

# 伍建林 博士



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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、食品和药物功能成分发现和机制研究、药食同源中药复杂体系全成分解析关键技术及产品开发等。

## 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。

## 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)副教授，博士生导师；兼任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、中国抗癌协会肿瘤代谢专业委员会委员、*J Pharm Anal, J Anal Testing* 和色谱杂志青年编委等学术职务。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 (Problem Oriented Multi-omics Integrated analysis technology based on Mass Spectrometry, POMIMS)，解决了复杂体系全成分多维度分析、微量和痕量成分定性定量及效应物质精准动态定位的难题，并广泛应用在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分析和产品综合开发等方面。截至目前，一共发表学术论文 136 篇，SCI 论文 130 篇，总影响因子超过 1000 分。其中，2016 年以来以第一和通讯作者(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*. 等杂志上发表发表 SCI 论文 108 篇。影响因子大于 10 分的 21 篇，大于 20 的 6 篇，大于 40 的 1 篇，前 1% 高被引论文 4 篇。授权国际专利 5 项，国内专利 5 项。课题组已毕业的 9 个研究生 (5 个博士、4 个硕士) 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。

## 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 日本新潟大学工学部 天然药物化学专业，硕士

## 工作经历

2018.07-至今 澳门科技大学中药质量研究国家重点实验室 副教授，博士生导师

2011.11-2018.06 澳门科技大学中药质量研究国家重点实验室 助理教授，博士生导师

2010.04-2011.11 香港大学李嘉诚医学院病理系，博士后研究员

2004.10-2005.10 香港浸会大学化学系，研究助理

## 学术论文

一共发表学术论文共 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% 高被引论文)
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 (编辑推荐文章).
11. A. Serag, M.A. Salem, S. Gong, **J.L. Wu\*** M.A. Farag\*. Decoding Metabolic Reprogramming in Plants under Pathogen Attacks, a Comprehensive Review of Emerging Metabolomics Technologies to Maximize Their Applications. *Metabolites* **2023**, 13, 424. (Impact factor: 4.1).
12. 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. (Impact factor: 8.8, Q1 top, 9/142).
13. 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. (Impact factor: 8.8, Q1 top, 9/142).
14. 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. (Impact factor: 13.1, Q1 top, 1/86).
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).
16. 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, 1704-1734. (Impact factor: 13.3 Q1 top, 8/277).
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)
19. 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. (Impact factor: 6.1, Q1 top, 6/59). Supplementary Cover (封面文章)
20. 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. *Food Chem.* **2022**, 388, 133034. (Impact factor: 8.8, Q1 top, 9/142).

21. X. Bian, W. Miao, M. Zhao, Y. Zhao, Y. Xiao, N. Li\*, **J.L. Wu\***. Microbiota Drive Insoluble Polysaccharides Utilization via Microbiome-Metabolome Interplay during Pu-erh Tea Fermentation. *Food Chem.* **2022**, 377, 132007. (Impact factor: 8.8, Q1 top, 9/142).
22. 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. (Impact factor: 8.8, Q1 top, 9/142).
23. 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. (Impact factor: 8.8, Q1 top, 9/142).
24. L. Zhang, **J.L. Wu\***. Less is more: Vital roles of bioactive equivalency in assessing food Quality. *eFood* **2022**, 3, e49.
25. M. Liu, H. Huang, X. Bian, Z. Zheng, N. Li, B. Sun\*, **J.L. Wu\***. A prospective cohort study of the presence of SARS-CoV-2 in clinical samples from multiple bodily sites: implications for transmission routes of COVID-19. *J Bio-X Res.* **2022**, 5, 27.
26. 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. (Impact factor: 4.4, Q1 top, 13/130). Editor's Choice Article (编辑推荐文章).
27. 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. (Impact factor: 8.8, Q1 top, 9/142).
28. S. Chen, G. Huang, W. Liao, S. Gong, J.B. Xiao, J. Bai, W.L.W. Hsiao, N. Li\*, **J.L. Wu\***. Discovery of the bioactive peptides secreted by Bifidobacterium using integrated MCX coupled with LC-MS and feature-based molecular networking. *Food Chem.* **2021**, 347, 129008. (Impact factor: 8.8, Q1 top, 9/142).
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).
30. 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. (Impact factor: 4.3, Q1 top, 15/94).
31. X. Hu, X. Bian, W.Y. Gu, B. Sun, X. Gao, **J.L. Wu\***, N. Li\*. Stand out from matrix: Ultra-sensitive LC-MS/MS method for determination of histamine in complex biological samples using derivatization and solid phase extraction. *Talanta* **2021**, 225, 122056. (Impact factor: 6.1, Q1, 9/86).
32. 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. (Impact factor: 4.1)
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

