**Bai Li Ping**

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Dr. Bai received her Bachelor and Master degrees from Liaoning University of Traditional Chinese Medicine in 2001 and 2004, respectively. She obtained her PhD degree from Hong Kong Baptist University in 2008. 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, Macau University of Science and Technology as an assistant professor. She was promoted to be an associate professor in July 2015.

Dr. Bai’s research fields include bioorganic chemistry, and natural products chemistry. Her research focuses on bioactive ingredients in traditional Chinese medicines (TCM), structural modification of bioactive small molecules, and pharmacodynamic evaluations, design and synthesis of novel sphingolipids, and their application in the field of pharmaceutical preparations, and quality standards of TCM. She was also 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 research papers in SCI journals including *European Journal of Medicinal Chemistry*, *Organic Letters*, *Bioorganic Chemistry, Journal of Natural Products, Journal of Organic Chemistry,* *Biomedicine & Pharmacotherapy*, *Pharmaceuticals*, *Frontiers in Plant Science*, and *Frontiers in Chemistry*. She has obtained 18 international patent approvals (including 5 U.S. patent approval) so far. Her research was financially supported by Macao Science and Technology Development Fund, and The Macao Foundation. As a co-investigator, she also participated in research projects financially supported by Faculty Research Grants from Hong Kong Baptist University, National Natural Science Foundation of China, and Natural Science Foundation of Guangdong Province.

***Teaching and Research Areas*:**

Teaching subjects: Natural Products Chemistry, Prospect and Progress in Chinese Medicine Research, Selected Topics of Chemistry of Chinese Materia Medica, Experimental Techniques in Natural Products Chemistry Research; Honor Project

Research Areas: Bioorganic and Medicinal Chemistry, Natural Products Chemistry

***Academic Qualifications***

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

 ***Teaching Experience***

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| 2015.7-present | 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. 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.
2. 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**, in press.
3. 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,DOI: 10.3389/fpls.2022.988655.
4. Zheng, Zhiyuan#; Xu, Ting#; 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.
5. 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.
6. Hao, Mengyao; Fu, Rong; Tai, Juan; Yuan, Xia; Wang, Mingjin; Jiang, Huimin; Ji, Ming; Lai, Fangfang; Xue, Nina; Chen, Yang; Rao, Shuan; **Bai, Li-Ping**; Zhu, Yi-Zhun; Lv, Xiao-Xi\*; 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*, **2022**, in press, <https://doi.org/10.1016/j.apsb.2022.10.006>.
7. 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.
8. 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**, doi: 10.1007/s12272-022-01401-6.
9. 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.
10. 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.
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12. Kong, Lingkai#; Tian, Wenyue#; 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.
13. 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.
14. Xu, Ting#; Meng, Jieru#; 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 α-glucosidase and SARS-CoV-2 entry inhibitors, *Bioorganic and Medicinal Chemistry*, **2022**, 67, 116838.
15. Liu, Qian-Bao#; Lu, Jing-Guang#; 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, doi:10.3389/fchem.2022.862007.
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19. Kong, Lingkai; Meng, Jieru; Tian, Wenyue; Liu, Jiazheng; Hu, Xueping; Jiang, Zhi-Hong; Zhang, Wei; Li, Yanzhong\*; **Bai, Li-Ping**\*. I2-Catalyzed Carbonylation of α-Methylene Ketones to Synthesize 1,2-Diaryl Diketones and Antiviral Quinoxalines in One Pot. *ACS OMEGA*, **2022**, 7, 1380-1394.
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21. Guo, Yong#; Meng, Jieru#; 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.
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25. 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*, 2021, 191, 112924.
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31. Yang, Ji; Liu, Xin; Fu, Jing; Lyu, Hao-Yuan; **Bai, Li-Ping**; Jiang, Zhi-Hong\*; Zhu, Guo-Yuan\*. Calycindaphines A‒J, Daphniphyllum alkaloids from the roots of *Daphniphyllum calycinum*. *RSC Advances*, **2021**, 11, 9057-9066.
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37. Liu, Meixian; Li, Na; Zhang, Yida; Zheng, Zhiyuan; Zhuo, Yue; Sun, Baoqing; **Bai**, **Li-Ping;** Zhang, Mingming; Guo, Mingquan; Wu, Jianlin\*. Characterization of Covalent Protein Modification by Triclosan in vivo and in vitro via Three-Dimensional Liquid Chromatography-Mass Spectrometry: New Insight into Its Adverse Effects. *Environment International* **2020**, 136, 105423.
38. Wang, Zhihua; Wu, Wenbo; Guan, Xiangchen; Guo, Shuang; Li, Chaowen; Niu, Ruixue; Gao, Jie; Jiang, Min; **Bai, Li-Ping**; Leung, Elaine Laihan; Hou, Yuanyuan\*; Jiang, Zhi-Hong\*; Bai,Gang\*. Multiomic analysis revealed 20(s)-protopanaxatriol promotes the binding of P53 and DNA to regulate the antitumor network. *Acta Pharmaceutica Sinica B*, 2020,*10*(6), 1020-1035.
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***Books***

1. **Li-Ping Bai** (Assistant Editor). in L. He & Z.-H. Jiang (Editor) Resources Chemistry of Natural Products (天然產物資源化學). Science Press, Beijing, 2008.
2. **Li-Ping Bai** (Assistant Editor). in Z.Z. Zhao & Y.S. Li (Editor) Authentication of One Hundred of Chinese Medicines. Wan Li Book Co., Ltd., Hong Kong, 2008.
3. **Li-Ping Bai** (Assistant Editor). in Z.Z. Zhao & P.G. Xiao (Editor) Encyclopedia of Medicinal Plants (Traditional Chinese Version), Volumes 1-2. Hong Kong Jockey Club Institute of Chinese Medicine, Hong Kong, 2006. [China Outstanding Science Book Prize (for imported books)].
4. **Li-Ping Bai** (Assistant Editor). in Z.Z. Zhao & Y.S. Li (Editor) Easily Confused Chinese Medicines in Hong Kong. Chinese Medicine Merchants Association Ltd., Hong Kong, 2005.

***Research Projects***

1) 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

2) 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

3) 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

4) 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

6) 2019.06-2022.06, Construction of Alkaline Spingomyelin-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

7) 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

8) 2012.06-2014.11, GSH-guided isolation of IKKβ-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

9) 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 Fundation (#0205), MOP 85,000.00, Principal Investigator

***Membership of Academic Associations and Community Service***

1. Chinese Chemical Society
2. Inaugural Conference of the Specialty Committee on Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies (Executive member of the council)
3. Inaugural Conference of the Specialty Committee on Manchu Medicine of the World Federation of Chinese Medicine Societies (Executive member of the council)
4. Macau International Collaboration Alliance for Rheumatology Research (Executive Council Member of the First Council)

***Awards***

1) 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

2) “Excellent Teacher” in the 11th Teaching Excellence Award for the Academic Year 2018/2019

3) The 2013 Bank of China (BOC) Excellent Research Award (Bank of China Macau Branch)

4) The 2016 Zhongzhu Awards for Life Science Recognizing First Prize in Research (Zhongzhu Healthcare Holding Co., Ltd.)

5) Excellent Poster Award in 29th Annual Congress of Chinese Chemical Society (4-7th Aug. 2014 in Beijing China)