



## Wanlu Liu

- Affiliate, Institute for Immunity, Transplantation, and Infection Operations
- Visiting Scholar, Institute for Immunity, Transplantation, and Infection Operations

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#### BIO

##### Academic Appointments

- Associate Professor, Zhejiang University
- Visiting Scholar, Stanford University School of Medicine (Mark M. Davis Lab)

##### Professional Education

- Ph. D., UCLA, Molecular Biology/Bioinformatics (2018)
- B.Med., Zhejiang University School of Medicine (2013)

##### Selected Publications:

- Ruonan Tian#, Zhejian Yu#, Ziwei Xue, Lize Wu, Jiabin Wu, Shuo Cai, Bing Gao, Bing He, Yu Zhao, Jianhua Yao, Linrong Lu, Wanlu Liu\*; Evaluation of T cell receptor construction methods from scRNA-seq data, *Genomics Proteomics & Bioinformatics*, 2025, 22(6), qzae086
- Ziwei Xue#, Lize Wu#, Ruonan Tian, Bing Gao, Yu Zhao, Bing He, Di Sun, Bingkang Zhao, Yicheng Li, Kaixiang Zhu, Lie Wang, Jianhua Yao\*, Wanlu Liu\*, Linrong Lu\*; Integrative Mapping of Human CD8+ T Cell in Inflammation and Cancer, *Nature Methods*, 2025, 22(2), 435-445
- Jian Zhang#, Ruonan Tian#, Jie Yuan#, Zhang Siwen, Zhexu Chi, Weiwei Yu, Qianzhou Yu, Zhen Wang, Sheng Chen, Mobai Li, Dehang Yang, Tianyi Hu, Qiqi Deng, Xiaoyang Lu, Xue Zhang, Jia Liu, Wanlu Liu\*, Di Wang\*; A two-front nutrient supply environment fuels small intestinal physiology through differential regulation of nutrient absorption and host defense, *Cell*, 2024, 187(22), 6251-6271.
- Yaqi Su, Zhejian Yu, Siqian Jin, Zhipeng Ai, Ruihong Yuan, Xinyi Chen, Ziwei Xue, Yixin Guo, Di Chen, Hongqing Liang, Zuozhu Liu, Wanlu Liu\*; Comprehensive assessment of mRNA isoform detection methods for long-read sequencing data, *Nature Communications*, 2024, 15, 3972
- Yixin Guo, Ziwei Xue, Meiting Gong, Siqian Jin, Xindi Wu, Wanlu Liu\*; CRISPR-TE: a web-based tool to generate single guide RNAs targeting transposable elements, *Mobile DNA*, 2024, 14(1), 3
- Xinyu Xiang#, Yu Tao#, Jonathan DiRusso, Fei-Man Hsu, Jinchun Zhang, Ziwei Xue, Julien Pontis, Didier Trono, Wanlu Liu\*, Amander T. Clark\*; Human reproduction is regulated by retrotransposons derived from ancient Hominidae-specific viral infections, *Nature Communications*, 2022
- Lize Wu#, Ziwei Xue#, Siqian Jin, Jinchun Zhang, Yixin Guo, Yadan Bai, Xuexiao Jin, Chaochen Wang, Lie Wang, Zuozhu Liu, James Q. Wang, Linrong Lu\*, Wanlu Liu\*; huARdb: human Antigen Receptor database for interactive clonotype-transcriptome analysis at the single-cell level, *Nucleic Acids Research*, 2021, gkab857
- Yixin Guo, Ziwei Xue, Ruihong Yuan, Jingyi Jessica Li, William A. Pastor, Wanlu Liu\*; RAD: a web application to identify region associated differentially expressed genes, *Bioinformatics*, 2021, 37(17): 2741-2743.