- Duration of Effects on Target Organ. *Chem Res Toxicol.* **2021**, 34, 2309. (Impact factor: 4.1).
34. 李健民, 卓越, 张毅达, 李娜, 伍建林\*. 尺寸排阻-反相液相色谱-质谱联用技术在大鼠肾脏翻译后修饰蛋白质鉴定中的应用. *色谱* **2021**, 39, 87-95.
35. M. Liu, N. Li\*, Y. Zhang, Z. Zheng, Y. Zhuo, B. Sun, L.P. Bai, M. Zhang, M.Q. Guo, **J.L. Wu\***. Characterization of Covalent Protein Modification by Triclosan in vivo and in vitro via Three-Dimensional Liquid Chromatography-Mass Spectrometry: New Insight into Its Adverse Effects. *Environ Int.* **2020**, 136, 105423. (Impact factor: 11.8, Q1 top, 17/274).
36. M.Z. Zhu, N. Li, F. Zhou, J. Ouyang, D.M. Lu, W. Xu, J. Li, H.Y. Lin, Z. Zhang, J.B. Xiao, K.B. Wang, J.A. Huang, Z.H. Liu\*, **J.L. Wu\***. Microbial bioconversion of the chemical components in dark tea. *Food Chem.* **2020**, 312, 126043. (Impact factor: 8.8, Q1 top, 9/142). Top 1% Highly Cited Paper (前 1% 高被引论文)
37. X. Bian, Y. Qian, B. Tan, K. Li, X. Hong, C.C. Wong, L. Fu, J. Zhang, N. Li\*, **J.L. Wu\***. In-depth Mapping Carboxylic Acid Metabolome Reveals the Potential Biomarkers in Colorectal Cancer through Characteristic Fragment Ions and Metabolic Flux. *Anal Chim Acta* **2020**, 1128, 62-71. (Impact factor: 6.911, Q1, 10/87).
38. L. Li#, **J.L. Wu#**, X. Bian, G. Wu, P. Zheng, M. Xue, B. Sun. Analysis of serum polyunsaturated fatty acid metabolites in allergic bronchopulmonary aspergillosis. *Respir Res.* **2020**, 21, 205. (#These authors contributed equally to this work). (Impact factor: 5.8, Q1, 15/65).
39. M. Xue, P. Zheng, X. Bian, Z. Huang, H. Huang, Y. Zeng, H. Hu, Xiaoqing Liu, L. Zhou, B. Sun\*, **J.L. Wu\***, N. Zhong\*. Exploration and correlation analysis of changes in Krebs von den Lungen-6 levels in COVID-19 patients with different types in China. *Biosci Trends.* **2020**, 14, 290-6. (Impact factor: 5.5, Q1, 13/92).
40. **J.L. Wu**, F. Ji, H. Zhang, C. Hu, M.H. Wong, D. Hu, Z. Cai\*. Formation of dioxins from triclosan with active chlorine: A potential risk assessment. *J Hazard Mater.* **2019**, 367,128-136. (Impact factor: 13.6, Q1 top, 10/274).
41. M. Zhao\*, X. Su, B. Nian, L. Chen, D. Zhang, S. Duan, L. Wang, X. Shi, B. Jiang, W. Jiang, C. Lv, D. Wang, Y. Shi, Y. Xiao, **J.L. Wu\***, Y. Pan\*, Y. Ma\*. Integrated meta-omics approaches to understand the microbiome of spontaneous fermentation of traditional Chinese pu-erh tea. *mSystems* **2019**, 4, e00680-19. (Impact factor: 7.324, Q1, 24/135).
42. M. Zhang, Y. Pan, D. Tang, R.G. Dorfman, L. Xu, Q. Zhou, L. Zhou, Y. Wang, Y. Li, Y. Yin, B. Kong, H. Friess, S. Zhao, **J.L. Wu\***, L. Wang\*, X. Zou\*. Low levels of pyruvate induced by a positive feedback loop protects cholangiocarcinoma cells from apoptosis. *Cell Commun Signal.* **2019**, 17, 23. (Impact factor: 8.4, Q1, 34/191).
43. 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. (Impact factor: 4.8).
44. Y. Ge, X. Bian, B. Sun, M. Zhao, Y. Ma, Y.P. Tang, N. Li\*, **J.L. Wu\***. Dynamic profiling of phenolic acids during Pu-erh tea fermentation using derivatization LC-MS approach. *J Agric Food Chem.* **2019**, 67, 4568-4577. (Impact factor: 6.1, Q1 top, 6/59).
45. X. Yan, Y. Zhuo, X. Bian, J. Li, Y. Zhang, L. Ma, G. Lu, M.Q. Guo, **J.L. Wu\***, N. Li\*. Integrated Proteomics, Biological Functional Assessments, and Metabolomics Reveal

