

2007 Excellent Ph.D. thesis Award of National Yang-Ming University

2008 Excellent Ph.D. thesis Award of Wang Ming-Ning Memorial Foundation

• Research Grants

From China Medical University

- Use glycine N-methyltransferase knockout mice to study the mechanism of gender disparity in liver cancer. 20080801~20090731, NT 300,000.

• Publications

➤ Journal articles

1. **Shih-Ping Liu**, Ying-Shiuan Li, Yann-Jang Chen, En-Pei Chiang, Anna Fen-Yau Li, Ying-Hue Lee, Ting-Fen Tsai, Michael Hsiao, Shiu-Feng Hwang, and Yi-Ming Arthur Chen. Glycine N-methyltransferase-/- mice develop chronic hepatitis and glycogen storage disease in the liver. *Hepatology*. 46: 1413-1425, 2007. **SCI 2012 Impact factor: 12.003, Ranking: 2/74. Subject Categories: GASTROENTEROLOGY & HEPATOLOGY**
2. Yi-Jen Liao, **Shih-Ping Liu(Co-first author)**, Cheng-Ming Lee, Chia-Hung Yen, Pei-Chun Chuang, Chia-Yen Chen, Ting-Fen Tsai, Shiu-Feng Huang, Yan-Hwa Wu Lee, Yi-Ming Arthur Chen. Characterization of a glycine N-methyltransferase gene knockout mouse model for hepatocellular carcinoma. *International Journal of Cancer*. 124: 816-826, 2009. **SCI 2012 Impact factor: 6.198, Ranking: 23/196. Subject Categories: ONCOLOGY**

3. Chia-Hung Yen, Jung-Hsien Hung, Yune-Fang Ueng, **Shih-Ping Liu**, Shih-Yin Chen, Hsiao-Han Liu, Teh-Ying Chou, Ting-Fen Tsai, Ramalakshmi Darbha, Ling-Ling Hsieh, Yi-Ming Arthur Chen. Glycine N-Methyltransferase Affects the Metabolism of Aflatoxin B1 and Blocks its Carcinogenic Effect. Toxicology and Applied Pharmacology. 235: 296-304, 2009. **SCI 2012 Impact factor: 3.975, Ranking: 12/85. Subject Categories: TOXICOLOGY**
4. Shih-Yin Chen, Lei Wan, Yu-Chuen Huang, Jim Jinn-Chyuan Sheu, Yu-Ching Lan, Chih-Ho Lai, Cheng-Wen Lin, Jeng Sheng Chang, Yuhsin Tsai, **Shih-Ping Liu**, Ying-Ju Lin and Fuu-Jen Tsai. Interleukin-18 gene 105A/C genetic polymorphism contributes to the susceptibility of Kawasaki disease. Journal of Clinical Laboratory Analysis. 23: 71-76, 2009. **SCI 2012 Impact factor: 1.356, Ranking: 18/32. Subject Categories: MEDICAL LABORATORY TECHNOLOGY**
5. **Shih-Ping Liu**, Ru-Huei Fu, Hsiu-Hui Yu, Kuo-Wei Li, Chang-Hai Tsai, Woei-Cherng Shyu and Shinn-Zong Lin. MicroRNAs Regulation and Alternative mRNA Splicing Modulated Self-Renewal and Lineage Differentiation of Stem Cells. Cell transplantation. 18(9):1039-45, 2009. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
6. Ru-Huei Fu, Shih-Ping Liu, Chen-Wei Ou, Hsiu-Hui Yu, Kuo-Wei Li, Chang-Hai Tsai, Woei-Cherng Shyu and Shinn-Zong Lin. Alternative Splicing Modulates Stem Cell differentiation. Cell transplantation. 18(9):1029-38, 2009. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
7. Der-Yang Cho, Shinn-Zong Lin, Wen-Kuang Yang, Den-Mei Hsu, Han-Chung Lee, Wen-Yeun Lee, and **Shih-Ping Liu**. Recent Advances of Dendritic Cells (DCs)-Based Immunotherapy for Malignant Gliomas. Cell transplantation. 18(9): 977-83, 2009. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
8. Yi-Jen Liao, Kuan-Hsuan Chen, Shiu-Feng Huang, Tzu-Lang Chen, Chung-Kwe Wang, Chau-Heng Chien, Ting-Fen Tsai, **Shih-Ping Liu**, Yi-Ming Arthur Chen. Deficiency of glycine N-methyltransferase results in deterioration of cellular defense to stress in mouse liver. Proteomics Clinical Applications. 4: 1-13, 2010. **SCI 2012 Impact factor; 2.925, Ranking: 29/75. Subject Categories: BIOCHEMICAL RESEARCH METHODS**
9. Ru-Huei Fu, **Shih-Ping Liu**, Chen-Wei Ou, Chin-Mao Huang, Yu-Chi Wang. Spatial control of cells, peptide delivery and dynamic monitoring of cellular physiology with chitosan-assisted dual color quantum dot FRET peptides. Acta Biomaterialia. 6(9):3621-3629, 2010. **SCI 2012 Impact factor; 5.093, Ranking: 2/27. Subject Categories: MATERIALS SCIENCE, BIOMATERIALS**
10. Yu-chuen Huang, Ying-Ju Lin, Jeng-Sheng Chang, Shih-Yin Chen, Lei Wan, Jim Jinn-Chyuan Sheu, Chih-Ho Lai, Cheng-Wen Lin, **Shih-Ping Liu**, Chih-Ping Chen, Fuu-Jen Tsai. Single nucleotide polymorphism rs2229634 in the ITPR3 gene is associated with the risk of developing coronary artery aneurysm in children with Kawasaki disease. International Journal of Immunogenetics. 37(6):439-443, 2010. **SCI 2012 Impact factor; 1.355, Ranking: 119/135. Subject Categories: IMMUNOLOGY**

