

## 白丽萍



职称： 教授

学院/部门： 中药质量研究国家重点实验室， 澳门药物及健康应用  
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职务： 中药化学与生物有机化学实验室副主任

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**简介：**白丽萍教授于 2001 年毕业于辽宁中医药大学，2004 年于同校取得硕士学位。2008 于香港浸会大学取得博士学位。2006 年 10 月至 2007 年 1 月期间，于日本大阪大学产业科学研究所做访问学者，主要从事苯并菲啶类生物碱与人端粒 G-四链体 DNA 的相互作用研究。毕业后于香港浸会大学中医药学院进行研究工作。2011 年 9 月受聘于澳门科技大学中药质量研究国家重点实验室，担任助理教授（自 2014 年 9 月，博士生导师），于 2015 年 7 月破格晋升为副教授，2023 年 7 月晋升为教授。

白教授的研究方向包括生物有机化学与药物化学和天然药物化学。主要从事中药中活性成分及其结构修饰物的化学与药效学研究；药物分子的设计、合成及其抗肿瘤、抗纤维化和抗病毒进入宿主等药效研究；中药成分的原位分析技术研究等。目前，专注于新型鞘脂的设计合成及其在 RNA 递送系统（脂质纳米粒 LNPs 等）中的应用研究及抗肺纤维化药物分子与中药活性成分地发现研究，已获澳门科学技术发展基金（FDCT）的项目资助，**在研项目总研究经费 600 万澳门币**。曾参与香港 31 种剧毒中药的显微鉴别研究工作。研究论文发表在 *European Journal of Medicinal Chemistry*, *Bioorganic Chemistry*, *Organic Letters*, *Journal of Natural Products*, *Journal of Organic Chemistry*, *Phytochemistry*, *Biomedicine & Pharmacotherapy*, *Organic Chemistry Frontiers* 和 *Food Chemistry* 等国际学术刊物上百余篇。迄今，已获 24 项专利授权（含 5 项美国专利）。其中，1 项中国发明专利已实现技术转让

于药企。荣获 2013 年度「澳科大中银学术研究优秀奖」，2018/2019 学年度 澳科大「教学杰出奖」和 2020 年度澳门自然科学奖三等奖（团体奖）等奖项。主持澳门科学技术发展基金（FDCT）和澳门基金会等资助的研究项目 10 余项，包括 2 项 FDCT 重点研发项目（课题：基于计算器视觉技术的中药材快速鉴别研究，PI；课题：药食同源中药三萜皂苷类成分的深入挖掘分析及样本库建立，PI）；2 项 FDCT-国家科技部联合资助项目和 1 项 FDCT-广东省科技厅联合资助项目。作为项目组成员，参与国家自然科学基金和广东省自然科学基金，2021 年深圳市科技创新委员会资助的深港澳科技计划（C 类项目）等项目。此外，还担任中文核心期刊《分析测试学报》编委等学术职务。

#### **教学科目：**

中药学博士/硕士研究生：中药研究进展（课程统筹）；中药学研究进展（课程统筹）；中药化学选论（课程统筹）；中药化学实验技术（课程统筹）。

药学博士研究生/中药学博士研究生：专题导读。

中药学本科生：中药化学（理论课与实验课，实验课程统筹）；专题研究（课程统筹）。

**研究方向：生物有机与药物化学；天然药物化学**

#### **研究兴趣：**

- 新型鞘脂的设计合成及其在 RNA 药物递送系统（LNPs）中的应用研究
- 抗癌和抗纤维化等药物分子的设计合成与药效学研究
- 药食同源中药活性成分的新产品开发
- 中药的原位分析技术研究
- 基于计算器视觉技术的中药材快速识别研究（与计算机视觉技术领域专家蔡占川教授团队的合作研究）

#### **学历**

2008.9 香港浸会大学哲学博士学位

2004.7 辽宁中医药大学生药学硕士学位

2001.7 辽宁中医药大学中药学（英语班，五年制）学士学位

### 教学经验:

2023.7-今	澳门科技大学中药质量研究国家重点实验室，教授
2015.7-2023.6	澳门科技大学中药质量研究国家重点实验室，副教授
2011.9-2015.6	澳门科技大学中药质量研究国家重点实验室，助理教授
2010.10-2011.8	香港浸会大学中医药学院，高级研究助理
2008.10-2010.9	香港浸会大学中医药学院，研究助理
2006.10-2007.1	日本大阪大学产业科学研究所，访问学者
2003.10-2005.4	香港浸会大学中医药学院，访问学者

