

## 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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**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的发现研究，已获澳门科学技术发展基金（FDCT）的项目资助。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* 和 *Organic Chemistry Frontiers* 等国际学术刊物上百余篇。迄今，已获 20 余项专利授权（5 项美国专利）。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十余项，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）；1 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。

## 教研领域

教学科目：

中药学博士/硕士研究生教学：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）。

中药学/药学博士研究生教学：专题导读。

中药学本科教学：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
- 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

### 学术成果

代表性研究论文 (\*: 责任作者; #: 第一作者)

- 1) 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.
- 2) 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.
- 3) 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.
- 4) 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.

- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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 <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**, *235*, 115603.
- 10) 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.
- 11) 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.
- 12) 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.

- 13) 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.
- 14) 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.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) 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.
- 19) 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.

- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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.

- 27) 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.
- 28) 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.
- 29) Liu, Qian-Bao<sup>#</sup>; Lu, Jing-Guang<sup>#</sup>; Jiang, Zhi-Hong\*; Zhang, Wei; Li, Wen-Jia; Qian, Zheng-Ming; **Bai, Li-Ping**\*. In situ chemical Profiling and imaging of cultured and natural *Cordyceps sinensis* by TOF-SIMS. *Frontiers in Chemistry*, **2022**, *10*, 862007.
- 30) Xiao, Riping<sup>#</sup>; Lei, Kaiwai<sup>#</sup>; Kuok, Hioha<sup>#</sup>; Deng, Wende; Zhuang, Yuxing; Tang, Yanqing; Guo, Zhengyang; Qin, Hongyan\*; **Bai, Li-Ping**\*; Li, Ting\*. Synthesis and identification of lithocholic acid 3-sulfate as ROR $\gamma$ t ligand to inhibit Th17 cell differentiation. *Journal of Leukocyte Biology*, **2022**, *112*, 835-843.
- 31) Wang, Yue; Wu, Xuan; Sun, Jianfeng; Wang, Caiyuan; Zhu, Guoyuan; **Bai, Li-Ping**; Jiang, Zhi-Hong\*; Zhang, Wei\*. Stripping voltammetric determination of cadmium and lead ions based on a bismuth oxide surface-decorated nanoporous bismuth electrode. *Electrochemistry Communications*, **2022**, *136*, 107233.
- 32) Kong, Lingkai; Hu, Xueping; **Bai, Li-Ping**\*. TBAI-Catalyzed Oxidative Coupling of Benzyl Ketones to Synthesize 2,3-Diary-1,4-Diketones in Water. *ACS OMEGA*, **2022**, *7*, 2337-2343.
- 33) Kong, Lingkai; Meng, Jieru; Tian, Wenyue; Liu, Jiazheng; Hu, Xueping; Jiang, Zhi-Hong; Zhang, Wei; Li, Yanzhong\*; **Bai, Li-Ping**\*. I<sub>2</sub>-Catalyzed Carbonylation of  $\alpha$ -Methylene Ketones to Synthesize 1,2-Diaryl Diketones and Antiviral Quinoxalines in One Pot. *ACS OMEGA*, **2022**, *7*, 1380-1394.
- 34) Chen, Fei-Long; Liu, Dong-Li; Fu, Jing; Yang, Ji; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong\*; Zhu Guo-Yuan\*. ( $\pm$ )-Atrachinenins A–C, three pairs of caged C<sub>27</sub> meroterpenoids from the rhizomes of *Atractylodes Chinensis*. *Chinese Journal of Chemistry*, **2022**, *40*, 460-466.

