

# 伍建林 博士



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## 研究方向

基於問題導向的質譜多組學 (POMIMS) 在生物醫學領域的應用，包括臨床疾病診斷與機制研究、食品和藥物功能成分發現和機制研究、藥食同源中藥複雜體系全成分解析關鍵技術及產品開發等。

## 教學科目

儀器分析、藥物分析、藥物分析實驗、分析化學、分析化學實驗、藥學基礎化學實驗、現代生物技術。

## 個人簡介

伍建林博士，男，現任中藥質量研究國家重點實驗室 (澳門科技大學) 副教授，博士生導師；兼任中國醫藥生物技術協會藥物分析專業委員會常務委員、亞太醫學生物免疫學會基礎免疫分會常務委員、中國藥學會藥物分析專業委員會委員、中國抗癌協會腫瘤代謝專業委員會委員、*J Pharm Anal, J Anal Testing* 和色譜雜誌青年編委等學術職務。建立了包括代謝流 (Metabolic Flux)、羧酸組學 (Carboxylomics)、微生物組學 (Microbiomics)、多肽組學 (Peptidomics) 和蛋白組學 (Proteomics) 的基於問題導向的質譜多組學整合分析技術 (Problem Oriented Multi-omics Integrated analysis technology based on Mass Spectrometry, POMIMS)，解決了複雜體系全成分多維度分析、微量和痕量成分定性定量及效應物質精準動態定位的難題，並廣泛應用在並廣泛應用在臨床疾病診斷和機制研究、藥物發現、藥食同源複雜體系全成分分析和產品綜合開發等方面。截至目前，一共發表學術論文 136 篇，SCI 論文 130 篇，總影響因子超過 1000 分。其中，2016 以來以第一和通訊作者 (含共同) 在 *Cell Res, Gastroenterology, Psychiat Clin Neuros, Environ Sci Tech, J Hazard Mater, Environ Int, Med Res Rev, Anal Chem, Trends Anal Chem, Int J Biol Macromol, J Pharm Anal, Food Chem, Food Res Int, J Agric Food Chem* 等 Q1 Top，及合作在 *J Hepatol, Gut, PNAS, Nat Commun*. 等雜誌上發表發表 SCI 論文 108 篇。影響因子大於 10 分的 21 篇，大於 20 的 6 篇，大於 40 的 1 篇，前 1% 高被引論文 4 篇。授權國際專利 5 項，國內專利 5 項。課題組已畢業的 9 個研究生 (5 個博士、4 個碩士) 中有 4 個獲得澳門政府科技發展基金會研究生科技研發獎。

