XINXIN LI

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EDUCATION

University of Science and Technology of China **Anhui, China**
Bachelor of Science in Biosciences Sep.2022 – Jun.2026(Expected)
• Overall GPA: 3.30/4.3 Score:83.27/100
2022-2023: 3.08/4.3, 80.58/100; 2023-2024: 3.28/4.3, 82.81/100; 2024-2025: 3.77/4.3, 89.5/100
Selected Courses
Molecular Biology Ⅱ(A-,89/100) Immunobiology(A,91/100) Introduction to Synthetic Biology(A,90/100)

HONORS

• **National Encouragement Scholarship** 2024
• Endeavour Scholarship 2023

RESEARCH INTERESTS

Cancer, Clinical treatment, Cell metabolism, Organoids, Bioinformatics;

PUBLICATIONS

[1] Glioblastoma quiescent cells hijack astrocyte-derived mitochondria to drive activation and malignancy
Hongrui Zhu; Li Wang; Qi Wu; Mengmeng Yang; **Xinxin Li**; Youqiong Ye; Wenchao Zhou; Xuedan Sun; Sheng Wang; Qingsong Hu,**Cell Metabolism(submitted)**, June.2025
[2] Astrocytic glycogen induces ATAD3A oligomerization-dependent mitochondrial fragmentation to exacerbate neuropathology and delay recovery after ischemic stroke
Hongrui Zhu; Mengmeng Yang; Zhong Li; Li Wang; Jiaming Zhang; **Xinxin Li**; Qingsong Hu; Sheng Wang, **Nature Communications(under review)**, June.2025

RESEARCH EXPERIENCE

The role of Folr2$^+$ Macrophages in diabetic peripheral neuropathy USTC
Advisors: **Prof.** **Sheng Wang** (Department of Anesthesiology and Pain Medicine, First Affiliated Hospital of USTC)
March. 2025 – So far
Major Researcher
- Discovered and validated the increase of FOLR2$^+$ Macrophages in DRG in diabetic mouse through bioinformatic and histological analysis.
- Confirmed that FOLR2$^+$ Macrophages in DRG could ease the diabetic peripheral neuropathy by testing CRISPR-edited mouse's behavior and tissues.

National training Program for Innovation USTC
Advisors: **Prof.** **Qingsong Hu** (Department of Life Science and Medicine, USTC) May. 2024 - May. 2025
Team Leader & Major Researcher
Research on the role of astrocytic mitochondrial transfer in the progression of prostate cancer metastasis to the brain
- Identified that the brain metastasis cancer cells could receive mitochondrial from astrocytic.
- Found the mitochondrial transfer would enhance the reproduction ability of tumor cells and worsen the cancer.

Best program of the year.

Undergraduate Research Program USTC
Advisors: **Prof.** **Qingsong Hu** (Department of Life Science and Medicine, USTC) Nov. 2023 - Dec. 2024
Major Researcher
Construction and identification of a prostate cancer brain metastasis cell line
- Designed and built a cell line which could transfer to brain specifically by in vivo selection via intracardiac injection

TECHNICAL SKILLS

Molecular & Cellular: SDS-PAGE; Western Blot; Co-IP; DNA Gel electrophoresis; Immunofluorescence; PCR; Cloning; Cell culture; Transfection; RNAi; Flow cytometry;
Animal experiments: Mouse Model (Diabetic mouse model; Tumor model; CCI; SNI;); Stereotactic brain localization and injection; Heart perfusion; Primary cell extraction(Astrocyte; BMDM);
Bioinformatics: RNA-seq; Python-Scanpy(for scRNA-seq); R-ggplot2(and other packages for graph);
Software: LAS X; Snap Gene; ImageJ; FlowJo; GraphPad Prism; Origin; Adobe Illustrator; IGV;
Language: Proficient English