

Bai Li Ping



Academic Title: Professor

Faculty: State Key Laboratory of Mechanism and Quality of Chinese Medicine, Macau Institute for Applied Research in Medicine and Health

Position: Deputy director of Laboratory of Natural Products and Bioorganic and Medicinal Chemistry

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Prof. Bai received her Bachelor and Mphil degrees from Liaoning University of Traditional Chinese Medicine in 2001 and 2004, respectively. In 2008, she obtained her PhD degree from Hong Kong Baptist University. She has been in The Institute of Scientific and Industrial Research (SANKEN), Osaka University, Japan, as a visiting research scholar carrying out the G-quadruplex DNA-binding study of benzophenanthridine alkaloids from October 2006 to January 2007. After graduation, she joined School of Chinese Medicine, Hong Kong Baptist University as a research assistant in 2008, senior research assistant in 2009 and research associate in 2010. In September 2011, she moved to State Key Laboratory of Quality Research in Chinese Medicine (reorganized in January 2025 as the State Key Laboratory of Mechanism and Quality of Chinese Medicine), Macau University of Science and Technology as an assistant professor. In 2015, she achieved an accelerated promotion to an associate professor. In 2023, she was promoted to a full professor.

Prof. Bai's research fields include bioorganic chemistry, medicinal chemistry and natural medicinal chemistry. Her research focuses on the discovery and development of active ingredients in traditional Chinese medicines (TCMs); the discovery of anticancer and antifibrotic lead compounds;

the design and synthesis of innovative cationic sphingolipids and their application in RNA delivery systems (lipid nanoparticles, LNPs, etc.); and in-situ analytical technique for TCMs components. She had also been engaged in the project of Authentication of the 31 Species of Toxic and Potent Chinese Materia Medica by Microscopic Technique in Hong Kong.

She has published more than 100 research articles in SCI journals including *Archives of Pharmacal Research*, *Bioorganic Chemistry*, *European Journal of Medicinal Chemistry*, *Food Chemistry*, *Organic Letters*, *Journal of Natural Products*, *Journal of Organic Chemistry*, *Phytochemistry*, *Organic Chemistry Frontiers* and *International Immunopharmacology*. She has obtained 28 patent approvals (including 5 U.S. patent approval), and 1 Chinese invention patent has achieved technology transfer to HEC Cordyceps Co., Ltd. Hengqin Zhuhai. Since 2013, Prof. Bai achieved the Bank of China Excellent Research Award (2013), Excellent Teaching Award of Macau University of Science and Technology (2019), and Third Natural Science Award in Macao (2020). Her research was financially supported by Macao Science and Technology Development Fund, and The Macao Foundation. As a principal investigator, she has obtained more than 10 research grants including 2 FDCT Key R & D research projects (as Co-PI), 2 FDCT-MOST Joint Fund, and 1 FDCT-GDST Joint Fund. As a co-investigator, she also participated in research projects of “Guangdong-Hong Kong-Macao Joint Laboratory of Respiratory Infectious Diseases (2020-2022)” financially supported by Department of Science and Technology of Guangdong Province, “Class C Program of the Science and Technology of Shenzhen Guangdong-Hong Kong-Macao Greater Bay Area (2022)” funded by Shenzhen Municipal Committee of Science and Technology Innovation, and various projects supported by National Natural Science Foundation of China, and Natural Science Foundation of Guangdong Province. In addition, she also serves as an editorial board member of JOURNAL OF ANALYSIS AND TESTING.

Research Areas and Research Interests:

Research Area: Bioorganic and Medicinal Chemistry, Natural Medicinal Chemistry

Research Interest:

- 1) Discovery and Development of active ingredients from TCMs;
- 2) Discovery of anticancer and antifibrotic lead compounds;

- 3) Novel Sphingolipids' Synthesis and Application in Drug Delivery Systems (LNPs) for RNA Therapy
- 4) *In-situ* Analysis of TCMs by TOF-SIMS
- 5) Development of Android Platform App for Identification of Chinese Medicinal Materials Using Artificial Intelligence (Collaboration with Prof. CAI Zhanchuan's Team)

