Jiang Zhi Hong

Position:	Chair Professor Vice President, Macau University of Science and Technology Director, State Key Laboratory of Mechanism and Quality of Chinese Medicine Director, Macau Institute for Applied Research in Medicine and Health
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Professor Jiang obtained the Bachelor and Master degrees from China Pharmaceutical University in 1987 and 1990, respectively. He earned his PhD degree from Nagasaki University, Japan in 1998. After postdoctoral training in Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, USA from 1999-2001, he joined School of Chinese Medicine, Hong Kong Baptist University in 2001 as an assistant professor, and was promoted to be an associate professor in 2005 and full professor in 2008. He was Associate Director of Teaching Division and Director of Master Program of Pharmaceutical Sciences in Chinese Medicine. In July 2011, he became the Dean of the Macau Institute of Pharmaceutical and Health Applications, and Deputy Director of State Key Laboratory for Quality Research in Chinese Medicines (Macau University of Science and Technology). In March 2016, he was appointed as the Vice President of Macau University of Science and Technology. Since March 2022, he has also served as the Director of State Key Laboratory of Mechanism and Quality of Chinese Medicine.

Professor Jiang is an internationally-renowned scientist in natural products chemistry. His

research areas include natural medicinal chemistry, metabolomics, Chinese medicine quality standards, and bio-organic chemistry. In order to advance the modernization of Chinese medicine, Professor Jiang has been dedicated to using modern spectroscopic and chromatographic, chemical biology, and metabolomic research techniques to elucidate the active components and mechanisms of action of Chinese medicine, achieving remarkable results. To date, Professor Jiang has published over 330 SCI papers in international academic journals such as Nucleic Acids Research, Nature Communications, JACS, Analytical Chemistry, Organic Letters, and Molecular Therapy-Nucleic Acids, with more than 13,000 citations and an H-index of 67 (Google Scholar, 2024).

Prof. Jiang was awarded as the Young Distinguished Scholars by National Natural Science Foundation of China (Overseas) in 2007, and was appointed as Chair Professor of the Changjiang Scholars Programme by the Ministry of Education of China in 2014. In 2022, Prof. Jiang was elected as a member of Chinese Pharmacopoeia Commission. His research grants were financially supported by the Macau Science and Technology Development Fund (FDCT), Hong Kong Research Grants Council, Department of Health of HKSAR, National Natural Science Foundation of China and National Institutes of Health (NIH) of U.S.A. In addition, Prof. Jiang also serves in multiple social service positions, including Vice President of National Technical Committee of Standardization of Traditional Chinese Medicine, President of the Cross-Strait Scientific Collaboration Center for Chinese Medicine, Vice President of the Macao Science and Technology Council, Committee Member of Science and Technology Committee and Economic Committee of Macao SAR Government, and Vice Chairman of Macao Higher Education Development Promotion Association.

Teaching and Research Areas

Teaching subjects: Advanced Natural Products Chemistry, Prospect and Progress in Chinese Medicine Research

Research Areas: Natural Products Chemistry, Metabolomics, Bioorganic Chemistry, Chemical Analysis of Chinese Herbs

Academic Qualifications

1998.3	Ph.D, Nagasaki University, Japan
1990.7	M. Sc., China Pharmaceutical University, Nanjing, China
1987.7	B. Sc., China Pharmaceutical University, Nanjing, China

Teaching Experience

2015.9 - Present	Chair Professor, Macau University of Science and Technology
2011.7- 2015.8	Professor, Macau University of Science and Technology
2008.9 - 2011.6	Professor, School of Chinese Medicine, Hong Kong Baptist University
2005.7 - 2008.8	Associate Professor, School of Chinese Medicine, Hong Kong Baptist University
2001.10 - 2005.6	Assistant Professor, School of Chinese Medicine, Hong Kong Baptist University
1999.11 - 2001.9	(Sabbatical leave) Postdoctoral Research Fellow, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, U.S.A
1996.10 - 2001.9	Research Assistant Professor, School of Pharmaceutical Sciences, Nagasaki University, Japan
1990.7 - 1994.3	Research Associate, Lecturer, China Pharmaceutical University, Nanjing, China

