**CHEN Xi**

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***EDUCATION***

**Macau University of Science and Technology (MUST)**  Sept. 2021 - Aug. 2025

Major: Food and Nutritional Sciences

Expected Degree: *Bachelor of Science*

Current GPA: 3.37/4.0; 3.56/4.0 (after WES Equivalency)

Core Modules: Introduction to Food and Nutrition Sciences, Immunology and Microbiology, Analytical Chemistry, Food Chemistry and Analysis, Food Processing Technology, Biochemistry and Molecular Biology, Clinical Nutrition.

***ACADEMIC PRACTICES***

**The First Affiliated Hospital of Sun Yat-sen University (Top Chinese Tertiary Hospital)**

*Research Assistant, Professor WAN Yong’s Lab* July - Sept. 2024

*Research Aim: Investigating the role of macrophage-derived CXCL4 following spinal cord injury and its impact on the pericyte-to-myofibroblast transition process.*

*Research Result: Research paper accepted by Experimental & Molecular Medicine journal.*

* **Immunofluorescence Experiments:** Conducted and optimized immunofluorescence procedures, including sample preparation, antibody selection, and image acquisition and analysis.
* **Western Blot Analysis:** Participated in essential steps of Western blot, from protein separation and gel electrophoresis to membrane transfer, antibody incubation, and imaging. Acquired hands-on experience with various antibodies and protein detection, improving data quality and troubleshooting skills.
* **Immunoblotting:** Managed end-to-end processes, including experimental design, sample preparation, and diverse staining techniques.
* **Data Recording and Analysis:** Conducted experiments strictly following standard operating procedures (SOPs), ensuring accuracy in data recording and analysis.

**Literature Review on Hydroxycinnamic Acids in Chicory**  June - Nov. 2024

*Research Assistant, Co-author, Professor PENG Ye’s Lab*

*Research Result: Completed the manuscript for this review paper and currently preparing it for submission*

* Conducted extensive literature searches and reviewed a wide range of academic sources to compile relevant data on hydroxycinnamic acid, particularly its bioactive properties and its effects on gastrointestinal health.
* Developed a quantitative analysis table, synthesizing data from past studies to identify trends related to hydroxycinnamic acid’s efficacy in promoting gut health and alleviating symptoms of ulcerative colitis.
* Contributed to the Future Perspectives section, identifying potential areas for further research on hydroxycinnamic acid’s mechanisms and its application in digestive health treatments.

**The First Affiliated Hospital of Sun Yat-sen University (Top Chinese Tertiary Hospital)**

*Research Assistant, Professor WAN Yong’s Lab* July - Sept. 2023

* Participated in the initiation and development of the above research project under the guidance of Professor Wan.
* Conducted single-cell sequencing analysis to examine gene expression patterns at cellular resolution.
* Analyzed spatial transcriptomics data to map gene expression in tissue samples, integrating spatial and molecular information to study cellular organization and interactions.
* Independently developed proficiency in R programming to efficiently process, visualize, and interpret high-dimensional data sets, using various analytical tools to extract key biological insights.

***ACADEMIC ACHIEVEMENT***

Wan, Y., Li, X., Li, G., Wang, L., Zeng, X., Chen, J., Zhang, D., **Chen, X.,** & Zhi, X. (2024). Profibrotic macrophage-derived CXCL4 promotes pericyte-to-myofibroblast transition after spinal cord injury. *Experimental & Molecular Medicine,* (Status: accepted, pending publication)

***EXTRACURRICULAR ACTIVITIES***

**MUST Badminton Club**Sept. 2021 - June 2023

*Head of the Club & Secretary*

* Organized inter-school and intra-school badminton tournaments, coordinating with participants, and ensuring smooth event execution.
* Developed recruitment strategies targeting new students, organized introductory events and tryouts, and increased membership by 10% through targeted outreach efforts.

***SKILLS***

Language: Chinese Mandarin (Native); English (Fluent, IELTS 7.0, with the speaking section 7.0)

Professional: Western Blotting, Cell Culture & Passaging, Immunofluorescence

IT: R Programming, Python Programming, Jetson Nano AI Software, EndNote