

**Dr. Jingjing Liu****Post-doctoral Research Fellow**

School of Chinese Medicine

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Email.: jingjing@hkbu.edu.hk**EMPLOYMENT****Postdoctoral Research Fellow (October 2023-till now),**

School of Chinese Medicine

Hong Kong Baptist University, Hong Kong, China

Mentor: Dr. Haitao LYU

EDUCATION**PhD Student (Biology) (September 2018-July 2023)**

Shanghai Center for Systems Biomedicine

Shanghai Jiao Tong University, Shanghai, China

Under Supervision of Professor Haitao Lyu

Topic of PhD Dissertation: Functional Metabolomics Deciphers Therapeutic

Discovery of Pancreatic Cancer

B.SC. (Biology) (September 2014-July 2018)

School of Life Sciences, Xiamen University, Xiamen, China

B.SC. (Mathematical Finance) (September 2014-July 2018)

School of Life Sciences, Xiamen University, Xiamen, China

HONORS & AWARDS

- Serving as a Youth Editorial Board Member for the *Chinese Medicine*
- Recipient of Shanghai Outstanding Graduate
- Recipient of Excellent Presentation Award of 2022 The 16th National Conference of Chinese Pharmacological Society.
- Recipient of The First Prize of Oral Presentation of 2022 The 3rd Sino-Russian International Postgraduate Forum
- Recipient of The Third Prize of Academic Poster of 2022 The 5th WLA Forum

- Recipient of 2019-2020 Outstanding Graduate Student Scholarship of Shanghai Jiao Tong University
- Recipient of 2019-2020 The First-Class Scholarship of SCSB in Shanghai Jiao Tong University
- Recipient of 2018-2019 The First-Class Scholarship of SCSB in Shanghai Jiao Tong University

PEER-REVIEWED REFEREE

Phytomedicine

Acta Pharmaceutica Sinica

Internal Research Grant for Southwest Medical University

Chinese Medicine

PEER-REVIEWED PUBLICATIONS

1. Jing, W[#], Dong, S[#], Xu, Y[#], **Liu, J[#]**, Ren, J, Liu, X, Zhu, M, Zhang, M, Shi, H, Li, N, Xia, P, Lu, H*, & Wang, S*. (2025). Gut microbiota-derived tryptophan metabolites regulated by Wuji Wan to attenuate colitis through AhR signaling activation. *Acta Pharmaceutica Sinica B*, 15(1), 205-223. (Q1 TOP, IF: 14.3) (**#Co-First Author**)(***Corresponding Author**)
2. Fu, M[#], Li, Y[#], **Liu, J[#]**, Liu, J[#], Wei, J, Qiao, Y, Zhong, H, Han, D, Lu, H*, & Yao, L*. (2024). Zhishi Xiebai Guizhi Decoction modulates hypoxia and lipid toxicity to alleviate pulmonary vascular remodeling of pulmonary hypertension in rats. *Chin Med*, 19(1), 173. (Q1 TOP, IF: 5.3) (**#Co-First Author**)(***Corresponding Author**)
3. **Liu, J[#]**, Bao, C[#], Zhang, J[#], Han, Z*, Fang, H*, & Lu, H*. (2024). Artificial intelligence with mass spectrometry-based multimodal molecular profiling methods for advancing therapeutic discovery of infectious diseases. *Pharmacology and Therapeutics*, Accepted for the publication. (Q1 TOP, IF: 13.4) (**#Co-First Author**)(***Corresponding Author**)
4. **Liu, J.**, Jing, W., Wang, T., Hu, Z., & Lu, H*. (2022). Functional metabolomics revealed the dual activation of cAMP-AMP axis is a novel therapeutic target of pancreatic cancer. *Pharmacological Research*, 106554. (Q1 TOP, IF: 10.3)(***Corresponding Author**)