Research Projects as PI

- 14) 2024.10-2027.10, The Mechanism Study of S1PR1 of Vascular Niche on Maintaining the Homeostasis of Pulmonary Alveolar Barrier and Research & Development of Targeted Drugs for Pulmonary Fibrosis, FDCT-MOST Joint Fund (FDCT project number 0161/2024/AMJ), MOP 2,081,000.00, PI
- 13) 2024.06-2027.06, Development of Next-Generation Anti-Aging Products Based on Synergistic Enhancement Techniques with Edible TCMs, FDCT Key R & D research project (FDCT project number 0001/2023/AKP), MOP 11,916,000.00, Co-PI. (PI of the first subproject on "In-depth analysis and sample library establishment of triterpene saponins from edible traditional Chinese medicines")
- 12) 2023.05-2026.05, Development of novel LNP- COVID-19 mRNA vaccine delivery system based on sphingolipid carrier, Macao Science and Technology Development Fund (FDCT project number 0137/2022/A3), MOP 1,988,000.00, PI
- 11) 2023.01-2023.12, Structural Modification of Components from Traditional Chinese Medicine and Their Antitumor Effects, Open fund project of State Key Laboratory of Oncology Chemogenomics Jointly-established by Ministry and Commission, Tsinghua Shenzhen International Graduate School, (grant number: SKLCO202210), RMB 100,000.00, PI
- 10) 2022.02-2025.02, A cardiac glycoside, its synthesis method and application, Chinese mainland invention patent application project of Macao Science and

Technology Development Fund, (grant number: 0011/2021/APT), MOP 9,140.00, PI

- 9) 2021.03-2023.03, Improvement of Quality Standard and Clinical Research of the new Chinese Patent Medicine “Jade Butterfly Freckle Removal Cream”, FDCT-GDST Joint Fund (FDCT project number 0043/2020/AGJ), MOP 1,048,000.00, PI
- 8) 2022.08-2025.08, Design, synthesis and antitumor activity of novel VEGFR-2/ Aurora A dual-target inhibitors, Wuyi University-Hong Kong-Macau Joint R & D Fund Project (2021WGALH08), RMB 100,000.00, PI of Macau
- 7) 2020.09-2023.09, Innovative drug research of novel S1P1 modulator for the treatment of idiopathic pulmonary fibrosis, FDCT-MOST Joint Fund (FDCT project number 0074/2019/AMJ), MOP 2,101,000.00, PI
- 6) 2020.04-2021.04, Research and development of specially-effective Chinese medicines against novel coronavirus pneumonia, Macao Science and Technology Development Fund (FDCT project number 0064/2020/A), MOP 404,000.00, PI
- 5) 2020.01-2023.01, Study on multi-dimensional quality control of six Chinese herbal medicines by combining artificial intelligence and multi-omics technologies, FDCT Key R & D research project (FDCT project number 0023/2019/AKP), MOP 8,000,000.00, Co-PI. (PI of the first subproject on “Intelligent Identification of Chinese Medicinal Materials Using Computer Vision Technology”)
- 4) 2019.06-2022.06, Construction of Alkaline Sphingomyelin-based Cationic Liposome and Application in Co-delivery of siRNA and Chemotherapy Drug, Macao Science and Technology Development Fund (FDCT project number 0004/2019/A1), MOP 2,700,000.00, Principal Investigator
- 3) 2014.01-2018.01, Chemical Studies on Cardenolides in *Calotropis* Plants and Evaluation of Their Hypoxia Inducible Factor-1 (HIF-1) Inhibitory Activity, Macao Science and Technology Development Fund (FDCT project number 056/2013/A2), MOP 3,040,000.00, Principal Investigator

- 2) 2012.06-2014.11, GSH-guided isolation of IKK β -modifying Epoxides from Chinese medicinal herbs and evaluation of their anti-inflammatory activities, Macao Science and Technology Development Fund (FDCT project number 063/2011/A3), MOP 2,022,000.00, Principal Investigator
- 1) 2012.01-2012.12, Comparative study of flavanols and flavonols binding to amyloid beta peptide by ESI-TOF-MS and MALDI-TOF-MS techniques, Macao Foundation (#0205), MOP 85,000.00, Principal Investigator

Teaching Subjects:

- 1) Postgraduates course: Prospect and Progress in Chinese Medicine Research (Coordinator), Advances in Translational Pharmaceutical Sciences (Coordinator), Selected Topics of Chemistry of Chinese Materia Medica (Coordinator), Experimental Techniques in Chemistry of Chinese Materia Medica (Coordinator), etc.
- 2) Undergraduates course: Chemistry of Chinese Materia Medica, Experiments of Chemistry of CMM (Coordinator), Honor Projects (Coordinator 2016-2025).

