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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, Jiaxin 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.