

Stanford



Sizun Jiang

Postdoctoral Research Fellow, Microbiology and Immunology

Bio

HONORS AND AWARDS

- Career Development Fellow, Leukemia and Lymphoma Society (2018-2021)
- Stanford Dean's Fellowship, Stanford University (2018)
- Fields Prize in Microbiology and Immunobiology Thesis Award, Harvard Medical School (2017)
- HHMI International Predoctoral Fellowship, Howard Hughes Medical Institute (2015-2017)
- Library Research Award for Best Thesis, University of Wisconsin-Madison (2011)
- Trewartha Senior Thesis Grant, University of Wisconsin-Madison (2010)
- National Science Scholarship, Agency of Science, Technology and Research (ASTAR) (2009-2011)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Harvard University (2017)

Research & Scholarship

LAB AFFILIATIONS

- Garry Nolan (6/12/2017)

Publications

PUBLICATIONS

- **The Epstein-Barr Virus Regulome in Lymphoblastoid Cells.** *Cell host & microbe*
Jiang, S., Zhou, H., Liang, J., Gerdt, C., Wang, C., Ke, L., Schmidt, S. C., Narita, Y., Ma, Y., Wang, S., Colson, T., Gewurz, B., Li, et al
2017; 22 (4): 561–73.e4
- **Epstein-Barr Virus Oncoprotein Super-enhancers Control B Cell Growth** *CELL HOST & MICROBE*
Zhou, H., Schmidt, S. C., Jiang, S., Willox, B., Bernhardt, K., Liang, J., Johannsen, E. C., Kharchenko, P., Gewurz, B. E., Kieff, E., Zhao, B.
2015; 17 (2): 205-216
- **Epstein-Barr Virus Nuclear Antigen 3C binds to BATF/IRF4 or SPI1/IRF4 composite sites and recruits Sin3A to repress CDKN2A** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jiang, S., Willox, B., Zhou, H., Holthaus, A. M., Wang, A., Shi, T. T., Maruo, S., Kharchenko, P. V., Johannsen, E. C., Kieff, E., Zhao, B.
2014; 111 (1): 421-426
- **SYCP2 Translocation-Mediated Dysregulation and Frameshift Variants Cause Human Male Infertility.** *American journal of human genetics*
Schilit, S. L., Menon, S., Friedrich, C., Kammin, T., Wilch, E., Hanscom, C., Jiang, S., Kliesch, S., Talkowski, M. E., Tuttleman, F., MacQueen, A. J., Morton, C. C.