Academic Qualifications

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| 2008.9 | Ph.D., Hong Kong Baptist University, Hong Kong |
| 2004.7 | M. Sc., Liaoning University of Traditional Chinese Medicine, Shenyang, China |
| 2001.7 | B. Sc., Liaoning University of Traditional Chinese Medicine, Shenyang, China |

Work Experience

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|----------------|---|
| 2025.1-present | Professor, State Key Laboratory of Mechanism and Quality of Chinese Medicine, Macau University of Science and Technology |
| 2023.7-2024.12 | Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology |
| 2015.7-2023.6 | Associate Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology |
| 2011.9-2015.6 | Assistant Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology |

2010.10-2011.8	Research Associate, School of Chinese Medicine, Hong Kong Baptist University
2008.10-2010.9	Research Assistant and Senior Research Assistant, School of Chinese Medicine, Hong Kong Baptist University
2006.10-2007.1	Visiting Research Scholar, The Institute of Scientific and Industrial Research (SANKEN), Osaka University, Japan
2003.10-2005.4	Visiting Research Scholar, School of Chinese Medicine, Hong Kong Baptist University

Representative Publications (*: Corresponding authors; #: Co-first authors)

- 1) Yu, Qi-Hua, Liu, Zhiyan, Liu Jiazheng; **Bai, Li-Ping***. Recent advances of piperine and its derivatives as potential anticancer agents. *RSC Medicinal Chemistry*, **2026**, in press.
- 2) Tian, Wenyue; Liu, Zhiyan; Liu, Jiazheng; Kong, Lingkai, Qin, Hongyan; Zhu, Guo-Yuan; Zhang, Wei; Jin, Jing; Wang, Xiaojian; Jiang, Zhi-Hong*; **Bai, Li-Ping***. An indoloquinolinone 3a alleviates lipopolysaccharide-induced acute lung injury by modulating the NF- κ B and AMPK/Nrf2 signaling pathways. *International Immunopharmacology*, **2026**, *174*, 116398.
- 3) Wang, Can-Can; Bao, Meng-Yu; Li, Hui-Ying; Xiong, Hao-Ming; Ng, Kei-Fong; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong*; Zhu, Guo-Yuan*. Isodonoids A–L: *Ent*-kauranoid diterpenoid-flavanone conjugates from *Isodon rubescens*. *Phytochemistry*, **2026**, *249*, 114954.
- 4) Bao, Meng-Yu; Wang, Can-Can; Cao, Dai; Xiong, Hao-Ming; **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong; Liu, Yu-Hong*; Zhu, Guo-Yuan*. Oridonin downregulates PD-L1 expression and promotes anti-tumor immunity via inhibiting NLRP3 and STAT3. *International Immunopharmacology*, **2026**, *175*, 116423.
- 5) Hao, Mengyao; Tang, Guodong; Zhou, Enjia; Fu, Rong; Wang, Mingjin; Jiang, Huimin; Chen, Xiaoguang; **Bai, Li-Ping**; Lv, Xiaoxi*; Jin, Jing*. S1PR3 Inhibition in alveolar epithelial cells alleviates pulmonary fibrosis by enhancing alveolar barrier function. *Respiratory Research*, **2026**, *27*, 15.
- 6) Wang, Yue; Yu, Fei; Liu, Qing-Hua; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Guo, Ke-Ying; Jiang, Zhi-Hong*; Zhang, Wei*. A novel electrochemical approach for sensitive and

simultaneous detection of 7,8-dihydro-8-oxoadenine and 2-hydroxyadenine based on a screen-printed carbon electrode modified with carbon-encapsulated Fe₃O₄. *Talanta*, **2026**, *297*, 128584.

