伍 建 林 博士/教授

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研究方向

基于问题导向的质谱多组学 (POMIMS) 在生物医学领域的应用，包括临床疾病诊断与机制研究、中药和食品功能成分深度挖掘和机制研究、药食同源中药复杂体系全成分解析关键共性技术及产业化等。

教學科目

仪器分析、药物分析、药物分析实验、分析化学、分析化学实验、药学基础化学实验、现代生物技术、高等药学实验方法。

个人简介

伍建林博士，男，现任中药质量研究国家重点实验室 (澳门科技大学) 教授，博士生导师；兼任中国分析测试协会 (CAIA) 理事、中国医药生物技术协会药物分析专业委员会常务委员、亚太医学生物免疫学会基础免疫分会常务委员、中国药学会药物分析专业委员会委员、*Journal of Pharmaceutical Analysis, Current Research in Food Science, Phytochemical Analysis, Allergy Medicine, Microbiota & Diseases* 和 *Health and Metabolism* 杂志编委等学术职务。建立了包括代谢流 (Metabolic Flux)、羧酸组学 (Carboxylomics)、微生物组学 (Microbiomics) 、多肽组学 (Peptidomics) 和蛋白组学 (Proteomics) 的基于问题导向的质谱多组学整合分析技术 (**P**roblem **O**riented **M**ulti-omics **I**ntegrated analysis technology based on **M**ass **S**pectrometry, **POMIMS**)，解决了复杂体系全成分多维度分析、微量痕量和难检测成分及效应物质精准动态定位的难题，并广泛应用在临床疾病诊断和机制研究、药物发现、药食同源复杂体系全成分解析和产品综合开发等方面。截至目前一共发表 SCI 论文 150 多篇，总影响因子超过 1000 分。其中，2019 以来以第一和通讯作者 (含共同) 在 *Cell Research, Gastroenterology, Journal of Pharmaceutical Analysis, Psychiatry and Clinical Neurosciences, Pediatric Allergy and Immunology, Environmental Science & Technology, Journal of Hazardous*

Materials, Environment International, Medicinal Research Reviews, TrAC Trends in Analytical Chemistry, Metabolism, Journal of Analysis and Testing, Food Hydrocolloids, International Journal of Biological Macromolecules, Current Opinion in Food Science, Food Chemistry, Food Chemistry X, Food Research International, Current Research in Food Science, Journal of Agricultural and Food Chemistry, BioScience Trends 和 *Ecotoxicology and Environmental Safety* 等 Q1 Top，及合作在 *Gut, Nature Communications, Proceedings of the National Academy of Sciences* 和 *Signal Transduction and Targeted Therapy* 等杂志上发表发表 SCI 论文 105 篇。授权和申请国际专利 5 项，国内专利 25 项。课题组已毕业的 11 个研究生中共有 4 个获得澳门政府科技发展基金会研究生科技研发奖。主持和共同主持各类竞争性基金 16 项，经费总额超过人民币 4500 万元。在产品开发方面开发了包括果冻、口服液、饮料和颗粒剂在内的具多种活性的药食同源产品 10 余种。

