

## Bokai Zhu

Ph.D. Student in Microbiology and Immunology, admitted Autumn 2017

### Publications

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#### PUBLICATIONS

- **Combined protein and nucleic acid imaging reveals virus-dependent B cell and macrophage immunosuppression of tissue microenvironments.** *Immunity*  
Jiang, S., Chan, C. N., Rovira-Clave, X., Chen, H., Bai, Y., Zhu, B., McCaffrey, E., Greenwald, N. F., Liu, C., Barlow, G. L., Weirather, J. L., Oliveria, J. P., Nakayama, et al  
2022
- **Determinants of SARS-CoV-2 entry and replication in airway mucosal tissue and susceptibility in smokers.** *Cell reports. Medicine*  
Nakayama, T., Lee, I. T., Jiang, S., Matter, M. S., Yan, C. H., Overdeest, J. B., Wu, C., Goltsev, Y., Shih, L., Liao, C., Zhu, B., Bai, Y., Lidsky, et al  
2021: 100421
- **Subcellular localization of biomolecules and drug distribution by high-definition ion beam imaging.** *Nature communications*  
Rovira-Clave, X., Jiang, S., Bai, Y., Zhu, B., Barlow, G., Bhate, S., Coskun, A. F., Han, G., Ho, C. K., Hitzman, C., Chen, S., Bava, F., Nolan, et al  
2021; 12 (1): 4628
- **SARS-CoV-2 infects human pancreatic beta cells and elicits beta cell impairment.** *Cell metabolism*  
Wu, C., Lidsky, P. V., Xiao, Y., Lee, I. T., Cheng, R., Nakayama, T., Jiang, S., Demeter, J., Bevacqua, R. J., Chang, C. A., Whitener, R. L., Stalder, A. K., Zhu, et al  
2021
- **SARS-CoV-2 entry factors are expressed in nasal, ocular, and oral tissues: implications for COVID-19 prophylaxes/therapeutics**  
Lee, I., Nakayama, T., Jiang, S., Goltsev, Y., Schurch, C., Zhu, B., McIlwain, D., Chu, P., Chen, H., Tzankov, A., Matter, M., Nayak, J., Nolan, et al  
MOSBY-ELSEVIER.2021: AB2
- **Adjacent Cell Marker Lateral Spillover Compensation and Reinforcement for Multiplexed Images.** *Frontiers in immunology*  
Bai, Y., Zhu, B., Rovira-Clave, X., Chen, H., Markovic, M., Chan, C. N., Su, T., McIlwain, D. R., Estes, J. D., Keren, L., Nolan, G. P., Jiang, S.  
2021; 12: 652631
- **Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma.** *Cell*  
Ji, A. L., Rubin, A. J., Thrane, K. n., Jiang, S. n., Reynolds, D. L., Meyers, R. M., Guo, M. G., George, B. M., Mollbrink, A. n., Bergensträhle, J. n., Larsson, L. n., Bai, Y. n., Zhu, et al  
2020
- **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
- **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
- **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
- **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

- **Exposure to nanoplastics disturbs the gut microbiome in the soil oligochaete *Enchytraeus crypticus*** *ENVIRONMENTAL POLLUTION*  
Zhu, B., Fang, Y., Zhu, D., Christie, P., Ke, X., Zhu, Y.  
2018; 239: 408–15