Papers published in the past five years (2020~2024)

1. Yanqi Wu, Yuhong Guan, Peilin Huang, Hui Chen, Liping Bai, **Zhihong Jiang***. "Preparation of norovirus GII loop mediated isothermal amplification freeze-drying microsphere reagents and its application in an on-site integrated rapid detection platform." *Chinese Chemical Letters* 35.9 (2024): 109308.

2. Lu Fu, Can-Can Wang, Wenyue Tian, Zhiyan Liu, Meng-Yu Bao, Jiazheng Liu, Wei Zhang, Li-Ping Bai*, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "NMR-Guided Isolation of Anti-inflammatory Carabranolides from the Fruits of Carpesium abrotanoides L." *Journal of Natural Products* 87.7 (2024): 1786-1797.

3. Jiazheng Liu, Ting Xu, Jianjun Ding, Haoyue Wen, Jieru Meng, Qing Liu, Xiaomei Liu,

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4. Liu Yang, Chengting Zi, Yanlang Li, Jia Huang, Zhijia Gu, Caiyun Wang, Jiang-Miao Hu*, **Zhihong Jiang***, Wei Zhang*. "An in-depth investigation of molecular interaction in zeaxanthin/corn silk glycan complexes and its positive role in hypoglycemic activity." *Food Chemistry* 438 (2024): 137986.

5. Zhi-Rong Lin, Meng-Yu Bao, Hao-Ming Xiong, Dai Cao, Li-Ping Bai, Wei Zhang, Cheng-Yu Chen, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Boswellianols A–I, Structurally Diverse Diterpenoids from the Oleo-Gum Resin of Boswellia carterii and Their TGF-β Inhibition Activity." *Plants* 13.8 (2024): 1074.

6. Lu Fu, Wenyue Tian, Meng-Yu Bao, Zhiyan Liu, Wen-Jing Ren, Jiazheng Liu, Wei Zhang, Zhifeng Zhang, Jin Gao, Li-Ping Bai*, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Cevanine-type alkaloids from the bulbs of Fritillaria unibracteata var. wabuensis and their antifibrotic activities in vitro." *Phytochemistry* 220 (2024): 114018.

7. Ling Zeng, Cangman Zhang, Mingrong Yang, Jianfeng Sun, Jingguang Lu, Huixia Zhang, Jianfeng Qin, Wei Zhang, **Zhihong Jiang***. "Unveiling the Diversity and Modifications of Short Peptides in Buthus martensii Scorpion Venom through Liquid Chromatography-High Resolution Mass Spectrometry." *Toxins* 16.3 (2024): 155.

8. Fei-Long Chen, Dong-Li Liu, Wen-Jing Ren, Hao-Ming Xiong, Li-Ping Bai, Wei Zhang, Chitin Hon, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Atrachinenins D–S, novel meroterpenoids with geranyl hydroquinone moiety from Atractylodes chinensis by the LC/MS-based molecular decoy and targeted isolation." *Bioorganic Chemistry* 144 (2024): 107111.

9. Peilun Lyu, Jiazheng Liu, Yuhan Zhang, Ben Ye, Ting Lan, Li-Ping Bai, Zhanchuan Cai*, **Zhi-Hong Jiang***. "A Novel Feature Fusion Framework for Industrial Automation Single-Multiple Object Detection." *IEEE Transactions on Industrial Informatics* 20.5 (2024): 7686-7697.

10. Min Zhang, Long-Bo Bai, Lee-Fong Yau, Tian-Tian Tong, Wei Zhang*, **Zhi-Hong Jiang***. "Identification of Cannabidivarin Metabolites in Different Mouse Organs Using Ultra-Performance Liquid Chromatography Coupled to a Quadrupole Time-of-Flight Mass Spectrometer." *Cannabis and Cannabinoid Research* 9.1 (2024): 386-396.

