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## 简介:

姜志宏讲座教授于1987年毕业于中国药科大学, 1990年于同校取得硕士学位。1994年获日本国费奖学金资助留学日本, 1998年在长崎大学获得药学博士学位。1999年至2001年间在美国哈佛医学院生物化学与分子药理学系进行博士后研究工作, 从事抗肿瘤抗生素与小RNA形成共价键附加物的研究。2001年姜志宏博士受聘于香港浸会大学中医药学院任助理教授, 2005年提升为副教授, 2008年任教授。曾担任教学部副主任和中药学硕士课程主任。2011年7月任澳门科技大学澳门药物及健康应用研究院院长, 2016年3月任澳门科技大学副校长。2022年3月起兼任中药质量研究国家重点实验室(澳门科技大学)主任。

姜教授是国际知名的天然药物化学家, 他的研究领域包括天然药物化学、代谢组学、中药质量标准以及生物有机化学。为了推进中药现代化, 姜教授一直潜心以现代光谱和色谱学、化学生物学和代谢组学的研究技术阐明中药的有效成分和作用机理, 并取得卓著成果。迄今姜教授已在*Nucleic Acids Research*, *Nature Communications*, *JACS*, *Analytical Chemistry*, *Organic Letters*, *Molecular Therapy-Nucleic Acids*等国际学术刊物上发表330余篇SCI论文, 引用次数达13,000余次, H-index为67 (Google Scholar, 2024)。

姜教授于2007年获得国家杰出青年基金(海外), 并于2014年获聘为国家教育部长江学者讲座教授, 2022年当选为国家药典委员会委员。他的研究亦得到澳门科学技术发展基金、香港研究资助局、香港卫生署、国家自然科学基金、美国国立卫生研究院的资助。此外, 姜教授还担任全国中药标准化技术委员会副主任委员、海峡两岸暨港澳地区中医药科技合作中心会长、澳门科协副会长、澳门特区政府科技委员会和经济委员会委员, 以及澳门高等教育发展促进会副理事长等社会职务。

## 教研领域:

教学科目: 中药化学; 中药分析

研究方向: 天然药物化学; 代谢组学; 生物有机化学; 中药质量标准

## 学历:

- 1998.03 日本长崎大学药学 博士学位  
1990.07 中国药科大学理学 硕士学位  
1987.07 中国药科大学理学 学士学位

## 教学经验:

- 2015.09 - 今 澳门科技大学 讲座教授  
2011.07 - 2015.08 澳门科技大学 教授  
2008.09 - 2011.06 香港浸会大学中医药学院 教授  
2005.07 - 2008.08 香港浸会大学中医药学院 副教授  
2001.10 - 2005.06 香港浸会大学中医药学院 助理教授  
1999.11 - 2001.09 哈佛医学院生物化学与分子药理学系 博士后  
1996.10 - 2001.09 日本长崎大学药学部 助手 (文部教官)  
1990.07 - 1994.03 中国药科大学助教 讲师

## 科研项目承担:

- 2024 - 今 基于药食同源中药协同增效关键技术的新一代抗衰老产品开发  
2022 - 今 新冠病毒及其变异株S蛋白糖基化深度分析及糖基结构与抗体识别相关性研究  
2021 - 2024 新型冠状病毒气溶胶现场快速检测仪的研发与应用研究  
2020 - 2021 抗新冠病毒特效药瑞德西韦的化学合成及结构修饰  
2020 - 2023 融合人工智能和多组学技术开展川贝母等六种中药的多维度质量控制研究  
2019 - 2022 应用靶向定量蛋白质组学精准分析不同疾病相关的 chemerin 蛋白亚型及筛选验证治疗多囊卵巢综合症中药活性成分  
2019 - 2022 冬虫夏草鞘氨醇衍生物靶向慢阻肺Cer-Sph-S1P代谢通路的免疫调节机制研究  
2017 - 2020 桔梗“引药上行”药效物质基础的作用机理及配伍应用的化学生物学研究  
2015 - 2016 板蓝根源木脂素调控宿主信号转导的抗流感病毒分子机制研究  
2014 - 2017 以免疫球蛋白糖基化为靶目标中药有效成份活性评价及作用机理的研究  
2013 - 2016 基于全成分库的板蓝根抗流感病毒药效物质及其多靶点作用机制的研究  
2012 - 2013 中药配方颗粒的质量标准的研究  
2011 - 2013 基于LC-MS和LC-NMR技术的创新脂组学分析平台的建立及其在中药现代研究中的应用。