### 主持研究项目

- 14) 2024.10-2027.10，血管微环境 S1PR1 调控肺泡屏障稳态机制及肺纤维化靶向新药研发，澳门科学技术发展基金与国家科技部联合科研资助项目 0161/2024/AMJ，**208.1 万澳门币**，项目负责人
- 13) 2024.06-2027.06，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，澳门科学技术发展基金重点研发项目 0001/2023/AKP，**1,191.6 万澳门币**，子课题：药食同源中药三萜皂苷类成分的深入挖掘分析及样本库建立，课题负责人
- 12) 2023.05-2026.05，基于鞘脂载体的新型 LNP-COVID-19 mRNA 疫苗递送系统的研发，澳门科学技术发展基金项目 0137/2022/A3，**198.8 万澳门币**，项目负责人
- 11) 2023.01-2023.12，中药成分结构改造及抗肿瘤药效研究，清华大学深圳国际研究生院省部共建肿瘤化学基因组学国家重点实验室 2022 年度开放课题基金 SKLCO202210，**10 万人民币**，项目负责人

- 10) 2022.02-2025.02, 一种强心苷类化合物及其合成方法与应用 (中国内地发明专利申请), 澳门科学技术发展基金专利资助项目 011/2021/APT, **9,140 澳门币**, 项目负责人
- 9) 2022.08-2025.08, 新型 VEGFR-2/Aurora A 双靶点抑制剂的设计、合成及抗肿瘤活性研究, 五邑大学港澳联合研发基金项目 2021WGALH08, **10 万人民币**, 澳方项目负责人
- 8) 2021.03-2023.03, 中药新药“玉蝴蝶祛斑膏”的质量标准提升及临床研究, 澳门科学技术发展基金与广东省科技厅联合科研资助项目 0043/2020/AGJ, **104.8 万澳门币**, 项目负责人
- 7) 2020.09-2023.09, 新型 S1P1 调节剂治疗特发性肺纤维化的创新药物研究, 澳门科学技术发展基金与国家科技部联合科研资助项目 0074/2019/AMJ, **210.1 万澳门币**, 项目负责人
- 6) 2020.04-2021.04, 抗新型冠状病毒肺炎的特效中药的研发, 澳门科学技术发展基金项目 0064/2020/A, **40.4 万澳门币**, 项目负责人
- 5) 2020.01-2023.01, 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, 澳门科学技术发展基金重点研发项目 0023/2019/AKP, **800 万澳门币**, 子课题负责人
- 4) 2019.06-2022.06, 碱性鞘磷脂脂质体的构建及其用于 siRNA 和化疗药物的联合递送研究, 澳门科学技术发展基金 0004/2019/A1, **270 万澳门币**, 项目负责人
- 3) 2014.01-2018.01, Calotropis 属药用植物中具有低氧诱导因子-1(HIF-1) 抑制活性的 Cardenolide 类成分研究, 澳门科学技术发展基金 056/2013/A2, **304 万澳门币**, 项目负责人
- 2) 2012.06-2014.11, 共价键修饰 IKK $\beta$  的 Epoxide 类中药化学成分的 GSH 追踪分离及其抗炎活性评价, 澳门科学技术发展基金 063/2011/A3, **202.2 万澳门币**, 项目负责人

- 1) 2012.01-2012.12, ESI-TOF-MS 和 MALDI-TOF-MS 技术对黄烷醇和黄酮醇化合物与淀粉样多肽结合作用的比较研究, 澳门基金会 (#0205), **8.5 万澳门币**, 项目负责人

## 学术成果

代表性研究论文 (\*: 责任作者; #: 第一作者)