11. **Shih-Ping Liu**, Shin-Da Lee, Hsu-Tung Lee, Demeral David Liu, Hsiao-Jung Wang, Ren-Shyan Liu, Shinn-Zong Lin, and Woei-Cherng Shyu. Granulocyte Colony-Stimulating Factor Activating HIF-1 α Acts Synergistically with Erythropoietin to Promote Tissue Plasticity. PLoS ONE. 5(4):e10093, 2010. **SCI 2012 Impact factor; 3.730, Ranking: 7/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
12. **Shih-Ping Liu**, Dah-Ching Ding, Hsu-Tung Lee, Der-Cherng Chen, Hsiao-Jung Wang, Shinn-Zong Lin, Woei-Cherng Shyu. Non-senescent Hsp27-Upregulated MSCs Implantation Promote Neuroplasticity in Stroke Model. Cell transplantation. 19(10):1261-79, 2010. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
13. Yu-Chuen Huang, Ying-Ju Lin, Jeng Sheng Chang, Shih-Yin Chen, Lei Wan, Jim Jinn-Chyuan Sheu, Chih-Ho Lai, Cheng-Wen Lin, **Shih-Ping Liu**, Fuu-Jen Tsai. Haplotype of BAK1 (BCL2 antagonist killer 1) polymorphisms associated with the risk of developing Kawasaki disease in Taiwanese children. Scienceasia. 36,125-129, 2010. **SCI 2011 Impact factor: 0.398, Ranking: 35/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
14. Ru-Huei Fu, Horng-Jyh Harn, Ching-Liang Chu, Chin-Mao Huang, **Shih-Ping Liu**, Yu-Chi Wang, Ya-Hsien Lin, Woei-Cherng Shyu, Shinn-Zong Lin. Lipopolysaccharide-stimulated activation of murine DC2.4 cells is attenuated by n-butylidenephthalide through suppression of the NF- κ B pathway. BIOTECHNOLOGY LETTERS. 2011 Jan. 33(5):903-910 **SCI 2011 Impact:1.853, Ranking:93/159. Subject Categories: BIOTECHNOLOGY & APPLIED MICROBIOLOGY**
15. **Shih-Ping Liu**, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Ying-Jiun Chien, Chien Yu Hsu, Chang-Hai Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. Induced Pluripotent Stem (iPS) Cell Research Overview. Cell transplantation. 20(1):15-9, 2011. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
16. Shih-Yin Chen, Yu-Chuen Huang, **Shih-Ping Liu**, Fuu-Jen Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. An Overview of Concepts for Cancer Stem Cells. Cell transplantation. 20(1):113-20, 2011. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
17. Ru-Huei Fu, Yu-Chi Wang, **Shih-Ping Liu**, Chen-Wei Ou, Chin-Mao Huang, Chang-Hai Tsai, Woei-Cherng Shyu, and Shinn-Zong Lin. Differentiation of stem cells: strategies for modifying surface biomaterials. Cell transplantation. 20(1):37-47, 2011. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
18. **Shih-Ping Liu**, Ying-Shiuan Li, Cheng-Ming Lee, Chia-Hung Yen, Yi-Jen Liao, Shiu-Feng Huang, Chau-Heng Chien, Yi-Ming Arthur Chen. Higher susceptibility to aflatoxin B1-related hepatocellular carcinoma in glycine N-methyltransferase knockout mice. International Journal of Cancer. 128(3):511-23, 2011. **SCI 2012 Impact factor: 6.198, Ranking: 23/196. Subject Categories: ONCOLOGY**
19. Yi-Cheng Wang, Yi-Ming Chen, Yan-Jun Lin, **Shih-Ping Liu**, En-Pei Isabel Chiang. GNMT expression increases hepatic folate contents and folate-dependent methionine synthase-mediated

