Qingqing Li

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Education

Master of Medicine Xuzhou Medical University **June 2023**
GPA: 86.30/100 Major: Anesthesiology
Master of Medicine North Sichuan Medical College **June 2020**
GPA: 80.06/100 (range: 38/197) Major: Anesthesiology

Publications

1. **Qingqing Li**, et al. "Microglia sing the prelude of neuroinflammation-associated depression". *Molecular Neurobiology*. **(Minor Revision Submitted)**
2. **Qingqing Li**, et al. "Systemic Lupus Erythematosus Comorbid with Major Depressive Disorder from the Perspective of IL-7R". *Aging-US*. **(Accepted, 2024)**
3. Jiansong Qi, **Qingqing Li,** et al. "MCOLN1/TRPML1 in the lysosome: a promising target for autophagy modulation in diverse diseases". *Autophagy*. 24:1-11. DOI: 10.1080/15548627.2024.2333715/.(2024)

Research Experiences

07/2023–03/2024 The Effects of Cytokines on Addiction (In progress)
Supervisor: Ti-Fei Yuan, Shanghai Mental Health Center, Shanghai Jiao Tong University
Position: Research assistant **Shanghai, China**

- Aimed at unencoding the molecular mechanisms of cytokine effects on addiction.
- Used both wild-type and transgenic mice to establish the animal model.
- Applied methods of basic experiments (DNA electrophoresis, behavioral test, immunofluorescence, etc).
- Preliminary data indicated significant effects of certain cytokines on addiction.

09/2020-06/2023 Target Microglial TRPML1 to Alleviate Depression (In progress)
Supervisor: Wuyang Wang, Xuzhou Medical University
Position: Graduate student **Xuzhou, China**

- Aimed at molecular mechanisms underlying neuroinflammation and depression.
- Used three animal models to verify the role of microglial TRPML1 in depression.
- Applied methods of *in vivo* and *in vitro* experiments (cell culture; stereotaxic surgery) and basic experiments (qPCR, WB, ELISA, immunofluorescence, etc).
- Processed all data, such as 3D reconstruction rendering, and bioinformatic analysis.
- Concluded a new immune signaling pathway of microglia in the pathogenesis of depression.

01/2023-04/2024 Investigate the Immunological Relationship between Systemic Lupus Erythematosus (SLE) and Depression (Completed)
Supervisor: Jiaoqiong Guan, Shanghai Mental Health Center
Position: Research assistant **Shanghai, China**

- Aimed at shared mechanism in the pathogenesis of SLE and depression.

- Used bioinformatics methods of WGCNA, GO&KEGG, PPI, machine learning algorithms, ROC curves, GSEA, immune infiltration, single-cell analysis, and validation experiments of WB, immunohistochemistry staining.
- Concluded that targeting the IL-7/IL-7R pathway could potentially contribute to managing the concurrent progression of SLE and depression, with a particular emphasis on the substantial involvement of IL-7/IL-7R in depression.

Awards

09/2017-07/2018 Third-class Scholarship (top 7%)

09/2018-06/2019 Sichuan Province's University Student Comprehensive Quality A Grade Certificate

09/2020-06/2021 Second-class Postgraduate Scholarship

09/2021-06/2022 Second-class Postgraduate Scholarship

09/2022-06/2023 Second-class Postgraduate Scholarship

Skills

- **Computer programming:**
  R (Bioinformatics analysis, e.g., TWAS, PWAS, MR, Single-cell analysis, Machine learning algorithms, Multi-omics analysis), Python (Machine learning basics).
- **Language:** Mandarin (Native), English (Fluent), Japanese (Basic).
- **Software:** Microsoft Office, EndNote, GraphPad, Adobe Photoshop, **Adobe Illustrator** (Proficient), Image J, Imaris.

Referees

- **Wuyang Wang** (Thesis Advisor)
  wuyangwang80@gmail.com

Ti-Fei Yuan (Project Manager)
ytf0707@126.com