教育背景

2005.11-2009.11 香港浸会大学化学系 分析化学专业 (质谱方向)，博士
2002.09-2004.07 日本国立新潟大学工学部 植物化学专业，硕士

工作经历

2011.11-至　今　澳门科技大学中药质量研究国家重点实验室，助理教授、副教授、教授
2010.04-2011.11 香港大学李嘉诚医学院病理系，博士后研究员

学术论文

一共发表 SCI 学术论文共 150 多篇，其中 2019-至今代表性 SCI 文章如下：

1. Y. Ge, L. Zhang, W. Miao, S. Gong, L. Zhng, W. Bai, **J.L. Wu**[*], N. Li[*]. FPS_P/N: A two-dimensional mass spectrometry utilization program with precursor ion determination for accurately distinguishing anthocyanin from other flavonoids. *J Pharm Anal.* **2025**, doi.org/10.1016/j.jpha.2025.101385. (2024 Impact factor: 8.9, **Q1 top**, 14/352).
2. X. Hu, J. Liu, **J.L. Wu**[*], Z. Xiong, N. Li[*]. Chemical Proteomics Unraveling the Contribution of Covalent Protein. Modifications to Antidepressant Effects of Ketamine. *J Anal Test.* **2025**, doi.org/10.1007/s41664-025-00369-8. (2024 Impact factor: 7.0, **Q1 top**, 9/111).
3. X. Bian[*], Y. Zhuo, L. Zhou, Y. Zhu, N. Li, **J.L. Wu**[*]. Carboxylic acid metabolism in cancer: Mechanisms, microenvironment interactions, and therapeutic opportunities. *Metabolism* **2025**, *171*, 156334. (2024 Impact factor: 11.9, **Q1 top**, 9/191).
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N. Li*. Soybean fermentation drives the production of native neuroprotective peptides based on a peptidomics strategy. *Curr Res Food Sci.* **2025**, *10*, 101082. (2024 Impact factor: 7.0, **Q1 top**, 18/181).

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6. Y. Gao, T. Tian, X. Liu, Y. Zhang, P. Hai, W. Zhang, Y. Zhai, .C Wang*, **J.L. Wu***, J. Wen*, T. Zhou*. Spatial metabolomics and feature-based molecular networking to unveiling in-situ quality markers landscape and reflecting geographic origins of pomegranate seeds. *Food Chem.* **2025**, *471*, 142761. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
7. J. Chen, W. Yuan, W. Miao, S. Gong, J. Zhou, Y. Liu, **J.L. Wu***, N. Li*. In vitro and in vivo immune-enhancing effects of polysaccharides with different molecular weights and structural characteristics from Gastrodia elata Blume. *Int J Biol Macromol.* **2025**, *295*, 139526. (2024 Impact factor: 8.5, **Q1 top**, 6/94).
8. S. Gong, G Bai, Y. Ban, M. Liu, Y. Liu, Y. Wu, N Li*, **J.L. Wu***. The underappreciated diversity of furanocoumarins in grapefruits revealed by MassQL filtered molecular networking. *Food Chem X* **2025**, *25*, 102233. (2024 Impact factor: 8.2, **Q1 top**, 11/181).
9. W. Miao, N. Li* J. Chen, **J.L. Wu***. Composition-dependent MRM transitions and structure-indicative elution segments (CMTSES)-based LC-MS strategy for disaccharide profiling and isomer differentiation. *Anal Chim Acta* **2025**, *1337*, 343562. (2024 Impact factor: 6.0, **Q1**).
10. X. Hu, **J.L. Wu***, Q. He, Z. Xiong, N. Li*. Strategy for Cysteine-Targeting Covalent Inhibitors Screening using In-house Database based LC-MS/MS and Drug Repurposing. *J Pharm Anal.* **2025**, *15*, 101045. (2024 Impact factor: 8.9, **Q1 top**, 14/352).
11. J. Han, Q. Yang, Z. Zhi, N. Li*, **J.L. Wu***. Bromine signature coded derivatization LC-MS for specific profiling of carboxyl or carbonyl-containing metabolites in Mycoplasma pneumoniae infection. *Talanta* **2025**, *285*, 127345. (2024 Impact factor: 6.1, Q1).
12. M. Liu, Z. Ning, Y. Cheng, Z. Zheng, X. Yang, T. Zheng, N. Li*, **J.L. Wu***. The key to 2, 6-dichloro-1, 4-benzoquinone reproductive toxicity and green tea detoxification: Covalent binding and competitive binding. *Ecotoxicol Environ Saf.* **2024**, *286*, 117239. (2024 Impact factor: 6.1, **Q1 top**, 10/106).
13. W. Li, Q. Zhou, B. Lv, N. Li, X. Bian, L. Chen, M. Kong, Y. Shen, W. Zheng, J. Zhang, F. Luo, Z. Luo, J. Liu*, **J.L. Wu***. Ganoderma lucidum Polysaccharide Supplementation Significantly Activates T-Cell-Mediated Antitumor Immunity and Enhances Anti-PD-1 Immunotherapy Efficacy in Colorectal Cancer. *J Agric Food Chem.* **2024**, *72*, 12072. (2024 Impact factor: 6.2, **Q1 top**, 7/94).