11. Yue Wang, Fei Yu, Qinghua Liu, Caiyun Wang, Guoyuan Zhu, Liping Bai, Shuai Shi,

Yunfeng Zhao*, **Zhihong Jiang***, Wei Zhang*. "A novel and sensitive dual signaling ratiometric electrochemical aptasensor based on nanoporous gold for determination of Ochratoxin A." *Food Chemistry* 432 (2024): 137192.

12. Xinyu Zhang, Yuting Chen, Yueying Pan, Xinye Ma, Gui Hu, Song Li, Yan Deng, Zhu Chen, Hui Chen*, Yanqi Wu*, **Zhihong Jiang***, Zhiyang Li. "Research progress of severe acute respiratory syndrome coronavirus 2 on aerosol collection and detection." *Chinese Chemical Letters* 35.1 (2024): 108378.

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14. Mingyue Zhou, Ziwei Yang, Tianpeng Yin, Yunfeng Zhao, Cai-yun Wang, Guo-yuan Zhu, Li-ping Bai, **Zhi-hong Jiang***, Wei Zhang*. "Functionalized Fe-Doped Carbon Dots Exhibiting Dual Glutathione Consumption to Amplify Ferroptosis for Enhanced Cancer Therapy." *ACS Applied Materials & Interfaces* 15.46 (2023): 53228-53241.

15. Qian-Bao Liu, Jiazheng Liu, Jing-Guang Lu, Ming-Rong Yang, Wei Zhang, Wen-Jia Li, Zheng-Ming Qian, **Zhi-Hong Jiang***, Li-Ping Bai*. "Quantitative 1H NMR with global spectral deconvolution approach for quality assessment of natural and cultured Cordyceps sinensis." *Journal of Pharmaceutical and Biomedical Analysis* (2023): 115603.

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induced oxidative damage to tRNA in human cells based on oxidized nucleotide and tRNA profiling." *Environment International* (2023): 108038.

20. Hao-Ming Xiong, Hui-Ying Li, Zhi-Rong Lin, Xiao-Mei Liu, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Chemical Constituents from the Fruits of Amomum kravanh and Their Role in Activating Alcohol Dehydrogenase." *Molecules* 28.12 (2023): 4878.

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30. Kua Hu, Tong-Meng Yan, Kai-Yue Cao, Fang Li, Xiao-Rong Ma, Qiong Lai, Jin-Cheng Liu, Yu Pan, Jun-Ping Kou, **Zhi-Hong Jiang***. "A tRNA-derived fragment of ginseng protects heart against ischemia/reperfusion injury via targeting the lncRNA MIAT/VEGFA pathway." *Molecular Therapy-Nucleic Acids* 29 (2022): 672-688.

31. Jing-Guang Lu, Yingwei Wang, Ming-Rong Yang, Cai-Yun Wang, Jieru Meng, Jiazheng Liu, Zifeng Yang, Kongsong Wu, Li-Ping Bai*, Guo-Yuan Zhu*, **Zhi-Hong Jiang***. "Structures, biomimetic synthesis, and anti-SARS-CoV-2 activity of two pairs of enantiomeric phenylpropanoid-conjugated protoberberine alkaloids from the rhizomes of Corydalis decumbens." *Archives of Pharmacal Research* 45.9 (2022): 631-643.

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35. Yingwei Wang, Mingrong Yang, Chichou Lao, **Zhihong Jiang***. "Potassium-Base-Mediated Autoxidative Diastereoselective Homocoupling of N-Acyl-2-aminoacetophenones." *Organic Letters* 24.14 (2022): 2625-2629.