- 1) Fu, Lu; Wang, Can-Can; Tian, Wenyue; Liu, Zhiyan; Bao, Meng-Yu; Liu, Jiazheng; Zhang, Wei; **Bai, Li-Ping\***; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. NMR-guided isolation of anti-inflammatory carabranolides from the fruits of *Carpesium abrotanoides* L. *Journal of Natural Products*, **2024**, 87, 1786-1797.
- 2) Liu, Jiazheng; Xu, Ting; Ding, Jianjun; Wen, Haoyue; Meng, Jieru; Liu Qing; Liu, Xiaomei; Zhang, Wei; Zhu, Guo-Yuan; Jiang, Zhi-Hong\*; Gao, Jing\*; **Bai, Li-Ping\***. 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**, 455, 139814.
- 3) Fu, Lu; Tian, Wenyue; Bao, Meng-Yu; Liu, Zhiyan; Ren, Wen-Jing; Liu, Jiazheng; Zhang, Wei; Zhang, Zhifeng; Gao, Jing; **Bai, Li-Ping\***; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Cevanine-type alkaloids from the bulbs of *Fritillaria unibracteata* var. *wabuensis* and their antifibrotic activities in vitro. *Phytochemistry*, **2024**, 220, 114018.
- 4) Chen, Jian-Li; Jia, Xiao-Hui; Wu, Xuan; Yuan, Ming-Heng; Xia, Xinyue; Yin, Dan; Chen, Xu; Gu, Ze-Yun; Liu, Jia-Zheng; **Bai, Li-Ping**; Luo, Kathy Qian; Wang, Jianfang; Zhu, Xiao-Ming\*. Kidney-targeted antioxidant salvianolic acid B nanoparticles restoring lysosome homeostasis for acute kidney injury therapy. *Chemical Engineering Journal*, **2024**, 490, 151811.
- 5) Lin, Zhi-Rong; Bao, Meng-Yu; Xiong, Hao-Ming; Cao, Dai; **Bai, Li-Ping**; Zhang, Wei; Chen, Cheng-Yu; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Boswellianols A–I, Structurally Diverse Diterpenoids from the Oleo-gum Resin of *Boswellia carterii* and Their TGF- $\beta$  Inhibition Activity. *Plants*, **2024**, 13, 1074.
- 6) Lyu, Peilun; Liu, Jiazheng; Zhang, Yuhan; Ye, Ben; Lan, Ting; **Bai, Li-Ping**; Cai, Zhanchuan\*;

- Jiang, Zhi-Hong\*. A Novel Feature Fusion Framework for Industrial Automation Single-Multiple Object Detection. *IEEE Transactions on Industrial Informatics*, **2024**, DOI:10.1109/TII.2024.3353814.
- 7) Chen, Fei-Long; Liu, Dong-Li; Ren, Wen-Jing; Xiong, Hao-Ming; **Bai, Li-Ping**; Zhang, Wei; Hon, Chitin; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Atrachinenins D-S, Novel Meroterpenoids with Geranyl Hydroquinone Moiety from *Atractylodes chinensis* by the LC/MS-based Molecular Decoy and Targeted Isolation. *Bioorganic Chemistry*, **2024**, *144*, 107111.
- 8) Wu, Yanqi; Guan, Yuhong; Huang, Peilin; Chen, Hui; **Bai, Li-Ping**; Jiang, Zhi-Hong\*. 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*, **2023**, 109308.
- 9) Zhou, Mingyue; Yang, Ziwei; Yin, Tianpeng; Zhao, Yunfeng; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Jiang, Zhi-Hong\*; Zhang, Wei\*. Functionalized Fe-Doped Carbon Dots Exhibiting Dual Glutathione Consumption to Amplify Ferroptosis for Enhanced Cancer Therapy. *ACS Applied Materials & Interfaces*, **2023**, *15*, 53228-53241.
- 10) Wang, Yue; Yu, Fei; Liu, Qinhuang; Wang, Caiyun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Shi, Shuai; Zhao, Yunfeng; Jiang, Zhi-Hong\*; Zhang, Wei\*. A novel and sensitive dual signaling ratiometric electrochemical aptasensor based on nanoporous gold for determination of Ochratoxin A. *Food Chemistry*, **2024**, 137192.
- 11) Liu, Qian-Bao; Liu, Jiazheng; Lu, Jing-Guang; Yang, Ming-Rong; Zhang, Wei; Li, Wen-Jia; Qian, Zheng-Ming; Jiang, Zhi-Hong\*; **Bai, Li-Ping**\*. Quantitative  $^1\text{H}$  NMR with global spectral deconvolution approach for quality assessment of natural and cultured *Cordyceps sinensis*. *Journal of Pharmaceutical and Biomedical Analysis*, **2023**, *235*, 115603.
- 12) Lyu, Hao-Yuan; Bao, Meng-Yu; Io, Chi-Cheng; Xiong, Hao-Ming; Chen, Fei-Long; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Sesquiterpenoids from the roots of *Aucklandia costus* and their anti-inflammatory activities. *Fitoterapia*, **2023**, *169*, 105604.
- 13) Xiong, Hao-Ming; Li, Hui-Ying; Lin, Zhi-Rong; Liu, Xiao-Mei; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Chemical Constituents from the Fruits of *Amomum kravanh* and Their Role in Activating Alcohol Dehydrogenase. *Molecules*, **2023**, *28*, 4878.

