Hongjiang Liu

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EDUCATION

B.S. Biological Science (Poling Class) *2018-2023*
Nankai University, Advisor: Prof. Xinglu Huang
Poling Honors Degree *2023*
Nankai University

WORK EXPERIENCES

Visiting Student *2021-2022*
Institute for Human Genetics
*University of California, San Francisco (**UCSF**)*
Intern *2021*
National Engineering Lab of Neuromodulation
Tsinghua University

TECHNICAL SKILLS

Languages	R, Python, Shell, HTML, CSS, Markdown, LaTeX, etc.
Software	Ai, VSCode, RStudio, Nginx, IGV, PyMOL, ImageJ, etc.
Wet Lab	Mutagenesis, mRNA Display, Molecular Clone, Cell Culture, Sequencing, CRISPR Screen, etc.

PUBLICATIONS

[1] Sun, W.*, Wang, N.*, **Liu, H.**, *et al.* Genetically Encoded Chemical Cross-linking of RNA in vivo. ***Nature Chemistry*.** 15, 21–32 (2023). (3rd author)
[2] Yang, X., Wen, J., Yang, H., *et al.* Functional characterization of Alzheimer's disease genetic variants in microglia. ***Nature Genetics*** 55, 1735–1744 (2023). (14th author)
[3] Yang, J.*, Chung, C.*, Koach, J., *et al.* Phase separation of Myc differentially regulates gene transcription. ***bioRxiv*** [Preprint] (4th author)
[4] Wei, Y., Wu, X., Wu, Y., *et al.* Prediction and design of nanozymes using explainable machine learning. ***Advanced Materials*.** (2022): 2201736. (4th author)
[5] Sun, Z., Liu, Q., Wang, X., *et al.* Bioorthogonal catalytic nanozyme-mediated lysosomal membrane leakage for targeted drug delivery. ***Theranostics*.** 2022;12(3):1132-1147. (10th author)

RESEARCH INTERESTS

Genomics & Epigenomics, Bioinformatics, Sequencing Techniques

SELECTED RESEARCH EXPERIENCES

GRIP-seq, a novel sequencing technique detects RNA m6A sites using unnatural amino acids
PI: Prof. Yin Shen & Prof. Lei Wang *Oct. 2021 – Jul. 2022*
Institute for Human Genetics, UCSF

The analysis of multiple sequencing libraries (scRNA-seq, ATAC-seq, RNA-seq, ChIP-seq, CLIP-seq, Hi-C, GWAS, CRISPR, etc.)
PI: Prof. Yin Shen *Oct. 2021 – Jul. 2022*
Institute for Human Genetics, UCSF

Analyzing the delivery efficiency of nanodrugs in tumors based on machine learning
PI: Prof. Xinglu Huang *Feb. 2021 – Jun. 2021*
State Key Laboratory of Medicinal Chemical Biology, Nankai University

ACADEMIC AWARDS

Scholarship of Academic Progress, Nankai University 2021
Third Prize in Innovative Scientific Research for Undergraduates of Nankai University 2021