

## 白麗萍



職稱： 教授

學院/部門：中藥質量研究國家重點實驗室，澳門藥物及健康應用  
研究院

職務：中藥化學與生物有機化學實驗室副主任

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**簡介:** 白麗萍教授于 2001 年畢業于遼寧中醫藥大學，2004 年於同校取得碩士學位。2008 年于香港浸會大學取得博士學位。2006 年 10 月至 2007 年 1 月期間，于日本大阪大學產業科學研究所做訪問學者，主要從事苯並菲啶類生物鹼與人端粒 G-四鏈體 DNA 的相互作用研究。畢業後於香港浸會大學中醫藥學院進行研究工作。2011 年 9 月受聘于澳門科技大學中藥質量研究國家重點實驗室，擔任助理教授（自 2014 年 9 月，博士生導師），於 2015 年 7 月破格晉升為副教授，2023 年 7 月晉升為教授。

白教授的研究方向包括生物有機化學與藥物化學和天然藥物化學。主要從事中藥中活性成分及其結構修飾物的化學與藥效學研究；藥物分子的設計、合成及其抗腫瘤、抗纖維化和抗病毒進入宿主等藥效研究；中藥成分的原位分析技術研究等。目前，專注於新型鞘脂的設計合成及其在 RNA 遞送系統（脂質納米粒 LNPs 等）中的應用研究及抗肺纖維化藥物分子與中藥活性成分的發現研究，已獲澳門科學技術發展基金（FDCT）的項目資助，**在研項目總研究經費逾 600 萬澳門幣**。曾參與香港 31 種劇毒中藥的顯微鑒別研究工作。研究論文發表在 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 等國際學術刊物上百餘篇。迄今，已獲 24 項專利授權（含 5 項美國專利）。其中，1 項中國發明專利已實現技術轉讓

於藥企。榮獲 2013 年度「澳科大中銀學術研究優秀獎」，2018/2019 學年度 澳科大「教學傑出獎」和 2020 年度澳門自然科學獎三等獎（團體獎）等獎項。主持澳門科學技術發展基金（FDCT）和澳門基金會等資助的研究項目 10 餘項，包括 2 項 FDCT 重點研發項目（課題：基於計算機視覺技術的中藥材快速鑒別研究，PI；課題：葯食同源中藥三萜皂苷類成分的深入挖掘分析及樣本庫建立，PI）；2 項 FDCT-國家科技部聯合資助項目和 1 項 FDCT-廣東省科技廳聯合資助項目。作為項目組成員，參與國家自然科學基金和廣東省自然科學基金，2021 年深圳市科技創新委員會資助的深港澳科技計劃（C 類項目）等項目。此外，還擔任中文核心期刊《分析測試學報》編委等學術職務。

#### 教學科目：

中藥學博士/碩士研究生：中藥研究進展（課程統籌）；中藥學研究進展（課程統籌）；中藥化學選論（課程統籌）；中藥化學實驗技術（課程統籌）。

葯學博士研究生/中藥學博士研究生：專題導讀。

中藥學本科生：中藥化學（理論課與實驗課，實驗課程統籌）；專題研究（課程統籌）。

#### 研究方向：生物有機與葯物化學；天然葯物化學

#### 研究興趣：

- 新型鞘脂的設計合成及其在 RNA 葯物遞送系統（LNPs）中的應用研究
- 抗癌和抗纖維化等葯物分子的設計合成與葯效學研究
- 葯食同源中藥活性成分的新產品開發
- 中藥的原位分析技術研究
- 基於計算機視覺技術的中藥材快速鑒別研究（與計算機視覺領域專家蔡占川教授團隊的合作研究）

#### 學歷

- 2008.9 香港浸會大學哲學博士學位
- 2004.7 遼寧中醫藥大學生藥學碩士學位
- 2001.7 遼寧中醫藥大學中藥學（英語班，五年制）學士學位

#### 教學經驗：

- 2023.7-今 澳門科技大學中藥質量研究國家重點實驗室，教授
- 2015.7-2023.6 澳門科技大學中藥質量研究國家重點實驗室，副教授
- 2011.9-2015.6 澳門科技大學中藥質量研究國家重點實驗室，助理教授
- 2010.10-2011.8 香港浸會大學中醫藥學院，高級研究助理
- 2008.10-2010.9 香港浸會大學中醫藥學院，研究助理
- 2006.10-2007.1 日本大阪大學產業科學研究所，訪問學者
- 2003.10-2005.4 香港浸會大學中醫藥學院，訪問學者