- 35) Guo, Yong<sup>#</sup>; Meng, Jieru<sup>#</sup>; Liu, Jiazheng; Xu, Ting; Zheng, Zhiyuan; Jiang, Zhi-Hong; **Bai Li-Ping\***. Synthesis and biological evaluation of honokiol derivatives bearing 3-((5-phenyl-1,3,4-oxadiazol-2-yl)methyl)oxazol-2(3H)-ones as potential viral entry inhibitors against SARS-CoV-2. *Pharmaceuticals*, **2021**, *14*, 885.
- 36) Guo, Yong; Enhua, Hou; Tingyu, Wen; Xiaoting, Yan; Meiyue, Han; **Bai, Li-Ping**; Xiangjing, Fu; Jifeng, Liu<sup>\*</sup>; Shangshang, Qin<sup>\*</sup>. Development of Membrane-Active Honokiol/Magnolol Amphiphiles as Potent Antibacterial Agents against Methicillin-Resistant *Staphylococcus aureus* (MRSA). *Journal of Medicinal Chemistry*, **2021**, *64*, 12903-12916.
- 37) Hu, Chun-Mei; Wang, Wen-Jing; Ye, Yuan-Na; Kang, Yu; Lin, Jing; Wu, Pan-Pan; Li, Dong-Li; **Bai, Li-Ping**; Xu, Xue-Tao; Li, Bao-Qiong; Zhang, Kun. Novel cinnamic acid moganol derivatives as potent  $\alpha$ -glucosidase and  $\alpha$ -amylase inhibitors: Synthesis, in vitro and in silico studies. *Bioorganic Chemistry*, **2021**, *116*, 105291.
- 38) Xu, Ting; Tian Wenyue; Zhang, Qian; Liu Jiazheng; Liu, Zhiyan; Jin, Jing; Guo, Yong<sup>\*</sup>; **Bai, Li-Ping\***. Novel 1,3,4-thiadiazole/oxadiazole-linked honokiol derivatives suppress cancer via inducing PI3K/Akt/mTOR-dependent autophagy. *Bioorganic Chemistry*, **2021**, *115*, 105257.
- 39) Liu, Xin; Fu, Jing; Shen, Rong-Sheng; Wu, Xu-Jia; Yang, Ji; **Bai, Li-Ping**; Jiang, Zhi-Hong<sup>\*</sup>; Zhu, Guo-Yuan<sup>\*</sup>. Linderanoids A–O, dimeric sesquiterpenoids from the roots of *Lindera aggregata* (Sims) Kosterm. *Phytochemistry*, **2021**, *191*, 112924.
- 40) Zheng, Zhiyuan<sup>#</sup>; Zhou, Zhongbo<sup>#</sup>; Zhang, Qiulong; Zhou, Xiaobo; Yang, Ji; Yang, Ming-Rong; Zhu, Guo-Yuan; Jiang, Zhi-Hong; Li, Ting; Lin, Qianyu; **Bai, Li-Ping\***. Non-classical Cardenolides from *Calotropis gigantea* Exhibit Anticancer Effect as HIF-1 Inhibitors. *Bioorganic Chemistry*, **2021**, *109*, 104740.
- 41) Li, Yan<sup>#</sup>; Zhang, Huixia<sup>#</sup>; Luo, Wendi; Lam, Christopher Wai Kei; Wang, Caiyun; **Bai, Li-Ping**; Wong, Vincent Kam Wai; Zhang, Wei<sup>\*</sup>; Jiang, Zhi-Hong<sup>\*</sup>. Profiling ribonucleotide and deoxyribonucleotide pools perturbed by remdesivir in human bronchial epithelial cells. *Frontiers in Pharmacology*, **2021**, *12*, 647280.
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- 43) Zhong Shan<sup>#</sup>; **Bai, Li-Ping**<sup>#</sup>; Liu, Xiaodong; Cai, Dieyi; Yau, Leefong; Huang, Chuqin; Zhang, Jiaqi; Lai, Kefang\*; Zhong, Nanshan. Cough inhibition activity of *Schisandra chinensis* in guinea pigs. *Journal of Medicinal Food*, **2021**, *24*, 348-357.
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- 46) Wang, Ye; Zheng, Zhong; Yuan, Yang; Wang, Mengdan; Guo, Zixia; Jiang, Yuan-Ye\*; **Bai, Li-Ping**\*; Li, Yanzhong\*. Cascade C-N Bond Cleavage of Amides / Intramolecular Amination Reactions: An Atom Economical Way to  $\alpha$ -Cabolin-4-ones. *Organic Chemistry Frontiers*, **2020**, *8*, 579-583.
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## 专利

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- 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

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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)

## 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