- 7) Li, Hui-Ying; Bao, Meng-Yu; Xiong, Hao-Ming; Wang, Can-Can; **Bai, Li-Ping**; Zhang, Wei; Chen, Cheng-Yu; Jiang, Zhi-Hong*; Zhu, Guo-Yuan*. Suspensaditerpenes A–Q, anti-inflammatory labdane and nor-labdane diterpenoids from the seeds of *Forsythia suspense*. *Phytochemistry*, **2026**, *242*, 114688.
- 8) Liu, Qing-Hua; Yang, Liu; Wang, Yue; Xiong, Hao-Ming; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Zhi-Hong*; Zhang, Wei*. Oligosaccharide mapping analysis through UPLC-Orbitrap-HRMS and enzymatic hydrolysis from *Polygonatum odoratum* (Mill.) Druce. *Carbohydrate Polymers*, **2026**, *375*, 124765.
- 9) Wang, Yue; Sun, Jian-Feng; Fu, Heng-Tao; Shao, Zi-Jun; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Zhi-Hong*; Zhang, Wei*. Chitosan-Functionalized Magnetic Graphene Oxide Nanocomposites Enable High-Purity mRNA Enrichment to Avoid False Positives in LC-MS/MS Modification Profiling. *Analytical Chemistry*, **2026**, *98*, 4036-4049.
- 10) Yu, Fei; Wang, Yue; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Guo, Keying; Jiang, Zhi-Hong*; Zhang, Wei*. A novel and sensitive trefoil-structured biosensor based on nanoporous gold for simultaneous determination of microRNA-21 and microRNA-16. *Biosensors & Bioelectronics*, **2025**, *272*, 117093.
- 11) Yang, Ziwei; Zhou, Mingyue; Yin, Tianpeng; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Zhi-Hong*; Zhang, Wei*. Functionalized Carbon Dots With Intrinsic Wnt/ β -Catenin Inhibition to Synergistically Promote 5-Fluorouracil Chemotherapy. *International Journal of Nanomedicine*, **2025**, *20*, 1951-1964.
- 12) Liu, Xiao-Mei; Ren, Wen-Jing; Lyu, Hao-Yuan; Chen, Cheng-Yu; Pan, XH, **Bai, Li-Ping**; Zhang, Wei; Jiang, Zhi-Hong*; Zhu, Guo-Yuan*. Verbenalinosides A and B, Two Iridoid-Phenylethanoid Glycoside Conjugates from *Verbena officinalis* and Their Hepatoprotective Activity. *ACS Omega*, **2025**, *10*, 9684-9690.
- 13) Li, Hui-Ying; Bao, Meng-Yu; Xiong, Hao-Ming; Wang, Can-Can; **Bai, Li-Ping**; Zhang, Wei; Chen, Cheng-Yu; Jiang, Zhi-Hong*; Zhu, Guo-Yuan*. Forsyditerpenes A–O, CC-type

clerodane and aromatic abietane diterpenoids with anti-inflammatory activities from the seeds of *Forsythia suspensa*. *Fitoterapia*, **2025**, *185*, 106675.

- 14) Shao, Zi-Jun; Wang, Yue; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Qian, Zheng-Ming; Jiang, Zhi-Hong*; Zhang, Wei*. Chitosan-modified magnetic graphene oxide nanoassembly: a dual-functional platform for targeted protein adsorption and natural bioactive ingredient screening. *Bioorganic Chemistry*, **2025**, *163*, 108787.
- 15) Yang, Zi-Wei; Yin, Tianpeng; Wang, Cai-Yun; Zhu, Guo-Yuan; **Bai, Li-Ping**; Jiang, Zhi-Hong*; Zhang, Wei*. Biomass-derived carbon dots with pharmaceutical activity as temozolomide carrier for synergistic treatment of melanoma. *Bioorganic Chemistry*, **2025**, *164*, 108919.
- 16) Fu, Heng-Tao; Sun, Jian-Feng; Shao, Zi-Jun; Wang, Cai-Yun; **Bai, Li-Ping**; Zhu, Guo-Yuan; Jiang, Zhi-Hong*; Zhang, Wei*. Nanoplastic-induced NAT10/ac4C axis drives both oxidative stress and chemoresistance. *Journal of Hazardous Materials*, **2025**, *499*, 140193.
- 17) Sun, Wenxia; Zhao, Yichen; Su, Hongna; Li, Jiayao; Ma, Hao; Luo, Hanyue; Liu, Kunying; Mou, Lu; Liang, Pan; **Bai, Li-Ping**, Luo, Pei*; Zhang, Zhifeng*. Synthesis of decenylsuccinic anhydride-modified hyaluronic acid and its colloidal self-assembly into plumbagin-loaded amphiphilic micelles. *International Journal of Biological Macromolecules*, **2025**, *334*, 148971.
- 18) 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.
- 19) 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.
- 20) 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.