#### 主持研究項目

- 14) 2024.10-2027.10，血管微環境 S1PR1 調控肺泡屏障穩態機制及肺纖維化靶向新藥研發，澳門科學技術發展基金與國家科技部聯合科研資助項目 0161/2024/AMJ，**208.1 万澳門幣**，項目負責人
- 13) 2024.06-2027.06，基於藥食同源中藥協同增效關鍵技術的新一代抗衰老產品開發，澳門科學技術發展基金重點研發項目 0001/2023/AKP，**1,191.6 万澳門幣**，子課題：藥食同源中藥三萜皂苷類成分的深入挖掘分析及樣本庫建立，課題負責人
- 12) 2023.05-2026.05，基於鞘脂載體的新型 LNP-COVID-19 mRNA 疫苗遞送系統的研發，澳門科學技術發展基金項目 0137/2022/A3，**198.8 万澳門幣**，項目負責人

- 11) 2023.01-2023.12，中藥成分結構改造及抗腫瘤藥效研究，清華大學深圳國際研究生院省部共建腫瘤化學基因組學國家重點實驗室 2022 年度開放課題基金 SKLCO202210，**10 萬人民幣**，項目負責人
- 10) 2022.02-2025.02，一種強心甘類化合物及其合成方法與應用（中國內地發明專利申請），澳門科學技術發展基金專利資助項目 0011/2021/APT，**9,140 澳門幣**，項目負責人
- 9) 2022.08-2025.08，新型 VEGFR-2/Aurora A 雙靶點抑制劑的設計、合成及抗腫瘤活性研究，五邑大學港澳聯合研發基金項目 2021WGALH08，**10 萬人民幣**，澳方項目負責人
- 8) 2021.03-2023.03，中藥新藥“玉蝴蝶祛斑膏”的質量標準提升及臨床研究，澳門科學技術發展基金與廣東省科技廳聯合科研資助項目 0043/2020/AGJ，**104.8 万澳門幣**，項目負責人
- 7) 2020.09-2023.09，新型 SIP1 調節劑治療特發性肺纖維化的創新藥物研究，澳門科學技術發展基金與國家科技部聯合科研資助項目 0074/2019/AMJ，**210.1 万澳門幣**，項目負責人
- 6) 2020.04-2021.04，抗新型冠狀病毒肺炎的特效中藥的研發，澳門科學技術發展基金項目 0064/2020/A，**40.4 万澳門幣**，項目負責人
- 5) 2020.01-2023.01，融合人工智能和多組學技術開展川貝母等六種中藥的多維度質量控制研究，澳門科學技術發展基金重點研發項目 0023/2019/AKP，**800 万澳門幣**，子課題：基於計算機視覺技術的中藥材快速鑒別研究，課題負責人
- 4) 2019.06-2022.06，鹼性鞘磷脂脂質體的構建及其用於 siRNA 和化療藥物的聯合遞送研究，澳門科學技術發展基金 0004/2019/A1，**270 万澳門幣**，項目負責人

- 3) 2014.01-2018.01, Calotropis 屬藥用植物中具有低氧誘導因子-1(HIF-1) 抑制活性的 Cardenolide 類成分研究, 澳門科學技術發展基金 056/2013/A2, **304 万澳門幣**, 項目負責人
- 2) 2012.06-2014.11, 共價鍵修飾 IKK $\beta$  的 Epoxide 類中藥化學成分的 GSH 追蹤分離及其抗炎活性評價, 澳門科學技術發展基金 063/2011/A3, **202.2 万澳門幣**, 項目負責人
- 1) 2012.01-2012.12, ESI-TOF-MS 和 MALDI-TOF-MS 技術對黃烷醇和黃酮醇化合物與澱粉樣多肽結合作用的比較研究, 澳門基金會 (#0205), **8.5 万澳門幣**, 項目負責人

## 學術成果

代表性研究論文 (\*: 責任作者; #: 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, Qinhua; 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 supresses breast adenocarcinoma *via* inhibition of HIF-1 mediated glycolysis. *Biomedicine & Phamarmacotherapy*, **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.
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#### 學術機構及社會任職

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### 獎項

- ✓ 2020 年度澳門自然科學獎三等獎，藥物新靶標及中藥藥效物質的特徵性分子輪廓刻畫（項目編號 012/2020/AN），團體獎，排名第三，2020.10
- ✓ 2018/2019 學年度 澳科大「教學傑出獎」，2019.08
- ✓ 2013 年度「澳科大中銀學術研究優秀獎」，2014.09
- ✓ 2016 年度中珠醫療生命科學科研獎一等獎，2017.09