homocysteine remethylation. *Molecular Medicine*. 17(5-6):486-94, 2011. **SCI 2012 Impact factor: 4.469, Ranking: 57/184. Subject Categories: CELL BIOLOGY**

20. Shih-Yin Chen, Lei Wan, Chung-Ming Huang, Yu-Chuen Huang, Jinn-Chyuan Sheu, Ying-Ju Lin, **Shih-Ping Liu**, Yu-Ching Lan, Chih-Ho Lai, Lin Cheng Wen, Chang-Hai Tsai, Fuu-Jen Tsai. Association of the C-285T and A5954G Polymorphisms in the DNA repair gene OGG1 with the Susceptibility of Rheumatoid Arthritis. *Rheumatology International*. 2012 May;32(5):1165-9. **SCI 2011 Impact factor:2.214,Ranking:16/29. Subject Categories: RHEUMATOLOGY**
21. **Shih-Ping Liu**, Horng-Jyh Harn, Ying-Jiun Chien, Cheng-Hsuan Chang, Chien-Yu Hsu, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Woei-Cherng Shyu, Shinn-Zong Lin. n-Butylidenephthalide (BP) maintains stem cell pluripotency by activating Jak2/Stat3 pathway and increases the efficiency of iPS cells generation. *PLoS One*. 2012;7(9):e44024. **SCI 2012 Impact factor; 3.730, Ranking: 7/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
22. Ru-Huei Fu, **Shih-Ping Liu**, Ching-Liang Chu, Ya-Hsien Lin, Yu-Chen Ho, Shao-Chih Chiu, Wei-Yong Lin, Woei-Cherng Shyu, Shinn-Zong Lin. Myricetin attenuates lipopolysaccharide-stimulated activation of mouse bone marrow-derived dendritic cells through suppression of IKK/NF- κ B and MAPK signaling pathways. *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE* , 2013 Jan , 93(1):76-84. **SCI 2012 Impact factor; 1.759,**
23. Ru-Huei Fu, Yu-Chi Wang, **Shih-Ping Liu**, Ching-Liang Chu, Rong-Tzong Tsai, Yu-Chen Ho, Wen-Lin Chang, Shao-Chih Chiu), Horng-Jyh Harn, Woei-Cherng Shyu, Shinn-Zong Lin. Acetylcorynoline Impairs the Maturation of Mouse Bone Marrow-Derived Dendritic Cells via Suppression of I κ B Kinase and Mitogen-Activated Protein Kinase Activities , *PLoS One* , 2013 Mar , 8(3):e58398. **SCI 2012 Impact factor; 3.730, Ranking: 7/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
24. Yu-Chuen Huang, Hsin-Yi Lin, Hui-Ju Lin, Shih-Yin, Chen, **Shih-Ping Liu**, WEN-LING LIAO, Lin Jane-Ming, Yung-Hsiang Chen, Fuu-Jen Tsai. JPH2 is a novel susceptibility gene on chromosome 20q associated with diabetic retinopathy in a Taiwanese population , *Scienceasia*. 2013 Apr , 39(2):167-173. **SCI 2011 Impact factor: 0.398, Ranking: 35/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
25. **Shih-Ping Liu**, Ru-Huei Fu, Shyh-Jer Huang, Yu-Chuen Huang, Shih-Yin Chen, Cheng-Hsuan Chang, Cha-Hui Liou, Chang-Hai Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. Stem Cell Applications in Regenerative Medicine for Neurological Disorders. *Cell transplantation*. 2013;22(4):631-7. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
26. Ru-Huei Fu, **Shih-Ping Liu**, Huang Shyh-Jer, Hung-Jen Chen, Pin-Ru Chen, Ya-Hsien Lin, Yu-Chen Ho, Wen-Lin Chang, Chang-Hai Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. Aberrant Alternative Splicing Events in Parkinson's Disease. *Cell transplantation*.2013 Apr;22(4):653-661. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**