近五年发表论文（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, Wei Zhang, Guo-Yuan Zhu, **Zhi-Hong Jiang\***, Jin Gao\*, Li-Ping 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* (2024): 139814.
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- $\beta$  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.
13. Da Zhang, Lee-Fong Yau, Long-Bo Bai, Tian-Tian Tong, Kai-Yue Cao, Tong-Meng Yan, Ling Zeng, **Zhi-Hong Jiang\***. "Hydroxyapatite-based nano-drug delivery system for nicotinamide mononucleotide (NMN): significantly enhancing NMN bioavailability and replenishing in vivo nicotinamide adenine dinucleotide (NAD<sup>+</sup>) levels." *Journal of Pharmacy and Pharmacology* 75.12 (2023): 1569-1580.
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 <sup>1</sup>H 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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17. Hao-Yuan Lyu, Meng-Yu Bao, Chi-Cheng Io, Hao-Ming Xiong, Fei-Long Chen, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang\***, Guo-Yuan Zhu\*. "Sesquiterpenoids from the roots of *Aucklandia costus* and their anti-inflammatory activities." *Fitoterapia* (2023): 105604.
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19. Hui-Xia Zhang, Dian Yu, Jian-Feng Sun, Ling Zeng, Cai-Yun Wang, Li-Ping Bai, Guo-Yuan Zhu, **Zhi-Hong Jiang\***, Wei Zhang\*. "An integrated approach to evaluate acetamiprid-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.
21. Fei Ren, Kai-Yue Cao, Rui-Ze Gong, Meng-Lan Yu, Peng Tao, Yi Xiao, **Zhi-Hong Jiang\***. "The role of post-transcriptional modification on a new tRNA<sup>Ala</sup> (GAU) identified from *Ganoderma lucidum* in its fragments' cytotoxicity on cancer cells." *International Journal of Biological Macromolecules* 229 (2023): 885-895.