- 21) 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.
- 22) 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- β Inhibition Activity. *Plants*, **2024**, *13*, 1074.
- 23) 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**, *20*, 7686-7697.
- 24) 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.
- 25) 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.
- 26) 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.
- 27) 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.

- 28) 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 ¹H NMR with global spectral deconvolution approach for quality assessment of natural and cultured *Cordyceps sinensis*. *Journal of Pharmaceutical and Biomedical Analysis*, **2023**, 235, 115603.
- 29) 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.
- 30) Zhao, Yue; Jin, Hua; Lei, Kawai; **Bai, Li-Ping**; Pan, Hudan; Wang, Caiyuan; Zhu, Xiaoming; Tang, Yanqing; Guo, Zhengyang; Cai, Jiye; Li, Ting*. Oridonin inhibits inflammation of epithelial cells via dual-targeting of CD31 Keap1 to ameliorate acute lung injury. *Frontiers in Immunology*, **2023**, 14, 1163397
- 31) 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.
- 32) 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 Acetamidiprid-induced Oxidative Damage to tRNA in Human Cells Based on Oxidized Nucleotide and tRNA Profiling. *Environment International*, **2023**, 178, 108038.
- 33) 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.
- 34) 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.
- 35) 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.

- 36) 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.
- 37) Zhang, Hui-Xia[#]; Qin, Jian-Feng[#]; 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.
- 38) Liu, Jiazheng[#]; Meng, Jieru[#]; Li, Runfeng[#]; 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.
- 39) Zheng, Zhiyuan[#]; Xu, Ting[#]; 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.
- 40) 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.
- 41) Yin, Tianpeng; Yu, Yi; Liu, Qinghua; Zhu, Guoyuan; **Bai, Li-Ping**; Zhang, Wei*; Jiang, Zhi-Hong*. 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*, **2022**, *115*, 104975.
- 42) 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.

- 43) 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.
- 44) 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.
- 45) 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.
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Medicines in Hong Kong. Chinese Medicine Merchants Association Ltd., Hong Kong, 2005.

Membership of Academic Associations and Community Service

- 1) Chinese Chemical Society
- 2) Inaugural Conference of the Specialty Committee on Manchu Medicine of the World Federation of Chinese Medicine Societies (Executive member of the council)
- 3) Editorial board member of JOURNAL OF ANALYSIS AND TESTING.

Academic Awards

- 1) The 2013 Bank of China (BOC) Excellent Research Award (Bank of China Macau Branch)
- 2) The 2016/2017 Zhongzhu Awards for Life Science Recognizing First Prize in Research (Zhongzhu Healthcare Holding Co., Ltd.)
- 3) “Excellent Teacher” in the 11th Teaching Excellence Award for the Academic Year 2018/2019
- 4) 2020 Macao Natural Science Award (3rd Prize, 3/5), Characteristic Molecular Profiling for Discovering New Drug Targets and Bioactive TCM Components. (Project No. 012/2020/AN), 2020.10
- 5) Gold Medal (8/11) of The 50th International Exhibition of Inventions of Geneva (held April 9–13, 2025) awarded for Establishment of DNA Replication-Initiation Proteins (DRIPs) as Novel Anticancer Targets and Development of First-in-Class Broad-Spectrum and Highly Efficacious Anticancer Drug Candidates Targeting DRIPs.