27. Huang Shyh-Jer, Ru-Huei Fu, Woei-Cherng Shyu, Shih-Ping Liu, Gwo-Ping Jong, Yung-Wei Chiu, Hsiao-Su Wu, Yung-An Tsou, Chao-Wen Cheng, Shinn-Zong Lin. Adipose-Derived Stem Cells: Isolation, Characterization and Differentiation Potential. Cell transplantation. 2013 Apr; 22(4):701-710 **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
28. **Shih-Ping Liu**, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin, Chen, Woei-Cherng Shyu, Shinn-Zong Lin. Stem Cell Applications for Parkinson's Disease. Adaptive Medicine › 2013 Dec ;5(4):162-170.
29. Ru-Huei Fu, Horng-Jyh Harn, **Shih-Ping Liu**, Chang-Shi Chen, Wen-Lin Chang, Yue-Mi Chen, Jing-En Huang, Rong-Jhu Li, Sung-Yu Tsai, Huey-Shan Hung, Woei-Cherng Shyu, Shinn-Zong Lin, Yu-Chi Wang. n-Butylidenephthalide Protects Against Dopaminergic Neuron Degeneration and alpha-Synuclein Accumulation in Caenorhabditis elegans Models of Parkinson's Disease. PLoS One. 2014 Jan;9(1):e85305. **SCI 2012 Impact factor; 3.730, Ranking: 7/56. Subject Categories: MULTIDISCIPLINARY SCIENCES**
30. **Shih-Ping Liu**, Ru-Huei Fu, Dong-Chuan Wu, Chien-Yu Hsu, Cheng-Hsuan Chang, Wei Lee, Yu-Da Lee, Chia Hui Liu, Ying-Jiun Chien, Shinn-Zong Lin, Woei-Cherng Shyu. Mouse induced pluripotent stem cells generated under hypoxic conditions in the absence of viral infection and oncogenic factors and used for ischemic stroke therapy › STEM CELLS AND DEVELOPMENT, 2014;23(4):421-33. **SCI 2012 Impact factor; 4.67, Ranking: 3/26. Subject Categories: TRANSPLANTATION.**
31. Chia Hui Liu, Woei-Cherng Shyu, Ru-Huei Fu, Huang Shyh-Jer, Cheng-Hsuan Chang, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, **Shih-Ping Liu**. Salvianolic Acid B Maintained Stem Cell Pluripotency and Increased Proliferation Rate by Activating Jak2-Stat3 Combined With EGFR-Erk1/2 Pathways. Cell Transplant. 2014;23(4):657-68. **SCI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
32. Ru-Huei Fu, Yu-Chi Wang, **Shih-Ping Liu**, Ton-Ru Shih, Hsin-Lien Lin, Yue-Mi Chen, Jiun-Huei Sung, Chia-Hui Lu, Jing-Rong Wei, Zih-Wan Wang, Shyh-Jer Huang, Chang-Hai Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. Decellularization and recellularization technologies in tissue engineering › CELL TRANSPLANTATION. 2014 ;23(4):621-630. **CI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
33. Ru-Huei Fu, Yu-Chi Wang, **Shih-Ping Liu**, Ton-Ru Shih, Hsin-Lien Lin, Yue-Mi Chen, Rong-Tzong Tsai, Chang-Hai Tsai, Woei-Cherng Shyu, Shinn-Zong Lin. Dryocrassin suppresses immunostimulatory function of dendritic cells and prolongs skin allograft survival. CELL TRANSPLANTATION. 2014;23(4): 641-656. **CI 2012 Impact factor; 4.422, Ranking: 4/26. Subject Categories: TRANSPLANTATION**
34. Ru-Huei Fu, Yu-Chi Wang, Chang-Shi Chen, Rong-Tzong Tsai, **Shih-Ping Liu**, Wen-Lin Chang, Hsin-Lien Lin, Chia-Hui Lu, Jing-Rong Wei, Zih-Wan Wang, Woei-Cherng Shyu, Shinn-Zong Lin. Acetylcholine attenuates dopaminergic neuron degeneration and alpha-synuclein aggregation in animal models of Parkinson's disease › NEUROPHARMACOLOGY. 2014 Jul;82:108-20.