- 14) Zhang, Hui-Xia; Yu, Dian; Sun, Jian-Feng; Zeng, Ling; Wang, Cai-Yun; **Bai, Li-Ping**; Zhu, Guo-Yuan; Jiang, Zhi-Hong\*; Zhang, Wei\*. An Integrated Approach to Evaluate Acetamiprid-induced Oxidative Damage to tRNA in Human Cells Based on Oxidized Nucleotide and tRNA Profiling. *Environment International*, **2023**, *178*, 108038.
- 15) Ren, Wen-Jing; Io, Chi-Cheng; Jiang, Rong; Ng, Kei-Fong; Liu, Jiazheng; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Liu, Yuhong\*; Zhu, Guo-Yuan\*. Di- and Triterpenoids from the Rhizomes of *Isodon amethystoides* and Their Anti-inflammatory Activities. *Journal of Natural Products*, **2023**, *86*,1230-1239.
- 16) Lu, Li; Zhang, Xin; Kang, Yu; Xiong, Zhuang; Zhang, Kun; Xu, Xuetao\*, **Bai, Li-Ping\***; Li, Hongguang\*. Novel coumarin derivatives as potential tyrosinase inhibitors: Synthesis, binding analysis and biological evaluation. *Arabian Journal of Chemistry*, **2023**, *16*:104724.
- 17) Meng, Jie-Ru; Liu, Jiazheng; Fu, Lu; Shu, Tong; Yang, Lingzhi; Zhang, Xueji\*; Jiang, Zhi-Hong\*; **Bai, Li-Ping\***. Anti-Entry Activity of Natural Flavonoids Against SARS-CoV-2 by Targeting Spike RBD. *Viruses*, **2023**, *15*, 160.
- 18) Hao, Mengyao; Fu, Rong; Tai, Jun; Tian, Zhenhuan; Yuan, Xia; Chen, Yang; Wang, Mingjin; Jiang, Huimin; Ji, Ming; Lai, Fangfang; Xue, Nina; **Bai, Li-Ping**; Zhu, Yizhun; Lv, Xiaoxi\*; Chen, Xiaoguang\*; Jin, Jing\*. S1PR1 serves as a viable drug target against pulmonary fibrosis by increasing the integrity of the endothelial barrier of the lung. *Acta Pharmaceutica Sinica B*, **2023**, *13*, 1110-1127.
- 19) Zhang, Hui-Xia<sup>#</sup>; Qin, Jian-Feng<sup>#</sup>; Sun, Jian-Feng; Pan, Yu; Yan, Tongmeng; Wang, Cai-Yun; **Bai, Li-Ping**; Zhu, Guo-Yuan; Jiang, Zhi-Hong\*; Zhang, Wei\*. Selective chemical labeling strategy for oligonucleotides determination: a first application to full-range profiling of transfer RNA modifications. *Analytical Chemistry*, **2023**, *95*, 686-694.
- 20) Liu, Jiazheng<sup>#</sup>; Meng, Jieru<sup>#</sup>; Li, Runfeng<sup>#</sup>; Jiang, Haiming; Fu, Lu; Xu, Ting; Zhu, Guo-Yuan; Zhang, Wei; Gao, Jin; Jiang, Zhi-Hong\*; Yang, Zi-Feng\*; **Bai, Li-Ping\***. 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*, **2022**, *13*, 988655.

