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教学科目：分析化学（BP12203/ BPAZ0012）；分析化学实验（BP12204）；基础化学实验（BP12103）；ME1012 中药药代动力学；ME1002 仪器分析；DCMSZ02 中药专题导读；药物分析（BPAZ0024）

研究方向：

- 1) 基于现代技术的中药质量评价研究
- 2) 以单碱基分辨率解析 RNA/DNA 转录后修饰以及相关生物标记物研究
- 3) 纳米材料应用于中药活性成分筛选及癌症治疗

简介：张伟博士，副教授，2008 年获得中国药科大学哲学博士学位。2008-2012 于美国耶鲁大学药理系从事博士后研究工作。2012 年 8 月受聘于澳门科技大学中药质量研究国家重点实验室任助理教授，于 2017 年 8 月晋升为副教授，2024 年晋升为教授。张教授的主要研究兴趣和领域包括：1) 基于现代技术的中药质量评价研究；2) 以单碱基分辨率解析 RNA/DNA 转录后修饰以及相关生物标记物研究；3) 纳米材料应用于中药活性成分筛选及癌症治疗。已在 Analytical Chemistry, Environment International, Journal of Pharmaceutical Analysis, Food Chemistry, Advanced Functional Materials 和 Science Translational Medicine 等国际期刊上发表了 110 多篇研究论文，H 指数为 23 (Web of Science, 2023)。迄今，张教授已获得 7 项授权专利（含 6 项国际专利和 1 项中国专利）。自 2014 年以来，张教授获得了中银学术研究优秀奖（2014，2023）、中珠医疗生命科学科研一等奖（2016，2018）和中珠医疗生命科学科研二等奖（2017）等奖项。作为负责人张教授获得了 10 多项研究资助，包括澳门科学技术发展

基金 (FDCT) 重点研发项目 (课题: 四种中草药质量控制的整合多组学技术和质量标准理论, 第三个子项目负责人)、FDCT-NSFC 和 FDCT-GDST 联合基金。此外, 他还参与了国家自然科学基金、国家重大研究仪器研究专项基金、美国国立卫生研究院 (NIH) 资助和天然药物国家重点实验室开放项目等多项研究项目。

学历:

2003年7月-2008年7月 中国药科大学药物分析专业硕博连读攻读博士学位

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学术成果

部分发表的SCI期刊论文: (*Corresponding author)

1. R. Wang, G. Huang, S. Li, H. Huang, G. Zhu, L. Wang, J. Yang, S. Yang*, Z. Jiang*, **W. Zhang***. Blueberry extract for the treatment of ischaemic stroke through regulating the gut microbiota and kynurenine metabolism. *Phytotherapy Research*, 38(2024) 4792-4814. (IF 2023: 6.1, Q1)
2. Z. Li*, Q. Cao, H. Chen, J. Yang, Z. Wang, X. Qu, Y. Yao, Z. Zhou, **W. Zhang**, Dual Phytochemical/Activity-Guided Optimal Preparation and Bioactive Material Basis of *Orthosiphon stamineus* Benth. (Shen Tea) against Nonalcoholic Fatty Liver Disease, *Journal of Agricultural and Food Chemistry*, 72(2024) 18561-72. (IF 2023: 5.7, Q1)
3. J. Liu, T. Xu, J. Ding, H. Wen, J. Meng, Q. Liu, X. Liu, **W. Zhang**, G.-Y. Zhu, Z.-H. Jiang*, J. Gao*, L.-P. Bai*, Discovery of anti-melanogenic components in persimmon (*Diospyros kaki*) leaf using LC-MS/MS-MN, AlphaFold2-enabled virtual screening and biological validation, *Food Chemistry*, 455(2024) 139814. (IF 2023: 8.5, Q1)
4. L. Fu, C.-C. Wang, W. Tian, Z. Liu, M.-Y. Bao, J. Liu, **W. Zhang**, L.-P. Bai*, Z.-H.

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 8. L. Zeng, C. Zhang, M. Yang, J. Sun, J. Lu, H. Zhang, J. Qin, W. Zhang, Z. Jiang*, Unveiling the Diversity and Modifications of Short Peptides in *Buthus martensii* Scorpion Venom through Liquid Chromatography-High Resolution Mass Spectrometry, *Toxins*, 16(2024) 155. (IF 2023: 3.9, Q1)
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 13. Q.B. Liu, J. Liu, J.G. Lu, M.R. Yang, **W. Zhang**, W.J. Li, Z.M. Qian, Z.H. Jiang*, L.P. Bai*, Quantitative (1)H NMR with global spectral deconvolution approach for quality assessment of natural and cultured *Cordyceps sinensis*, *J Pharm Biomed Anal*, 235(2023) 115603. (IF 2022: 3.4, Q1)
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学术书籍