- Toosendanin-Induced Hepatic Energy Metabolic Disorders. *Chem Res Toxicol.* **2019**, *32*, 668-680. (Impact factor: 4.1).
46. C. Luo, X. Bian, Q. Zhang, Z. Xia, B. Liu, Q. Chen, C. Ke, **J.L. Wu\***, Y. Zhao\* Shengui Sansheng San Ameliorates Cerebral Energy Deficiency Via Citrate Cycle after Ischemic Stroke. *Front Pharmacol.* **2019**, *10*, 386. (Impact factor: 5.6, Q1, 50/279).
  47. Y. Zhang, X. Bian, J. Yang, H. Wu\*, **J.L. Wu\***, N. Li\*. Metabolomics of Clinical Poisoning by Aconitum Alkaloids using derivatization LC-MS. *Front Pharmacol.* **2019** *10*, 275. (Impact factor: 5.6, Q1, 50/279).
  48. C.X. Cai, X. Bian, X.Q. Liu, J.X. Wang, H.S. Hu, S.G. Zheng, B.Q. Sun\*, **J.L. Wu\***. Eicosanoids metabolized through LOX distinguish Asthma-COPD Overlap from COPD by metabolomics study. *Int J Chron Obstruct Pulmon Dis.* **2019**, *14*, 1769-78. (Impact factor: 2.8).
  49. G.L. Chen, M.X. Fan, **J.L. Wu**, N. Li, M.Q. Guo. Antioxidant and anti-inflammatory properties of flavonoids from lotus plumule. *Food Chem.* **2019**, *277*, 706-712. (Impact factor: 8.8, Q1 top, 9/142). Top 1% Highly Cited Paper (前1%高被引论文)
  50. X. Bian, N. Li\*, B. Tan, B. Sun, M. Q. Guo, G. Huang, L. Fu, W.L.W. Hsiao, L. Liu\*, **J.L. Wu\***. Polarity-tuning Derivatization-LC-MS Approach for Probing Global Carboxyl-containing Metabolites in Colorectal Cancer. *Anal Chem.* **2018**, *90*, 11210-5. (Impact factor: 7.4, Q1 top, 7/86).
  51. W.Y. Gu, M.X. Liu, B.Q Sun\*, M.Q. Guo, **J.L. Wu\***, N. Li\*. Profiling of polyunsaturated fatty acids using off-line and on-line solid phase extraction-nano-liquid chromatography-quadrupole-time-of-flight mass spectrometry in human serum. *J Chromatogr A* **2018**, *1537*, 141-6. (Impact factor: 4.1).
  52. Y. Zhuo#, **J.L. Wu**#, X. Yan, M.Q. Guo, N. Liu, H. Zhou, L. Liu, N. Li. Strategy for Hepatotoxicity Prediction Induced by Drug Reactive Metabolites Using Human Liver Microsome and Online 2D-Nano-LC-MS Analysis. *Anal Chem.* **2017**, *89*, 13167-75. (#These authors contributed equally to this work). (Impact factor: 7.4, Q1 top, 7/86).
  53. X. Bian, B. Sun, P. Zheng, N. Li\*, **J.L. Wu\***. Derivatization enhanced separation and sensitivity of long chain-free fatty acids: application to asthma using targeted and non-targeted liquid chromatography-mass spectrometry approach. *Anal Chim Acta* **2017**, *989*, 59-70. (Impact factor: 6.911, Q1, 10/87).
  54. M.Z. Zhu, Na Li, Y.T. Wang, N. Liu, M.Q. Guo, H. Zhou, L. Liu\*, **J.L. Wu\***. Acid/Salt/pH Gradient Improved Resolution and Sensitivity in Proteomics Study Using 2D SCX-RP LC-MS. *J Proteome Res.* **2017**, *16*, 3470-5. (Impact factor: 5.37, Q1, 16/79).
  55. M. Zhu, N. Li, M. Zhao, W Yu, **J.L. Wu\***. Metabolomic profiling delineate taste qualities of tea leaf pubescence. *Food Res Int.* **2017**, *94*, 36-44. (Impact factor: 7.7, Q1 top, 13/143).
  56. Y. He, W. Liu, L. Chen, G. Lin, Q. Xiao, C. Gao, **J.L. Wu\***, Z. Lin\*. Facile synthesis of Ti<sup>4+</sup>-immobilized affinity silica nanoparticles for the highly selective enrichment of intact phosphoproteins. *J Sep Sci.* **2017**, *40*, 1516-23. (Impact factor: 3.1).
  57. L.Y Zhang#, **J.L. Wu**#, S.S. Dong#, Y.H. Zhu, H.B. Qiu, V.H.F. Lee, Y.R. Qin, Y. Li, J. Chen, H.B. Liu, J. Bi, S. Ma, X.Y. Guan, L. Fu. PSCA acts as a tumor suppressor by facilitating the nuclear translocation of RB1CC1 in esophageal squamous cell carcinoma. *Carcinogenesis* **2016**, *37*, 320-32. (#These authors contributed equally to this work). (Impact factor: 4.7).

