

Zedao Liu

Email: liuzedaosk@163.com

Tel: (+86) 18661706792

Address: Based in Beijing, China

Education & Training

B.S. in Life Sciences (Shandong University, Tsingtao, China)	2015 - 2019
Research assistant (University of California, Los Angeles, CA, USA)	July. 2018 - Jan. 2019
Bioinformatics software development (Analytical Biosciences, Beijing, China).	2019 - 2020
Ph.D. candidate in bioinformatics (Peking University, Beijing, China)	2020 – 2025 (expected)

Publications

- **Liu, Z.** et al. A single-cell atlas reveals immune heterogeneity in anti-PD-1-treated non-small cell lung cancer. *Cell* (accepted).
- **Liu, Z.** & Zhang, Z. Mapping cell types across human tissues. *Science* **376**, 695-696 (2022) (We reviewed a Science manuscript and a commentary invitation was sent to Prof. Zemin Zhang).
- Zhang, C., Sun, Y.X., Yi, D.C., Jiang, B.Y., Yan, L.X., **Liu, Z.D.**, Peng, L.S., Zhang, W.J., Sun, H., Chen, Z.Y., et al. *et al.* Neoadjuvant sintilimab plus chemotherapy in EGFR-mutant NSCLC: Phase 2 trial interim results (NEOTIDE/CTONG2104). *Cell Rep Med*, 101615 (2024).
- Li, C., Liu, B., Kang, B., **Liu, Z.**, Liu, Y., Chen, C., ... Zhang, Z. (2020). SciBet as a portable and fast single cell type identifier. *Nature Communications*, 11(1).

Professional Experiences

Peking University (Prof. Zemin Zhang as supervisor)

Ph.D. training	Sept. 2020 – Oct. 2025
Responsible for the neoadjuvant NSCLC flagship project	
<ul style="list-style-type: none">• study design, and communication with >10 cancer hospitals• intellectual input for hospital satellite projects	
Lymph node sequencing for neoadjuvant NSCLC (CICAMS)	
neoadjuvant anti-PD-1 in <i>EGFR</i> ⁺ patients (GDPH)	
neoadjuvant anti-PD-1 + anti-CTLA-4 (SHPH)	
<ul style="list-style-type: none">• participation in funding acquisition<ul style="list-style-type: none">○ MSD OTSP study (#100668), 1M USD○ national natural science foundation of China (#92259205), 360K USD	

Analytical Biosciences Limited, Beijing, China (Prof. Zemin Zhang as company founder)

Department of bioinformatics software	Mar. 2019 – Oct. 2020
<ul style="list-style-type: none">• Presentation, introduction, demo, and bidding for software product (300K USD sales)• data curation team lead (700+ datasets)• scRNA-seq Database software design and development (MongoDB + Django)	

University of California, Los Angeles, CA, USA

Jul. 2018 - Jan. 2019

Department of Biological Chemistry (Lars Dreier lab)

Project: ESCRT's role in autophagy revealed by a novel autophagosome closure assay

- Established a novel autophagosome closure assay using high resolution fluorescence microscopy.
- Application of the assay to demonstrate ESCRT-dependent autophagosome closure.
- Developed a series of high throughput image analysis workflows using Python & ImageJ.

Presentations

- "ESCRT's role in autophagy revealed by a novel autophagosome closure assay",
(1/8) postdoc and graduate session, **The 2018 UCLA International Mitochondria Symposium**. (Annual symposium for west coast Mitochondria researchers)

Honors & Awards

2019	Featured employee of Analytical Biosciences, Limited	1 nominee per department
2018	UCLA-CSST (Cross-disciplinary Scholars in Science and Technology) scholarship	\$5,343 (summer research program, 100 in China from all discipline from top 20 universities)

Technical strength

Language Tests

JLPT N2	(2024.12, results to be announced)	
TOEFL iBT	113/120 (Reading 30, Listening 29, Speaking 24, Writing 30)	2 nd test
GRE	Verbal 160/170, Quantitative 170/170, AW 4.0/6.0	1 st & only test