

Curriculum Vitae

Shih Sheng Jiang, Ph.D.

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Current position and professional experiences

- 2022/7 ~ Associate Investigator, National Institute of Cancer Research, NHRI.
- 2017/7 ~2022/6 Assistant Investigator, National Institute of Cancer Research, NHRI.
- 2011/3 ~2017/6 Project Assistant Investigator, National Institute of Cancer Research, NHRI.
- 2015/8 ~ Adjunct Assistant Professor, Biotechnology Center/Ph.D. Program in Tissue Engineering and Regenerative Medicine, National Chung Hsing University, Taichung, Taiwan
- 2012/8 ~ Adjunct Assistant Professor, Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan
- 2006/1 ~2012/6 Research Associate, National Institute of Cancer Research, NHRI.
- 2003/9 ~2005/12 Research Associate, President's Laboratory, NHRI.
- 2000/5 ~2003/8 Postdoctoral Fellow, Division of Molecular and Genomic Medicine, NHRI.

Research interest

1. Cancer genomics
2. Bioinformatics
3. Cancer biology
4. Molecular biology
5. Cancer immunology

Short research summary

Dr. Shih Sheng Jiang is a Principal Investigator of National Institute of Cancer Research at the National Health Research Institutes (NHRI), Taiwan. Dr. Jiang received his Ph.D. degree from the National Tsing Hua University, Taiwan and has been involved in genomic researches for more than 15 years. Dr. Jiang's research focuses on the utilization of genomics and bioinformatics approaches to identify biomarkers of cancers for early detection, diagnosis, and prognosis, as well as to unveil the underlying mechanisms of those cancer biomarkers to pave the way for better cancer treatments.

Publications (Selected publications in the past 5 years, * Corresponding author)

1. Yen, B. L., Hwa, H. L., Hsu, P. J., Chen, P. M., Wang, L. T., **Jiang, S. S.**, Liu, K. J., Sytwu, H. K., and Yen, M. L. (2020) HLA-G Expression in Human Mesenchymal Stem Cells (MSCs) Is Related to Unique Methylation Pattern in the Proximal Promoter as well as Gene Body DNA. *Int J Mol Sci* **21**
2. Shih, C. Y., Cheng, Y. C., Hsieh, C., Tseng, T., **Jiang, S. S.**, and Lee, S. C. (2020) Drug-selected population in melanoma A2058 cells as melanoma stem-like cells retained angiogenic features - the potential roles of heparan-sulfate binding ANGPTL4 protein. *Aging (Albany NY)* **12**, 22700-22718
3. Li, Y. L., Chen, C. H., Chen, J. Y., Lai, Y. S., Wang, S. C., **Jiang, S. S.***, and Hung, W. C*. (2020) Single-cell analysis reveals immune modulation and metabolic switch in tumor-draining lymph nodes. *Oncoimmunology* **9**, 1830513 (Co-corresponding author)
4. Kuo, C. L., Chou, H. Y., Chiu, Y. C., Cheng, A. N., Fan, C. C., Chang, Y. N., Chen, C. H., **Jiang, S. S.**, Chen, N. J., and Lee, A. Y. (2020) Mitochondrial oxidative stress by Lon-PYCR1 maintains

an immunosuppressive tumor microenvironment that promotes cancer progression and metastasis. *Cancer Lett* **474**, 138-150

5. Huang, L. Y. #, Hsieh, Y. P. #, Wang, Y. Y. #, Hwang, D. Y. #, **Jiang, S. S. #**, Huang, W. T. #, Chiang, W. F. #, Liu, K. J., and Huang, T. T. (2020) Single-Cell Analysis of Different Stages of Oral Cancer Carcinogenesis in a Mouse Model. *Int J Mol Sci* **21** (Equal contribution)
6. Chen, M. H., Chou, W. C., Hsiao, C. F., **Jiang, S. S.**, Tsai, H. J., Liu, Y. C., Hsu, C., Shan, Y. S., Hung, Y. P., Hsich, C. H., Chiu, C. H., Liu, T. C., Cho, S. F., Liu, T. W., and Chao, Y. (2020) An Open-Label, Single-Arm, Two-Stage, Multicenter, Phase II Study to Evaluate the Efficacy of TLC388 and Genomic Analysis for Poorly Differentiated Neuroendocrine Carcinomas. *Oncologist* **25**, e782-e788
7. Wu, Y. J., Ko, B. S., Liang, S. M., Lu, Y. J., Jan, Y. J., **Jiang, S. S.**, Shyue, S. K., Chen, L., and Liou, J. Y. (2019) ZNF479 downregulates metallothionein-1 expression by regulating ASH2L and DNMT1 in hepatocellular carcinoma. *Cell Death Dis* **10**, 408
8. Lin, C. Y., Wang, B. J., Chen, B. C., Tseng, J. C., **Jiang, S. S.**, Tsai, K. K., Shen, Y. Y., Yuh, C. H., Sie, Z. L., Wang, W. C., Kung, H. J., and Chuu, C. P. (2019) Histone Demethylase KDM4C Stimulates the Proliferation of Prostate Cancer Cells via Activation of AKT and c-Myc. *Cancers (Basel)* **11**
9. Cho, C. Y., Chung, S. Y., Lin, S., Huang, J. S., Chen, Y. L., **Jiang, S. S.**, Cheng, L. C., Kuo, T. H., Lay, J. D., Yang, Y. Y., Lai, G. M., and Chuang, S. E. (2019) PTBP1-mediated regulation of AXL mRNA stability plays a role in lung tumorigenesis. *Sci Rep* **9**, 16922
10. Chan, S. H., Tsai, K. W., Chiu, S. Y., Kuo, W. H., Chen, H. Y., **Jiang, S. S.**, Chang, K. J., Hung, W. C., and Wang, L. H. (2019) Identification of the Novel Role of CD24 as an Oncogenesis Regulator and Therapeutic Target for Triple-Negative Breast Cancer. *Mol Cancer Ther* **18**, 147-161
11. Wang, L. T., **Jiang, S. S.**, Ting, C. H., Hsu, P. J., Chang, C. C., Sytwu, H. K., Liu, K. J., and Yen, B. L. (2018) Differentiation of Mesenchymal Stem Cells from Human Induced Pluripotent Stem Cells Results in Downregulation of c-Myc and DNA Replication Pathways with Immunomodulation Toward CD4 and CD8 Cells. *Stem Cells* **36**, 903-914
12. Sung, Y. J., Kao, T. Y., Kuo, C. L., Fan, C. C., Cheng, A. N., Fang, W. C., Chou, H. Y., Lo, Y. K., Chen, C. H., **Jiang, S. S.**, Chang, I. S., Hsu, C. H., Lee, J. C., and Lee, A. Y. (2018) Mitochondrial Lon sequesters and stabilizes p53 in the matrix to restrain apoptosis under oxidative stress via its chaperone activity. *Cell Death Dis* **9**, 697