58. X. Chai, L. Wen, Y. Song, X. He, J. Yue, **J.L. Wu**, X. Chen, Z. Cai, Z. Qi. DEHP exposure elevated cardiovascular risk in obese mice by disturbing the arachidonic acid metabolism of gut microbiota. *Sci Total Environ.* **2023**, 875, 162615. (Impact factor: 10.237, Q1 top, 26/279).
59. C. Wong, **J.L. Wu**, F. Ji, W.Kang, X. Bian, H. Chen, L. Chan, S. Luk, S. Tong, J. Xu, Q. Zhou, D. Liu, H. Su, H. Gou, A. Cheung, K. To, Z. Cai, J. Shay, J. Yu. The cholesterol uptake regulator PCSK9 promotes and is a therapeutic target in APC/KRAS-mutant colorectal cancer. *Nat Commun.* **2022**, 13, 3971. (Impact factor: 16.6, Q1 top, 6/73)
60. J. Huang, D. Liu, Y. Wang, L. Liu, J. Li, J. Yuan, Z. Jiang, Z. Jiang, W.W. Hsiao, H. Liu, I. Khan, Y. Xie, **J.L. Wu**, Y. Xie, Y. Zhang, Y. Fu, J. Liao, W. Wang, H. Lai, A. Shi, J. Cai, L. Luo, R. Li, X. Yao, X. Fan, Q. Wu, Z. Liu, P. Yan, J. Lu, M. Yang, L. Wang, Y. Cao, H. Wei, E.L. Leung. Ginseng polysaccharides alter the gut microbiota and kynurenine/tryptophan ratio, potentiating the antitumour effect of antiprogrammed cell death 1/programmed cell death ligand 1 (anti-PD-1/PD-L1) immunotherapy. *Gut* **2022**, 71, 734-745. (Impact factor: 24.5, Q1 top, 5/93). Top 1% Highly Cited Paper (前 1% 高被引论文)
61. Ting Li Juan Liu, Yuxin Zhuang, **J.L. Wu**, Qiang Wu, Meixian Liu, Yue Zhao, Zhongqiu Liu, Caiyan Wang, Linlin Lu, Yingjiao Meng, Kawai Lei, Xiaojuan Li, Qibiao Wu, Elaine Lai-Han Leung, Zhengyang Guo, Liang Liu. IKK $\beta$  mediates homeostatic function in inflammation via competitively phosphorylating AMPK and I $\kappa$ B $\alpha$ . *Acta Pharm Sin B* **2022**, 12, 651. (Impact factor: 14.5, Q1 top, 5/277).
62. Y. Shi, H. Pan, **J.L. Wu**, Q. Zou, X. Xie, H. Li, H. Zhou, X. Bian, W. Leng, C. Wang, Y. Wang, P. Qiu, F. Wu, Y. Fang, L. Liu. The Correlation Between Decreased Ornithine Level and Alleviation of Rheumatoid Arthritis Patients Assessed by a Randomized, Placebo-Controlled, Double-Blind Clinical Trial of Sinomenine. *Engineering* **2022**, 16, 93. (Impact factor: 12.8, Q1 top, 2/90).
63. S. Fakhri, M. Tomas, E. Capanoglu, Y. Hussain, F. Abbaszadeh, B. Lu, X. Hu, J.L. Wu, L. Zou, A. Smeriglio, J. Simal-Gandara, H. Cao, J. Xiao, H. Khan. Antioxidant and anticancer potentials of edible flowers: where do we stand? *Crit Rev Food Sci Nutr.* **2021**, 62, 8589. (Impact factor: 10.2, Q1 top, 2/88).
64. W. Liao, I. Khan, G. Huang, S. Chen, L. Liu, W.K. Leong, X.A. Li, **J.L. Wu**, W.L.W. Hsiao\*. *Bifidobacterium animalis*: the missing link for the cancer-preventive effect of *Gynostemma pentaphyllum*. *Gut Microbes* **2021**, 13, 1847629. (Impact factor: 12.2, Q1 top, 11/135).
65. C. C. Wong, J. Xu, X. Bian, **J.L. Wu**, W. Kang, Y. Qian, W. Li, H. Chen, H. Gou, D. Liu, S. T. Y. Luk, Q. Zhou, F. Ji, L.S. Chan, S. Shirasawa, J.J. Sung, J. Yu. In Colorectal Cancer Cells with Mutant KRAS, SLC25A22-Mediated Glutaminolysis Reduces DNA Demethylation to Increase WNT Signaling, Stemness, and Drug Resistance. *Gastroenterology* **2020**, 159, 2163. (Impact factor: 29.4, Q1 top, 3/93).
66. R. Zhao, O.O. Coker, **J.L. Wu**, Y. Zhou, L. Zhao, G. Nakatsu, X. Bian, H. Wei, A.W. Chan, J.J. Sung, F.K. Chan, E. El-Omar, J. Yu. Aspirin Reduces Colorectal Tumor Development in Mice and Gut Microbes Reduce Its Bioavailability and Chemopreventive Effects. *Gastroenterology* **2020**, 159, 969. (Impact factor: 29.4, Q1 top, 3/93).
67. H.H. Choi, S. Zou, **J.L. Wu**, H. Wang, L. Phan, K. Li, P. Zhang, D. Chen, Q. Liu, B. Qin, TAT Nguyen, S.J. Yeung, L. Fang, M.H. Lee. EGF Relays Signals to COP1 and Facilitates FOXO4 Degradation to Promote Tumorigenesis. *Adv Sci.* **2020**, 7, 2000681. (Impact factor: 15.1, Q1 top, 24/342).