Wing Lam , Scott Bussom , Zaoli Jiang , Wei Zhang , Fulan Guan , Shwu-Huey Liu , and Yung-Chi Cheng , “Inflammation, Oxidative Stress and Cancer: Dietary Approaches for Cancer Prevention” CRC press, INC., (ISBN 9781466503700), Chapter Number 29, ” PHY906, a cancer adjuvant therapy, differentially affects

inflammation of different tissues”

承担主要科研项目

1. 2024-2027 The development and application of an innovative platform for the analysis of mitochondrial mRNA modifications based on the magnetic carbon-based nanomaterials and chemical labeling, Macao Science and Technology Development Fund (project number 0054/2024/RIA1), MOP 1,733,600.00, PI
2. 2023-2026 Development of Next-Generation Anti-Aging Products Based on Synergistic Enhancement Techniques with Edible TCMs, FDCT Key R & D research project (project number 0001/2023/AKP, PI: Professor JIANG Zhi-Hong), MOP 11,916,000.00, Co-PI. (PI of the third subproject on “Development of NMN delivery system”)
3. 2022-2024 Research on Quality Evaluation and Product Development of Cultivated Cordyceps Sinensis , FDCT-GDST Joint Fund (project number 0040/2021/AGJ), MOP 865,000, PI.
4. 2020-2023 Study on multi-dimensional quality control of six Chinese herbal medicines by combining artificial intelligence and multi-omics technologies, FDCT Key R & D research project (project number 0023/2019/AKP, PI: Professor JIANG Zhi-Hong), MOP 8,000,000.00, Co-PI. (PI of the third subproject on “Integrated multi-omics technology and quality marker theory for quality control of four Chinese herbal medicines”)
5. 2019-2022 Synergistic antitumor activity of 5-fluorouracil in colorectal cancer based on the targeted-regulation of nucleotide metabolism, Macao Science and Technology Development Fund (project number 0077/2019/A2), MOP 1,434,400.00, PI
6. 2018-2021 Integrative patterns of efficient components recognition of Aloe based on Wnt/ β -Catenin Signaling Pathway, Macao Science and Technology Development Fund (project number 0052/2018/A2), MOP 1,112,100.00, PI
7. 2018-2021 Reduction of CO₂ into Energy Products through Electro- and Photo-Catalysts Using Nanoporous Functional Materials, FDCT-MOST Joint

- Fund(FDCT project number 002/2017/ AFJ) MOP 1,772,100, PI
8. 2016-2018 Using nucleotide metabolomics to investigate the impacts of tonic Chinese Herbs on DNA damage and Repair, Macao Science and Technology Development Fund (project number 006/2015/A1), MOP 2,820,000, PI
 9. 2013-2015 The Profiling of Bioactive Compounds of Phyllanthus urinaria and Mechanism of Toxicity Reducing and Efficacy enhancing in Combination with Nucleoside Analogues, Macao Science and Technology Development Fund (project number 091/2012/A3) MOP 1,963,000, PI
 10. 2013-2015 Metabolism and pharmacokinetics of Phyllanthus urinaria in the mouse, open project of Guangxi Key Laboratory of Traditional Chinese Medicine Quality Standards (project number Guizhongzhongkai201301), PI
 11. 2012-2014 Metabolomic study of Huang Qin decoction to decrease chemotherapy toxicities, open project of the State Key Laboratory of Natural Medicines (project number SKLNMKF201220), RMB 40,000, PI
 12. 2013-2013 In-depth study on the metabolism process of flavonoids in Huangqin decoction, Macao Foundation (#0272), MOP 98,000, Principal Investigator, PI
 13. 2014-2016 Huangqin Decoction Attenuates CPT-11-Induced Gastrointestinal Toxicity by Regulating Brain-gut axis of tryptophan metabolism National Natural Science Foundation of China(project number 81307949) RMB 230,000, Co-I
 14. 2019-2023 Living single-cell analyzer based on light beam control and manipulation, Special Fund for Research on National Major Research Instrument (project number 61827819), RMB 7,769,600, Co-I

学术机构及社会任职

世界中联中医药免疫专业委员会常务理事

澳门化验师公会会员

澳门科学技术协进会会员

学术奖励

1. Bank of China (BOC, Macau Branch) Excellent Research Award 2014 中银(澳门) 学术研究优秀奖 2014
2. Zhongzhu Awards for Life Science Recognizing First Prize in Research 中珠 医疗生命科学科研一等奖 2016
3. Zhongzhu Awards for Life Science Recognizing second Prize in Research 中 珠医疗生命科学科研二等奖 2017
4. Zhongzhu Awards for Life Science Recognizing First Prize in Research 中珠 医疗生命科学科研一等奖 2018
5. Bank of China (BOC, Macau Branch) Excellent Research Award 2023 中银(澳门) 学术研究优秀奖 2023