5. **Liu, J.**, Luo, X., Guo, R., Jing, W., & Lu, H*. (2020). Cell Metabolomics Reveals Berberine Inhibited Pancreatic Cancer Cell Viability and Metastasis by Regulating Citrate Metabolism. *J Proteome Res*, 19(9), 3825-3836. (Q1 TOP, IF: 5.3)(***Corresponding Author**)
6. Wang, T.#, **Liu, J.#**, Luo, X.#, Hu, L.#, & Lu, H*. (2021). Functional metabolomics innovates therapeutic discovery of traditional Chinese medicine derived functional compounds. *Pharmacol Ther*, 224, 107824. (Q1 TOP, IF: 13.4) (**#Co-First Author**)(***Corresponding Author**)
7. Hu, L.#, **Liu, J.#**, Zhang, W.#, Wang, T.#, Zhang, N., Lee, Y. H., & Lu, H*. (2020). Functional Metabolomics Decipher Biochemical Functions and Associated Mechanisms Underlie Small Molecule Metabolism. *Mass Spectrom Rev*, 39(5-6), 417-433. (Q1 TOP, IF: 9.0) (**#Co-First Author**)(***Corresponding Author**)
8. Luo, X., **Liu, J.**, Wang, H., & Lu, H*. (2020). Metabolomics identified new biomarkers for the precise diagnosis of pancreatic cancer and associated tissue metastasis. *Pharmacol Res*, 156, 104805. (Q1 TOP, IF: 10.3)(***Corresponding Author**)
9. Guo, R.#, Luo, X.#, **Liu, J.#**, Liu, L., Wang, X., & Lu, H*. (2020). Omics strategies decipher therapeutic discoveries of traditional Chinese medicine against different diseases at multiple layers molecular-level. *Pharmacol Res*, 152, 104627. (Q1 TOP, IF: 10.3) (**#Co-First Author**)(***Corresponding Author**)
10. Jing, W., Dong, S., Luo, X., **Liu, J.**, Wei, B., Du, W., Yang, L., Luo, H., Wang, Y., Wang, S., & Lu, H*. (2021). Berberine improves colitis by triggering AhR activation by microbial tryptophan catabolites. *Pharmacol Res*, 164, 105358. (Q1 TOP, IF: 10.3)(***Corresponding Author**)
11. Wang, T., Hu, L., Lu, J., Xiao, M., **Liu, J.**, Xia, H., & Lu, H*. (2022). Functional metabolomics revealed functional metabolic-characteristics of chronic hepatitis that is significantly differentiated from acute hepatitis in mice. *Pharmacol Res*, 180, 106248. (Q1 TOP, IF: 10.3)(***Corresponding Author**)
12. Guo, R., Luo, X., **Liu, J.**, & Lu, H*. (2021). Mass spectrometry based targeted metabolomics precisely characterized new functional metabolites that regulate biofilm formation in *Escherichia coli*. *Anal Chim Acta*, 1145, 26-36. (Q1 TOP, IF: 6.911)(***Corresponding Author**)

13. Wang, T.[#], Guo, R.[#], Hu, L.[#], **Liu, J.[#]**, and Lu, H.*. (2022). Mass Spectrometry-Based Targeted Metabolomics Revealed the Regulatory Roles of Magnesium on Biofilm Formation in Escherichia coli by Targeting Functional Metabolites. Journal of Analysis and Testing 6, 89-97. (**#Co-First Author**)(***Corresponding Author**)

CONFERENCE REPORT

1. Dr. Liu was invited to deliver a presentation entitled “Functional Metabolomics and Biomedical Applications Driven by Multimodal Interdisciplinary Molecular Science” in 2023 International Symposium on Metabolomics, October 28, 2023.
2. Dr. Liu was invited to deliver a presentation entitled “Using Functional Metabolomics STORM Strategy to Identify New Therapeutic Targets for Pancreatic Cancer” in 2024 Academic Committee of National Key Laboratory of Omics and Disease, June 07,2024.
3. Dr. Liu was invited to deliver a presentation entitled “Functional Metabolomics-Driven Discovery and Characterization of Potential Therapeutic Targets for Pancreatic Cancer” in The Third National Academic Symposium for Pharmacy Graduate Students, July 06, 2023
4. Dr. Liu was invited to deliver a presentation entitled “Identifying novel therapeutic targets of pancreatic cancer with functional metabolomics STORM strategy” in 2023 The Chinese Mass Spectrometry Conference, June 12, 2023.
5. Dr. Liu was invited to deliver a presentation entitled “Innovations in Functional Metabolomics Strategies for Precision Diagnosis and Treatment of Pancreatic Cancer” in The Fourth Beijing Clinical Mass Spectrometry Forum, April 15, 2023.