36. Kai-Yue Cao, Tong-Meng Yan, Ji-Zhou Zhang, Ting-Fung Chan, Jie Li, Chong Li, Elaine Lai-Han Leung, Jin Gao, Bao-Xian Zhang, **Zhi-Hong Jiang***. "A tRNA-derived fragment from Chinese yew suppresses ovarian cancer growth via targeting TRPA1." *Molecular Therapy-Nucleic Acids* 27 (2022): 718-732.

37. Fei-Long Chen, Dong-Li Liu, Jing Fu, Ji Yang, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "(±)-Atrachinenins A—C, Three Pairs of Caged C27 Meroterpenoids from the Rhizomes of Atractylodes chinensis." *Chinese Journal of Chemistry* 40.4 (2022): 460-466.

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39. Tianpeng Yin, Jingguang Lu, Qinghua Liu, Guoyuan Zhu, Wei Zhang*, **Zhihong Jiang***. "Validated quantitative 1H NMR method for simultaneous quantification of indole alkaloids in Uncaria rhynchophylla." *ACS Omega* 6.47 (2021): 31810-31817.

40. Xin Liu, Jing Fu, Rong-Sheng Shen, Xu-Jia Wu, Ji Yang, Li-Ping Bai, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Linderanoids A–O, dimeric sesquiterpenoids from the roots of Lindera aggregata (Sims) Kosterm." *Phytochemistry* 191 (2021): 112924.

41. Yahui Ge, Na Li, Yu Fu, Xi Yu, Ying Xiao, Zhiying Tang, Jianbo Xiao, Jian-Lin Wu*, **Zhi-Hong Jiang***. "Deciphering superior quality of Pu-erh tea from thousands of years' old trees based on the chemical profile." *Food Chemistry* 358 (2021): 129602.

42. Qiang Shang, Xiaobo Zhou, Ming-Rong Yang, Jing-Guang Lu, Yu Pan, Guo-Yuan Zhu*, **Zhi-Hong Jiang***. "Amide Derivatives of Ginkgolide B and Their Inhibitory Effects on PAF-Induced Platelet Aggregation." *ACS Omega* 6.35 (2021): 22497-22503.

43. Xin Liu, Ji Yang, Jing Fu, Pei-Lin Xu, Tang-Gui Xie, Li-Ping Bai, **Zhi-Hong Jiang***, Guo-Yuan Zhu*. "Monoterpene-flavonoid conjugates from Sarcandra glabra and their autophagy modulating activities." *Bioorganic Chemistry* 112 (2021): 104830.

44. WANG Cai-Yun, LU Jing-Guang, CHEN Da-Xin, WANG Jing-Rong, CHE Kai-Si, Ming Zhong, Wei Zhang*, **Zhi-Hong Jiang***. "Comprehensive chemical study on different organs of cultivated and wild Sarcandra glabra using ultra-high performance liquid chromatography time-of-flight mass spectrometry (UHPLC-TOF-MS)." *Chinese Journal of Natural Medicines* 19.5 (2021): 391-400.

45. Xin Liu, Jing Fu, Ji Yang, Ancheng C Huang, Run-Feng Li, Li-Ping Bai, Liang Liu, **Zhi-Hong Jiang*,** Guo-Yuan Zhu*. "Linderaggrenolides A–N, oxygen-conjugated

sesquiterpenoid dimers from the roots of Lindera aggregata." *ACS Omega* 6.8 (2021): 5898-5909.

46. Yu Pan, Tong-Meng Yan, Jing-Rong Wang, **Zhi-Hong Jiang***. "The nature of the modification at position 37 of tRNAPhe correlates with acquired taxol resistance." *Nucleic Acids Research* 49.1 (2021): 38-52.

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48. Tianpeng Yin, Huixia Zhang, Wei Zhang*, **Zhihong Jiang***. "Chemistry and biological activities of hetisine-type diterpenoid alkaloids." *RSC advances* 11.57 (2021): 36023-36033.

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for management of coronavirus disease 2019 and rheumatoid arthritis." *ACS Omega* 5.47 (2020): 30519-30530.

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