14. 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. (2024 Impact factor: 8.5, **Q1 top**, 6/94).
15. X. Wang, X. Bian, P. Dong, L. Zhang, L. Zhang, C. Gao, H. Zeng, N. Li[*], **J.L. Wu**[*]. Food processing drives the toxic lectin reduction and bioactive peptide enhancement in Pinellia ternate. *Curr Res Food Sci.* **2024**, *9*, 100895. (2024 Impact factor: 7.0, **Q1 top**, 18/181).
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17. Y. Zuo, S. Gong, L. Zhang, J. Zhou, **J.L. Wu**[*], N. Li[*]. A Deep Mining Strategy for Peptide Rapid Identification in Lactobacillus reuteri Based on LC–MS/MS Integrated with FBMN and De Novo Sequencing. *Metabolites* **2024**, *14*, 467. (2024 Impact factor: 3.7, Q2).
18. 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. (2024 Impact factor: 12.0, **Q1 top,** 2/111).
19. 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. (2024 Impact factor: 8.9, **Q1 top**, 14/352).
20. 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. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
21. 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. (2024 Impact factor: 8.0, **Q1 top**, 13/181).
22. 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. (2024 Impact factor: 8.9, **Q1 top**, 14/352).
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a new metabolomics method. *Psychiat Clin Neuros*. **2023**, *77*, 196. (2024 Impact factor: 6.2, **Q1 top**, 21/288). Editor´s Choice Article

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25. W. Miao, X. Liu, N. Li, X. Bian, Y. Zhao, J. He, T. Zhou[*], **J.L. Wu**[*]. Polarity-extended composition profiling via LC-MS-based metabolomics approaches: A key to functional investigation of Citrus aurantium L. *Food Chem.* **2023**, *405*, 134988. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
26. Y. Zhang, X. Bian, G. Yan, B. Sun, W. Miao, M. Huang, N. Li[*], **J.L. Wu**[*]. Discovery of novel ascorbic acid derivatives and other metabolites in fruit of Rosa Roxburghii Tratt through untargeted metabolomics and feature-based molecular networking. *Food Chem.* **2023**, *405*, 134807. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
27. L. Zhang, N. Li[*], S. Chen., X. Bian., M.A. Farag., Y. Ge., J. Xiao, **J.L. Wu**[*]. Carboxyl-containing compounds in food: Category, functions, and analysis with chemical derivatization-based LC-MS. *Trends Anal Chem.* **2022**, *157*, 116818. (2024 Impact factor: 12.0, **Q1 top**, 2/111).
28. 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. (2024 Impact factor: 11.3, **Q1 top**, 19/374).
29. S. Gong, X. Hu, S. Chen, B. Sun, **J.L. Wu**[*], N Li[*]. Dual roles of drug or its metabolite protein conjugate (DMPC): cutting-edge strategy of drug discovery using shotgun proteomics. *Med Res Rev*. **2022**, *42*, 1704. (2024 Impact factor: 11.6, **Q1 top**, 1/72).
30. 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. (2024 Impact factor 9.1 **Q1 top**, 9/181).
31. 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. (2024 Impact factor: 6.2, **Q1 top**, 7/94). Front Cover
32. Q. Zhu, Y. Ge, N. An, N. Li, Y. Xiao, G. Huang, L. Zhang, Y. Feng [*], **J.L. Wu**[*]. Profiling of Branched Fatty Acid Esters of Hydroxy Fatty Acids in Teas and Their Potential Sources in Fermented Tea. *J Agric Food Chem.* **2022**, *70*, 5369. (2024 Impact factor: 6.2, **Q1 top**, 7/94). Supplementary Cover
33. L. Zhang, **J.L. Wu**[*], P. Xu, S. Guo, T. Zhou, N. Li[*]. Soy protein degradation drives diversity of amino-containing compounds via Bacillus subtilis natto fermentation.

