Qingqing Li

January 8th, 1996 | E-mail: qingqingli3631@outlook.com | Tel: +86 177 2192 5845

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EDUCATION

Master of Medicine   Xuzhou Medical University, China   **Sep 2020 - Jun 2023**
- GPA: 86.30/100
- Thesis: *Microglial Lysosomal Mechanisms for Major Depressive Disorder Alleviation*

Bachelor of Medicine   North Sichuan Medical College, China   **Sep 2015 - Jun 2020**
- GPA: 80.06/100 (range: 38/197)

RESEARCH EXPERIENCE

Research Assistant

Shanghai Pudong New Area Mental Health Center, Tongji University School of Medicine, Shanghai, China   **Jun 2025 - Aug 2025**

Supervisor: Dr. Weijie Xie

- Conducted integrative genetic analyses by combining GWAS data with Mendelian Randomization, Transcriptome-Wide Association Study (TWAS), Proteome-Wide Association Study (PWAS), and Bayesian colocalization.
- Constructed a cross-disorder, cross-brain regional genetic causal map, elucidating the genetic underpinnings of comorbidity mechanisms in psychiatric disorders.

Research Assistant

Shanghai Pudong New Area Mental Health Center, Tongji University School of Medicine, Shanghai, China   **Aug 2024 - May 2025**

Supervisor: Dr. Weijie Xie

- Utilized single-cell RNA sequencing data analysis (*e.g.*, CellChat, SCENIC, Monocle) integrated with Mendelian Randomization and Machine Learning models (*e.g.*, random forest, SVM).
- Identified impaired microglia subtypes characterized by metabolic dysfunction and chronic neuroinflammation, which drive aberrant microglia-GABAergic neuron crosstalk in Major Depressive Disorder.

Research Assistant

Shanghai Mental Health Center, Shanghai, China   **Jul 2023 - Present**

Supervisor: Dr. Jiaoqiong Guan

- Performing integrative bioinformatics analyses (*e.g.*, WGCNA, Machine Learning, single-cell analysis) and validation experiments using the Chronic Unpredictable Mild Stress model, with molecular techniques (Immunohistochemistry Staining and Western Blot).
- Aiming to identify an immune target that may underlie the shared immune pathogenesis which drives the comorbidity progression of Systemic Lupus Erythematosus and Major Depressive Disorder.

Master's Student Researcher (Focused on Microglial Mechanisms in Depression)

Xuzhou Medical University, Xuzhou, China   **Sep 2020 - Jun 2023**

Supervisor: Prof. Dr. Wuyang Wang

- Applied *in vivo* (LPS / Chronic Restraint Stress mouse model, stereotaxic surgery) and *in*

vitro (primary microglia isolation and culture) techniques.

- Characterized a novel microglial lysosomal molecular mechanism implicated in the pathophysiology of depressive-like models and proposed a potential targeted intervention.

PUBLICATIONS

- **Qingqing Li,** *et al*. Mendelian Randomization Analysis of Multiregional Psychiatric Disorders. **(Submitted)**
- **Qingqing Li**, *et al*. Single-Cell Dissection of Microglial Heterogeneity Reveals Subtype-Driven Immune-Metabolic Crosstalk in Major Depressive Disorder. **(Submitted)**
- **Qingqing Li**, *et al*. Microglia sing the prelude of neuroinflammation-associated depression. *Molecular Neurobiology*. 2025 Apr;62(4):5311-5332. **(JCR Q1)**
- Yanhong Xing, Meng-Meng Wang, Feifei Zhang, Tianli Xin, Xinyan Wang, Rong Chen, Zhongheng Sui, Yawei Dong, Dongxue Xu, Xingyu Qian, Qixia Lu, **Qingqing Li,** *et al*. Lysosomes finely control macrophage inflammatory function via regulating the release of lysosomal Fe^{2+} through TRPML1 channel. *Nature Communications*. 2025 Jan 24;16(1):985. **(JCR Q1)**
- Jiansong Qi, **Qingqing Li,** *et al*. MCOLN1/TRPML1 in the lysosome: a promising target for autophagy modulation in diverse diseases. *Autophagy*. 2024 Aug;20(8):1712-1722. **(JCR Q1)**

SKILLS

- **Wet-Lab Techniques**: qPCR, Western Blot, Immunofluorescence/Immunohistochemistry, ELISA, Golgi Staining, Electrophoresis, Cell Culture, Animal Models.
- **Bioinformatics Tools:** R (Bioconductor, Tidyverse), Python (Pandas, Numpy).
- **Genetic Association:** Mendelian Randomization (TwoSampleMR), TWAS/PWAS (FUSION), Colocalization (coloc)
- **Single-Cell Omics**: scRNA-seq analysis (Seurat), Trajectory Inference (Monocle), Cell-Cell Communication (CellChat), Regulatory Network (PySCENIC).
- **Software:** EndNote, GraphPad Prism, ImageJ, Imaris, Adobe Illustrator & Photoshop.
- **Languages:** Mandarin Chinese (Native), English (IELTS 6.5).

ACADEMIC SERVICE

- Peer Reviewer for *Molecular Neurobiology* and *Cellular and Molecular Neurobiology*.
  2024-Present

HONORS

- Postgraduate Scholarship, Xuzhou Medical University.   **2020-2023**

REFERENCES

- Prof. Dr. **Wuyang Wang** (Master's Thesis Supervisor) | wuyangwang80@gmail.com
- Prof. Dr. **Jiaoqiong Guan** (Research Supervisor) | guanjiaoqiong@kmmu.edu.cn
- Prof. Dr. **Weijie Xie** (Research Supervisor) | xwjginseng@126.com