68. W. Xu, X. Zhang, **J.L. Wu**, L. Fu, D. Liu, N. Wong, J. Yu. O-GlcNAc transferase promotes fatty liver-associated liver cancer through inducing palmitic acid and activating endoplasmic reticulum stress. *J Hepatol.* **2017**, *67*, 310-20. (Impact factor: 30.083, Q1 top, 4/93).
69. L. Fu, Y.R. Qin, X.Y. Ming, X. Zuo, Y.W. Diao, L.Y. Zhang, J. Ai, B.L. Liu, T.X. Huang, T.T. Cao, B.B. Tan, D. Xiang, C.M. Zeng, J. Gong, Q.C. Zhang, S.S. Dong, J. Chen, H. Liu, **J.L. Wu**, R.Z. Qi, D. Xie, L.D. Wang, X.Y. Guan. RNA editing of SLC22A3 drives early tumor invasion and metastasis in familial esophageal cancer. *PNAS* **2017**, *114*, E4631-40. (Impact factor: 11.1, Q1, 8/73).
70. C.C. Wong, Y. Qian, X. Li, J. Xu, W. Kang, J.H. Tong, K.F. To, Y. Jin, W. Li, H. Chen, M.Y.Y. Go, **J.L. Wu**, K.W. Cheng, S.S.M. Ng, J.J.Y. Sung, Z. Cai, J. Yu. SLC25A22 Promotes Proliferation and Survival of Colorectal Cancer Cells with KRAS Mutations and Xenograft Tumor Progression in Mice via Intracellular Synthesis of Aspartate. *Gastroenterology* **2016**, *151*, 945. (Impact factor: 29.4, Q1 top, 3/93).