## 教育背景

2005.11-2009.11 香港浸會大學化學系 分析化學專業 (質譜方向)，博士

2002.09-2004.07 日本新潟大學工學部 天然藥物化學專業，碩士

## 工作經歷

2018.07-至今 澳門科技大學中藥質量研究國家重點實驗室 副教授，博士生導師

2011.11-2018.06 澳門科技大學中藥質量研究國家重點實驗室 助理教授，博士生導師

2010.04-2011.11 香港大學李嘉誠醫學院病理系，博士後研究員

2004.10-2005.10 香港浸會大學化學系，研究助理

## 學術論文

一共發表學術論文共 136 篇，其中 2016-至今代表性 SCI 文章如下：

1. Q. Li, W. Hu, W.X. Liu, L.Y. Zhao, D. Huang, X. Liu, H. Chan, Y. Zhang, J. Zeng, O.O. Coker, W. Kang, S.S.M. Ng, L. Zhang, S.H. Wong, T. Gin, M.V. Chan\*, **J.L. Wu\***, J. Yu\*, W.K.K. Wu\*. *Streptococcus thermophilus* inhibits colorectal tumorigenesis through secreting  $\beta$ -galactosidase. *Gastroenterology* **2021**, *160*, 1179-1193. (Impact factor: 29.4, Q1 top, 3/93). Top 1% Highly Cited Paper (前 1% 高被引論文)
2. K. Li<sup>#</sup>, **J.L. Wu<sup>#</sup>**, B. Qin, Z. Fan, Q. Tang, W. Lu, H. Zhang, F. Xing, M. Meng, S. Zou, W. Wei, H. Chen, J. Cai, H. Wang, H. Zhang, J. Cai, L. Fang, X. Bian, C. Chen, P. Lan, B. Ghesquière, L. Fang\*, M.H. Lee\*. ILF3 is a substrate of SPOP for regulating serine biosynthesis in colorectal cancer. *Cell Res.* **2020**, *30*, 163-178. (<sup>#</sup>These authors contributed equally to this work). (Impact factor: 44.1, Q1 top, 4/194).
3. J. Zhou, J. Chen, S. Gong, Y. Ban, L. Zhang, Y. Liu, **J.L. Wu\***, N. Li\*. Isolation, Bioactivity, and Molecular Docking of a Rare Gastrodin Isocitrate and Diverse Parishin Derivatives from *Gastrodia elata* Blume. *ACS Omega* **2024**, DOI: 10.1021/acsomega.4c00436. (Impact factor: 4.1).
4. J. Chen, W. Miao, Y. Liu, J. Zhou, J. Han, L. Zhang, X. Bian, T. Zhong, **J.L. Wu\***, N. Li\*. Structural characterization, molecular dynamic simulation, and conformational visualization of a water-soluble glucan with high molecular weight from *Gastrodia elata* Blume. *Int J Biol Macromol.* **2024**, *263*, 130207. (Impact factor: 8.2, Q1 top, 5/86).
5. X. Hu, S. Gong, Q. He, **J.L. Wu\***, N. Li\*. Less is More: A New Perspective for Toxicity of Emerging Contaminants by Structures, Protein Adducts and Proteomics. *Trends Anal Chem.* **2023**, *167*, 117289. (Impact factor: 13.1, Q1 top, 1/86).
6. J. Han, S. Gong, X. Bian, Y. Qian, G. Wang, N. Li\*, **J.L. Wu\***. Polarity-regulated derivatization-assisted LC-MS method for amino-containing metabolites profiling in gastric cancer. *J Pharm Anal.* **2023**, *13*, 1353. (Impact factor: 8.8, Q1 top, 9/279).
7. Y. Gao, Y. Fu, N. Li, Y. Jiang, X. Liu, C. Gao, L. Wang, **J.L. Wu\***, T. Zhou\*. Carboxyl-containing Components Delineation via Feature-based Molecular Networking: A Key to Processing Conditions of Fermentation Soybean. *Food Chem.* **2023**, *423*, 136321. (Impact factor: 8.8, Q1 top, 9/142).
8. Y. Ge, X. Li, M. Huang, Z. Huang, M. Wu, B. Sun, L. Wang, **J.L. Wu\***, N. Li\*. Aroma correlation assisted volatilome coupled network analysis strategy to unveil main aroma-active volatiles of *Rosa roxburghii*. *Food Res Int.* **2023**, *169*, 112869. (Impact factor: 7.7, Q1 top, 13/144).

9. X. Bian, Y. Zhang, N. Li, M. Shi, X. Chen, H. Zhang, J. Liu\*, **J.L. Wu\***. Ultrasensitive quantification of trace amines based on N-phosphorylation labeling chip 2D LC-QQQ/MS. *J Pharm Anal.* **2023**, 13, 315. (Impact factor: 8.8, Q1 top, 9/279).
10. X. Bian, N. Zhou, Y. Zhao, Y. Fang, N. Li, X. Zhang, X. Wang, Y. Zhang, **J.L. Wu\***, T. Zhou\*. Identification of proline, 1-pyrroline-5-carboxylate and glutamic acid as biomarkers of depression reflecting brain metabolism using carboxylomics, a new metabolomics method. *Psychiat Clin Neuros.* **2023**, 77, 196. (Impact factor: 11.9, Q1 top, 8/212). Editor's Choice Article (編輯推薦文章).
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15. X. Hu, **J.L. Wu\***, W. Miao, F. Long, H. Pan, T. Peng, X. Yao, N. Li\*. Covalent Protein Modification: An Unignorable Factor for Bisphenol A-induced Hepatotoxicity. *Environ Sci Tech.* **2022**, 56, 9536-9545. (Impact factor: 11.4 Q1 top, 19/274).
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17. W. Miao, N. Li, **J.L. Wu\***. Food-polysaccharide utilization via in vitro fermentation: microbiota, structure, and function. *Curr Opin Food Sci.* **2022**, 48, 100911. (Impact factor 9.9 Q1 top, 7/143)
18. MS-FINDER Assisted Understanding the Flavonoids Profile in Temporal Dimension during Fermentation of Pu-erh Tea. X. Wang, N. Li\*, S. Chen1, Y. Ge, Y. Xiao, M. Zhao, **J.L. Wu\***. *J Agric Food Chem.* **2022**, 70, 7085. (Impact factor: 6.1, Q1 top, 6/59). Front Cover (封面文章)
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29. Y. Zhuo, Y. Zhang, M. Li, H. Wu, S. Gong, X. Hu, Y. Fu, X. Shen, B. Sun, **J.L. Wu\***, N. Li\*. Hepatotoxic Evaluation of Toosendanin via Biomarker Quantification and Pathway Mapping of Large-Scale Chemical Proteomics. *Food Chem Toxicol.* **2021**, 153, 112257. (Impact factor: 4.3, Q1 top, 15/94).
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33. S. Gong, Y. Zhuo, S.S. Chen, X. Hu, X.X. Fan, **J.L. Wu\***, N. Li\*. Quantification of Osimertinib and Metabolite-Protein Modification Reveals its High Potency and Long

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34. 李健民, 卓越, 張毅達, 李娜, 伍建林\*. 尺寸排阻-反相液相色譜-質譜聯用技術在大鼠腎臟翻譯後修飾蛋白質鑒定中的應用. *色譜* **2021**, 39, 87-95.
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### 學術職務

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