22. Hui-Xia Zhang, Jian-Feng Qin, Jian-Feng Sun, Yu Pan, Tong-Meng Yan, Cai-Yun Wang, Li-Ping Bai, Guo-Yuan Zhu, **Zhi-Hong Jiang\***, Wei Zhang\*. "Selective Chemical Labeling Strategy for Oligonucleotides Determination: A First Application to Full-Range Profiling of Transfer RNA Modifications." *Analytical Chemistry* 95.2 (2023): 686-694.
23. Jie-Ru Meng, Jiazheng Liu, Lu Fu, Tong Shu, Lingzhi Yang, Xueji Zhang, **Zhi-Hong Jiang\***, Li-Ping Bai\*. "Anti-entry activity of natural flavonoids against SARS-CoV-2 by targeting spike RBD." *Viruses* 15.1 (2023): 160.
24. Tianpeng Yin, Yi Yu, Qinghua Liu, Guoyuan Zhu, Liping Bai, Wei Zhang\*, **Zhihong Jiang\***. "13C-NMR-based MixONat strategy coupled with 2D NMR for rapid dereplication and identification of new secondary metabolites from Aloe vera." *Journal of Food Composition and Analysis* 115 (2023): 104975.
25. Hui Chen, Xinye Ma, Xinyu Zhang, Gui Hu, Yan Deng, Song Li, Zhu Chen, Nongyue He\*, Yanqi Wu\*, **Zhihong Jiang\***. "Novel aerosol detection platform for SARS-CoV-2: Based on specific magnetic nanoparticles adsorption sampling and digital droplet PCR detection." *Chinese Chemical Letters* 34.1 (2023): 107701.
26. Lee-Fong Yau, Hao Huang, Tian-Tian Tong, Long-Bo Bai, Guo-Yuan Zhu, Yuanyuan Hou, Gang Bai\*, **Zhi-Hong Jiang\***. "Characterization of deglycosylated metabolites of platycosides reveals their biotransformation after oral administration." *Food Chemistry* 393 (2022): 133383.
27. Xu-Jia Wu, Dai Cao, Fei-Long Chen, Rong-Sheng Shen, Jin Gao, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang\***, Guo-Yuan Zhu\*. "Chlorfortunones A and B, Two Sesquiterpenoid Dimers, Possessing Dispiro [4, 2, 5, 2] pentadecane-6, 10, 14-tren Moiety from Chloranthus fortunei." *ACS Omega* 7.39 (2022): 35063-35068.
28. Jiazheng Liu, Jieru Meng, Runfeng Li, Haiming Jiang, Lu Fu, Ting Xu, Guo-Yuan Zhu, Wei Zhang, Jin Gao, **Zhi-Hong Jiang\***, Zi-Feng Yang\*, Li-Ping Bai\*. "Integrated network pharmacology analysis, molecular docking, LC-MS analysis and bioassays revealed the potential active ingredients and underlying mechanism of Scutellariae radix for COVID-19." *Frontiers in plant science* 13 (2022): 988655.
29. Tian-Peng Yin, Yi Yu, Qing-Hua Liu, Ming-Yue Zhou, Guo-Yuan Zhu, Li-Ping Bai, Wei Zhang\*, **Zhi-Hong Jiang\***. "2D NMR-based MatchNat Dereplication Strategy Enables Explosive Discovery of Novel Diterpenoid Alkaloids." *Chinese Journal of Chemistry* 40.18 (2022): 2169-2178.
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.
32. Long-Bo Bai, Lee-Fong Yau, Tian-Tian Tong, Wai-Him Chan, Wei Zhang\*, **Zhi-Hong Jiang\***. "Improvement of tissue-specific distribution and biotransformation potential of

- nicotinamide mononucleotide in combination with ginsenosides or resveratrol." *Pharmacology Research & Perspectives* 10.4 (2022): e00986.
33. Rong-Sheng Shen, Dai Cao, Fei-Long Chen, Xu-Jia Wu, Jin Gao, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang\***, Guo-Yuan Zhu\*. "New Monoterpene-Conjugated Phenolic Constituents from Nutmeg and Their Autophagy Modulating Activities." *Journal of Agricultural and Food Chemistry* 70.31 (2022): 9684-9693.
  34. Kai-Yue Cao, Yu Pan, Tong-Meng Yan, Peng Tao, Yi Xiao, **Zhi-Hong Jiang\***. "Antitumor activities of tRNA-derived fragments and tRNA halves from non-pathogenic Escherichia coli strains on colorectal cancer and their structure-activity relationship." *mSystems* 7.2 (2022): e00164-22.
  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.
  38. Fei-Long Chen, Dong-Li Liu, Jing Fu, Lu Fu, Jin Gao, Li-Ping Bai, Wei Zhang, **Zhi-Hong Jiang\***, Guo-Yuan Zhu\*. "Atrachinenynes A—D, four diacetylenic derivatives with unprecedented skeletons from the rhizomes of Atractylodes chinensis." *New Journal of Chemistry* 46.32 (2022): 15530-15537.
  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.

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53. Mao-Ze Wang, Jin Gao, Yang Chu, Jie Niu, Ming Chen, Qiang Shang, Li-Hua Peng\*, **Zhi-Hong Jiang\***. "Synthesis of crocetin derivatives and their potent inhibition in multiple tumor cells proliferation and inflammatory property of macrophage." *BMC Complementary medicine and therapies* 20 (2020): 1-8.
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