Xiao Liang 梁 潇

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EDUCATION

Fudan University, PhD program at School of Basic Medical Sciences	09/2018 – 06/2023
Westlake University, Joint PhD program at School of Life Sciences	09/2018 – 06/2023
University of Helsinki, Exchange program at Department of Chemistry	08/2016 – 12/2016
Wuhan University, Undergraduate program at College of Chemistry and Molecular Science	09/2014 – 06/2018

RESEARCH

Laboratory for Proteomic Big Data, Westlake University (Supervisor: Tiannan Guo) — 04/2018 – 06/2023

Investigate the molecular mechanisms of COVID-19 and long COVID.

Develop mass spectrometry-based proteomics technology.

Center for Analytical Tests, Wuhan University (Supervisor: Hua Tong) — 09/2017 – 01/2018

Bachelor thesis: characterization and chemical restoration of Chinese silk relics.

Laboratory of Advanced Nanomaterials, Wuhan University (Supervisor: Lei Fu) — 12/2015 – 08/2016

Fabricate two-dimensional nanomaterial-based semiconductor devices.

HONORS & AWARDS

Sino Biological Award, Westlake University	10/2022
Finalist of Human Proteome Organization (HUPO) 2022 Thesis Competition	08/2022
Dean's Award, Westlake University	01/2022
Best Posters From Asia, HUPO 2021 Conference	11/2021
Best Presentation Award, Virtual Podium Asia Pacific Conference	11/2021
Suwu Society Scholarship, Westlake University	10/2021
National Scholarship	10/2019
First prize at National Students Innovation and Entrepreneurship Training Competition	11/2017
Exchange Program Student Scholarship, Wuhan University	09/2016
First prize at National English Competition for College Students	04/2016

MEMBERSHIPS

HUPO Early Career Researcher Initiative, member	05/2021 –
HUPO-China, copywrite volunteer	05/2021 –
Chinese Calligrapher Association (Shucheng City, Anhui Province), executive	01/2016 –

SELECTED PUBLICATIONS

Eleven publicated papers with over 1,000 citations in total. Please refer here for a complete list. #, first and co-first authors.

6. **Liang, X.#**; Sun, R.; Wang, J.; Zhou, K., Li, J., *et al.*, Proteomics Investigation of Diverse Serological Patterns in COVID-19. *Molecular & Cellular Proteomics*, 2023, 22(2): 100493. *I led a medical project to define and analyze the diversity of serum antibody titers in COVID-19.*

5. Wang, J.#; **Liang, X.#**; Zheng, Y.#; Zhu, Y.#; Zhou, K.#, *et al.*, Pulmonary and Renal Long COVID at Two-year Revisit. Submitted to *Cell Reports Medicine* and in revision 2022. *I led a translational medicine project to integrate two-year clinical, imaging and multi-omics data of COVID-19 survivors, and thereby predict the lung and kidney long COVID symptoms with machine learning, achieving verifiable biomarker results with an accuracy of over 90%.*

4. Xu, L.#; **Liang, X.#**; Zhen, W.#; Xue, Z.; Zhang, F., *et al.*, A common mechanism of temperature-sensing in thermoTRP channels. Submitted to *The EMBO Journal* and in revision 2022. *I collaborated on a mass spectrometry methodological project to build a high-throughput protein complex analysis pipeline.*

3. Bao, J.#; Liu, S.#; **Liang, X.#**; Huang, W.#; Wang, C., *et al.*, A simple prediction model for COVID-19 liver dysfunction in patients with normal hepatic biochemicals. *Life Science Alliance* 2022, 6(1): e202201576. 2022. *I collaborated on a translational medicine project to analyze liver injuries during COVID-19 based on clinical data and proteomics.*

2. Yan, H.#; **Liang, X.#**; Du, J.#; He, Z.; Wang, Y., *et al.*, Proteomic and metabolomic investigation of serum lactate dehydrogenase elevation in COVID-19 patients. *Proteomics* 2021, 21 (15), 2100002. *I collaborated on a medical project to investigate lactate dehydrogenase overexpression in COVID-19 patients based on multi-omics.*

1. Ge, W.#; **Liang, X.#**; Zhang, F.#; Hu, Y.#; Xu, L., *et al.*, Computational optimization of spectral library size improves DIA-MS proteome coverage and applications to 15 tumors. *Journal of Proteome Research* 2021, 20 (12), 5392-5401. *I collaborated on a mass spectrometry methodological project to develop a bioinformatics software with improved proteome identification performances.*

PATENTS

3. Guo, T., **Liang, X.**, Chen, C., Shi, Y. A analytical method to enhance body fluid proteome depth. ZL202210399034.7 [Chinese patent]

2. Guo, T., **Liang, X.**, Shi, Y., Wang, Y. A method to eliminate peptide carry-overs in liquid chromatography. ZL202210103388.2 [Chinese patent]

1. Guo, T., **Liang, X.**, Zhu, Y. Protein/peptide carriers enhances proteomics efficiency. ZL202010762585.6 [Chinese patent]

SELECTED POSTERS AND TALKS

2. Two-year Characterization of Pulmonary and Renal long COVID. *HUPO* 2022, Cancun, Mexico.

1. Multi-omics Characterization of COVID-19 Reveals Risk Factors for One-year Sequelae. *HUPOReconnect* 2021, Online.