### 书籍章节

1. 中医方证代谢组学研究进展 (2020年卷), 科学出版社, ISBN号: 978-7-03-069354-9, 2021.7, 编委;
2. 过敏趣史——从未知到反击, 中国协和医科大学出版社, ISBN号: 978-7-5679-0775-1, 副主编。

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1. Method and Kit for Detecting Carboxyl-Containing Compound, **WU, Jian-Lin**; LI, Na; LIU, Liang and BIAN, Xiqing; 澳大利亚专利; 专利号: 2018100592
2. Method of determining histamine in a sample and kit for doing the same, **WU, Jian-Lin**; LI, Na; LIU, Liang; GU, Wan-Yi and BIAN, Xiqing; 澳大利亚专利; 专利号: 2017100545
3. Microfluidic perfusion device, system and fabrication method thereof, LUO, Guo-An; MA, Li-Dong; WANG, Yi-Tong; WANG, Jing-Rong and **WU, Jian-Lin**; 澳大利亚专利; 专利号: 2018100361
4. Methods for prediction of hepatotoxicity induced by compound reactive metabolites reactive metabolites, LI, Na; **WU, Jian-Lin**; LIU, Liang; ZHUO, Yue and YAN, Xiaojing; 澳大利亚专利; 专利号: 2018100121
5. Application of an alkaloid derived from a Chinese herbal for treatment of cancer by inhibiting cholesterol synthesis and fatty acid oxidation, Lai-Han LEUNG, Macau (CN); Liang LIU, Macau (CN); Xing-Xing FAN, Macau (CN); **Jian-Lin WU**, Macau (CN); 美国专利; 专利号: US 2015/0307508 A1

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