2019

- **Mass spectroscopy-based highly multiplexed super-resolution imaging method for fine details of tumor microenvironment monitoring and tumor-immune cell interactions**
Bai, Y., Zhu, B., Angelo, M., Zhao, Y., Jiang, S., Clave, X., Nolan, G.
BMC.2019
- **Microbiome spatial patterns as markers of cancer immune therapy response**
Zhu, B., Bai, Y., Jiang, S., Rovira-Clave, X., Sonnenburg, J., Nolan, G.
BMC.2019
- **Multiplexed Imaging for the simultaneous detection of nucleic acids and proteins to dissect the tissue immune landscape and microenvironment of viral diseases**
Jiang, S., Clave, X., Chan, C., Zhu, B., Bai, Y., Bosse, M., McIlwain, D., Bendall, S., Angelo, M., Estes, J., Nolan, G.
BMC.2019
- **Mapping the spatial architecture of acute myeloid leukemia in the bone marrow microenvironment by multiplexed ion beam imaging**
Rovira-Clave, X., Jiang, S., Bai, Y., Zhu, B., Bosse, M., Angelo, M., Banz, Y., Schurch, C., Nolan, G.
BMC.2019
- **Epstein-Barr virus subverts mevalonate and fatty acid pathways to promote infected B-cell proliferation and survival.** *PLoS pathogens*
Wang, L. W., Wang, Z., Ersing, I., Nobre, L., Guo, R., Jiang, S., Trudeau, S., Zhao, B., Weekes, M. P., Gewurz, B. E.
2019; 15 (9): e1008030
- **Genome-wide CRISPR-based gene knockout screens reveal cellular factors and pathways essential for nasopharyngeal carcinoma** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Wang, C., Jiang, S., Ke, L., Zhang, L., Li, D., Liang, J., Narita, Y., Hou, I., Chen, C., Wang, L., Zhong, Q., Ling, Y., Lv, et al
2019; 294 (25): 9734–45
- **Genome-wide CRISPR-based gene knockout screens reveal cellular factors and pathways essential for nasopharyngeal carcinoma.** *The Journal of biological chemistry*
Wang, C., Jiang, S., Ke, L., Zhang, L., Li, D., Liang, J., Narita, Y., Hou, I., Chen, C., Wang, L. W., Zhong, Q., Ling, Y., Lv, et al
2019
- **RNA-seq analyses of gene expression during Epstein-Barr virus infection of primary B lymphocytes.** *Journal of virology*
Wang, C., Li, D., Zhang, L., Jiang, S., Liang, J., Narita, Y., Hou, I., Zhong, Q., Zheng, Z., Xiao, H., Gewurz, B. E., Teng, M., Zhao, et al
2019
- **TAF family proteins and MEF2C are essential for Epstein-Barr virus MYC super-enhancer activity.** *Journal of virology*
Wang, C., Jiang, S., Zhang, L., Li, D., Liang, J., Narita, Y., Hou, I., Zhong, Q., Gewurz, B. E., Teng, M., Zhao, B.
2019
- **CRISPR/Cas9 Screens Reveal Multiple Layers of B cell CD40 Regulation.** *Cell reports*
Jiang, C., Trudeau, S. J., Cheong, T. C., Guo, R., Teng, M., Wang, L. W., Wang, Z., Pighi, C., Gautier-Courteille, C., Ma, Y., Jiang, S., Wang, C., Zhao, et al
2019; 28 (5): 1307–22.e8
- **Modulating Gene Expression in Epstein-Barr Virus (EBV)-Positive B Cell Lines with CRISPRa and CRISPRi.** *Current protocols in molecular biology*
Wang, L. W., Trudeau, S. J., Wang, C., Gerdt, C., Jiang, S., Zhao, B., Gewurz, B. E.
2018; 121: 31.13.1–31.13.18
- **CRISPR/Cas9-Mediated Genome Editing in Epstein-Barr Virus-Transformed Lymphoblastoid B-Cell Lines.** *Current protocols in molecular biology*
Jiang, S., Wang, L. W., Walsh, M. J., Trudeau, S. J., Gerdt, C., Zhao, B., Gewurz, B. E.
2018; 121: 31.12.1–31.12.23
- **CRISPR/Cas9 Screens Reveal Epstein-Barr Virus-Transformed B Cell Host Dependency Factors** *CELL HOST & MICROBE*
Ma, Y., Walsh, M. J., Bernhardt, K., Ashbaugh, C. W., Trudeau, S. J., Ashbaugh, I. Y., Jiang, S., Jiang, C., Zhao, B., Root, D. E., Doench, J. G., Gewurz, B. E.
2017; 21 (5): 580-?
- **Epstein-Barr Virus LMP1 Mediated Oncogenicity.** *Journal of virology*
Wang, L. W., Jiang, S., Gewurz, B. E.
2017

- **Epstein-Barr virus nuclear antigen 3A partially coincides with EBNA3C genome-wide and is tethered to DNA through BATF complexes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Schmidt, S. C., Jiang, S., Zhou, H., Willox, B., Holthaus, A. M., Kharchenko, P. V., Johannsen, E. C., Kieff, E., Zhao, B.
2015; 112 (2): 554-559
- **The NF-kappa B Genomic Landscape in Lymphoblastoid B Cells** *CELL REPORTS*
Zhao, B., Barrera, L. A., Ersing, I., Willox, B., Schmidt, S. C., Greenfeld, H., Zhou, H., Mollo, S. B., Shi, T. T., Takasaki, K., Jiang, S., Cahir-McFarland, E., Kellis, et al
2014; 8 (5): 1595-1606
- **Epstein-Barr virus nuclear antigen leader protein localizes to promoters and enhancers with cell transcription factors and EBNA2** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Portal, D., Zhou, H., Zhao, B., Kharchenko, P. V., Lowry, E., Wong, L., Quackenbush, J., Holloway, D., Jiang, S., Lu, Y., Kieff, E.
2013; 110 (46): 18537-18542
- **A Divalent Ion Is Crucial in the Structure and Dominant-Negative Function of ID Proteins, a Class of Helix-Loop-Helix Transcription Regulators** *PLOS ONE*
Wong, M. V., Jiang, S., Palasingam, P., Kolatkar, P. R.
2012; 7 (10)
- **Structural analysis and dimerization profile of the SCAN domain of the pluripotency factor Zfp206** *NUCLEIC ACIDS RESEARCH*
Liang, Y., Hong, F. H., Ganesan, P., Jiang, S., Jauch, R., Stanton, L. W., Kolatkar, P. R.
2012; 40 (17): 8721-8732