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35. X. Bian, X. Xie, Y. Zhao, W. Miao, X. Chen, Y. Xiao, N. Li*, **J.L. Wu***. Dynamic Changes of Phenolic Acids and Antioxidant Activity of Citri Reticulatae Pericarpium during Aging Processes. *Food Chem.* **2022**, *373*, 131399. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
36. S. Chen, Y. Fu, X. Bian, M. Zhao, Y. Zuo, Y. Ge, Y. Xiao, J. Xiao, N. Li*, **J.L. Wu***. Investigation and dynamic profiling of oligopeptides, free amino acids and derivatives during Pu-erh tea fermentation by ultra-high performance liquid chromatography tandem mass spectrometry. *Food Chem.* **2022**, *371*, 131176. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
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38. P. Zheng, X. Bian, Y. Zhai, C. Li, C. Hao, H. Huang, W. Luo, Z. Huang, C. Liao, M. Xue, N. Li, M.Q. Guo, B. Sun*, **J.L. Wu***. Metabolomics reveals a correlation between hydroxyeicosatetraenoic acids (HETEs) and allergic asthma: evidence from three years' immunotherapy. *Pediatr Allergy Immunol.* **2021**, *32*, 1654. (2024 Impact factor: 4.5, **Q1 top**, 9/191). Editor´s Choice Article
39. Y. Ge, N. Li, Y. Fu, X. Yu, Y. Xiao, Z. Tang, J. Xiao, **J.L. Wu***, Z.H. Jiang*. Deciphering superior quality of Pu-erh tea from thousands of years' old trees based on chemical profile. *Food Chem.* **2021**, *358*, 129602. (2024 Impact factor: 9.8, **Q1 top**, 4/112).
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41. 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. (2024 Impact factor: 3.5, Q2).
42. Y. Luo, F. Gao, R. Chang, X. Zhang, J. Zhong, J. Wen*, **J.L. Wu***, T. Zhou*. Metabolomics based comprehensive investigation of Gardeniae Fructus induced hepatotoxicity. *Food Chem Toxicol.* **2021**, *153*, 112250. (2024 Impact factor: 3.5,

Q2).

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44. P. Zheng, G. Yan, Y. Zhang, H. Huang, W. Luo, M. Xue, N. Li, **J.L. Wu**[*], B. Sun[*]. Metabolomics reveals process of allergic rhinitis patients with 2 single-and double-species mite subcutaneous immunotherapy. *Metabolites* **2021**, *11*, 613. (2024 Impact factor: 3.7, Q2).
45. 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 Duration of Effects on Target Organ. *Chem Res Toxicol.* **2021**, *34*, 2309. (2024 Impact factor: 3.8, Q2).
46. K. Li[#], **J.L. Wu**[#], 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. ([#]These authors contributed equally to this work). (2024 Impact factor: 25.9, **Q1 top**, 7/204).
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types in China. *Biosci Trends* **2020**, *14*, 290. (2024 Impact factor: 5.0, **Q1 Top** 9/107).

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55. L. Xu, L. Wang, L. Zhou, R.G. Dorfman, Y. Pan, D. Tang, Y. Wang, Y. Yin, C. Jiang, X.Zou, **J.L. Wu***, M. Zhang*. The SIRT2/cMYC Pathway Inhibits Peroxidation-Related Apoptosis In Cholangiocarcinoma Through Metabolic Reprogramming. *Neoplasia* **2019**, *21*, 429-441. (2024 Impact factor: 7.7, Q1).
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