- 21) Zheng, Zhiyuan<sup>#</sup>; Xu, Ting<sup>#</sup>; Liu, Zhiyang; Tian, Wenyue; Jiang, Zhi-Hong; Zhu, Guo-Yuan; Li, Ting; Gao, Jin; **Bai, Li-Ping\***. Cryptolepine suppresses breast adenocarcinoma *via* inhibition of HIF-1 mediated glycolysis. *Biomedicine & Pharmacotherapy*, **2022**, *153*, 113319.
- 22) Wu, Xu-Jia; Cao, Dai; Chen, Fei-Long; Shen, Rong-Sheng; Gao, Jin; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Chlorfortunoids A and B, Two Sesquiterpenoid Dimers Possessing Dispiro[4,2,5,2]pentadecane-6,10,14-tren Moiety from *Chloranthus fortunei*. *ACS Omega*, **2022**, *7*, 35063-35068.
- 23) Yin, Tianpeng; Yu, Yi; Liu, Qinghua; Zhu, Guoyuan; **Bai, Li-Ping**; Zhang, Wei\*; Jiang, Zhi-Hong\*. <sup>13</sup>C-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*, **2022**, *115*, 104975.
- 24) Lu, Jing-Guang; Wang, Yingwei; Yang, Ming-Rong; Wang, Cai-Yun; Meng, Jieru; Liu, Jiazheng; Yang, Zi-Feng; Wu, Kongsong; **Bai, Li-Ping\***; Zhu, Guo-Yuan\*; Jiang, Zhi-Hong\*. Structures, Biomimetic Synthesis, and Anti-SARS-CoV-2 Activity of Two Pairs of Enantiomeric Phenylpropanoid-Conjugated Pro-toberberine Alkaloids from the Rhizomes of *Corydalis decumbens*. *Archives of Pharmacal Research*, **2022**, *45*, 631-643.
- 25) Wu, Yanqi; **Bai, Li-Ping**; Ye, Chengfu; Guan, Yuhong; Yan, Kunming; Chen, Hui; Jiang Zhi-Hong\*. Novel miniaturized fluorescence loop-mediated isothermal amplification detection system for rapid on-site virus detection. *Frontiers in Bioengineering and Biotechnology*, **2022**, *10*, 964244.
- 26) Shen, Rong-Sheng; Cao, Dai; Chen, Fei-Long; Wu, Xu-Jia; Gao, Jin; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. New monoterpene-conjugated phenolic constituents from nutmeg and their autophagy modulating activities. *Journal of Agricultural and Food Chemistry*, **2022**, *70*(31), 9684-9693.
- 27) Chen, Fei-Long; Liu, Dong-Li; Fu, Jing; Fu, Lu; Gao, Jin; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Atrachinenynes A–D, four diacetylenic derivatives with unprecedented skeletons from the rhizomes of *Atractylodes chinensis*. *New Journal of Chemistry*, **2022**, Doi:10.1039/D2NJ02149H.



- 28) Kong, Lingkai<sup>#</sup>; Tian, Wenyue<sup>#</sup>; Liu, Zhiyan, Xu, Ting; Wen, Haoyue; Chen, Zihan; Gao, Jin; **Bai, Li-Ping\***. TfOH-Catalyzed Cascade C-H/N-H Chemo-regioselective Annulation of Indole-2-carboxamides with Benzoquinones for the Construction of Anticancer Tetracyclic Indolo[2,3-*c*]quinolinones. *Journal of Organic Chemistry*, **2022**, *87*, 7955-7967.
- 29) Yin, Tianpeng; Yu, Yi; Liu, Qinghua; Mingyue Zhou; Zhu, Guo-Yuan; **Bai, Li-Ping**; Zhang, Wei\*; Jiang, Zhi-Hong\*. 2D NMR-based MatchNat Dereplication Enables Explosive Discovery of Novel Diterpenoid Alkaloids. *Chinese Journal of Chemistry*, **2022**, *40*, 2169-2178.
- 30) Xu, Ting<sup>#</sup>; Meng, Jieru<sup>#</sup>; Cheng, Wanqing; Liu, Jiazheng; Chu, Junyan; Zhang, Qian; Ma, Nannan; **Bai, Li-Ping\***; Guo, Yong\*. Discovery of honokiol thioethers containing 1,3,4-oxadiazole moieties as potential  $\alpha$ -glucosidase and SARS-CoV-2 entry inhibitors. *Bioorganic and Medicinal Chemistry*, **2022**, *67*, 116838.
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#### 学术机构及社会任职

中国化学会 会员

世界中医药学会联合会满药专业委员会（常务理事）

中文核心期刊《分析测试学报》编委

## 奖项

- ✓ 2020 年度澳门自然科学奖三等奖，药物新靶标及中药药效物质的特征性分子轮廓刻画（项目编号 012/2020/AN），团体奖，排名第三，2020.10
- ✓ 2018/2019 学年度 澳科大「教学杰出奖」，2019.08
- ✓ 2013 年度「澳科大中银学术研究优秀奖」，2014.09
- ✓ 2016 年度中珠医疗生命科学科研奖一等奖，2017.09