35. **Shih-Ping Liu**, Chien-Yu Hsu, Ru-Huei Fu, Yu-Chuen Huang , Shih-Yin Chen, Shinn-Zong Lin, Woei-Cherng Shyu. Sambucus williamsii induced embryonic stem cells differentiated into neurons. Biomedicine (Taipei). 2015;5(1):3.
36. Chih-Yang Huang, Shao-Yu Chen, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Woei-Cherng Shyu, Shinn-Zong Lin, **Shih-Ping Liu**. Differentiation of Embryonic Stem Cells Into Cardiomyocytes Used to Investigate the Cardioprotective Effect of Salvianolic Acid B Through BNIP3 Involved Pathway. CELL TRANSPLANTATION. 2015;24(3):561-71.
37. **Shih-Ping Liu**, Chen-Huan Lin, Shao-Ji Lin, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, Chung Y. Hsu, Woei-Cherng Shyu. Electrospun PAN-based nanofibers maintain embryonic stem cell stemness via TGF-beta signaling. Journal of Biomedical Nanotechnology 2016 Apr;12(4):732-42. **SCI 2014 Impact factor; 5.338, Ranking: 4/33. Subject Categories: MATERIALS SCIENCE, BIOMATERIALS**
38. Kang Chi, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, Pi-Chun Huang, Po-cheng Lin, Fu-Kuei Chang, Shih-Ping Liu. Therapeutic Effect of Ligustilide-Stimulated Adipose-Derived Stem Cells in a Mouse Thromboembolic Stroke Model. Cell Transplant. 2016;25(5):899-912. SCI 2014 Impact **factor; 3.127, Ranking: 10/25. Subject Categories: TRANSPLANTATION .**

• Patent

- ▶ United States Patent: GLYCINE N-METHYLTRANSFERASE (GNMT) ANIMAL MODEL AND USE THEREOF.