

Li YuHan

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Research Interests: Neurobiology • Oncology • Targeted Therapeutic for M.S or Direct PHD



EDUCATION

University of Macau University of Science and Technology (MUST) | Macau, China

Bachelor of Science in Pharmacy | Sep 2021 – Jun 2026

- **GPA:** 3.2/4.0 | College English Elite Class (Top 10%)
- **TOFEL:** 95

PUBLICATIONS

- **Lycorine Pre-Treatment Alleviates Microglia Inflammation After Cerebral Ischemia by Inhibiting NF-κB Phosphorylation | Brain Sciences (MDPI, IF:3.3), Co-first author**
Zheng W, Wu W, *Li Y, Qin B, Wang Y, Zeng Y, Law BYK, Wong VKW. Lycorine pre-treatment alleviates microglia inflammation after cerebral ischemia by inhibiting NF-κB phosphorylation. *Brain Sci.* 2025;15(3):290. doi:10.3390/brainsci15030290
- **A comprehensive strategy of lipidomics and pharmacokinetics based on ultra-high-performance liquid chromatography-mass spectrometry of Shaoyao Gancan Decoction | Separation Science (IF:2.8), Second author**
Li X, Xie J, *Li Y, et al. A comprehensive strategy of lipidomics and pharmacokinetics based on ultra-high-performance liquid chromatography-mass spectrometry of Shaoyao Gancan Decoction [published correction appears in *J Sep Sci.* 2025;48(1):e70050. doi:10.1002/jssc.70050]. *J Sep Sci.* 2024;47(17):e2400421. doi:10.1002/jssc.202400421

RESEARCH EXPERIENCE

State Key Laboratory of Quality Research in Chinese Medicine (SKL) | Macau, China

Undergraduate Researcher | Sep 2021 – Present (Total 5000 hours)

- Mainly engaged in **Ischemic Stroke & Lycorine**, with secondary involvement in **Exosome** isolation and characterization.
- Techniques: MCAO rodent models, qPCR, WB, Experimental design.
- Co-authored 2 SCI papers (1 co-first author)

Drug Discovery 2024 | Boston, USA

- Presented poster “Molecular Insights into Traditional Chinese Medicine Compounds for the Treatment of Ischemic Stroke”.
- Featured Target protein and compound selection & Molecular dynamics simulation & RNA-seq data analysis.

PROFESSIONAL EXPERIENCE

Shenzhen Dakewe Biotech Co., Ltd. | Shenzhen, China

Lab Technician Intern (Pathology) | Jun 2023 – Aug 2023

- Processed over 50 tissue samples to compare the performance of a novel staining reagent developed by the company against the target product using **hematoxylin and eosin (H&E) staining** and **immunohistochemistry (IHC)**, including samples from lung, bladder, and pancreatic cancers.

Shenzhen Yantian Hospital | Shenzhen, China

Pharmacy Intern | Jul 2024 – Aug 2024

- Involved in auditing over 100 outpatient prescriptions per day for potential drug-related risks.

SKILLS

- **Wet Lab:**
 - Cell culture (BV-2 microglial cells)
 - MTT cell viability assay
 - Immunofluorescence staining (Phalloidin-FITC/DAPI)
 - RT-qPCR
 - Western blotting
 - Rat MCAO model surgery (middle cerebral artery occlusion)
 - TTC staining for infarct volume measurement
 - Multiplex cytokine profiling (BD FACSAria III flow cytometry)
 - H&E staining / Immunohistochemistry (IHC) staining
 - **Data Analysis:** GraphPad Prism, ImageJ
 - **Python** (Michigan University Certified)
 - **Languages:** Mandarin (Native), English (Fluent)
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CORE COURSES & LABORATORY PRACTICE

Core Courses

Analytical Chemistry
Anatomy & Physiology
Clinical Pharmaceutics
Clinical Pharmacology & Pharmacotherapeutics
Fundamental Chemistry for Pharmaceutics
Immunology & Microbiology
Intelligent Nano Drug Delivery System
Lecture of Frontier in Pharmacy
Medicinal Chemistry
Pathological Physiology
Pharmaceutical Analysis
Pharmaceutics
Phytochemistry of Chinese Medicines
Toxicology & Drug Abuse

Laboratory Internships

Analytical Chemistry
Anatomy & Physiology
Biochemistry & Molecular Biology
Fundamental Chemistry
Fundamental Chemistry for Pharmaceutics
Medicinal Chemistry
Pharmaceutical Analysis
Phytochemistry of Chinese Medicines
Pharmaceutics
Pharmacology