

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
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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的發現研究，已獲澳門科學技術發展基金（FDCT）的項目資助。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* 和 *Organic Chemistry Frontiers* 等國際學術刊物上百餘篇。迄今，已獲 20 餘項專利授權（5 項美國專利）。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十餘項，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）；1 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。

教研領域

教學科目：

中藥學博士/碩士研究生教學：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）。

中藥學/葯學博士研究生教學：專題導讀。

中藥學本科教學：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
- 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 遼寧中醫葯大學生葯學碩士學位

2001.7 遼寧中醫葯大學中藥學（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

學術成果

代表性研究論文 (*: 責任作者; #: 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- β 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 ^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.
- 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[#]; 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.
- 18) 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.
- 19) 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.

- 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*. 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.
- 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[#]; 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.

- 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[#]; 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.
- 29) 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.
- 30) Xiao, Riping[#]; Lei, Kaiwai[#]; Kuok, Hioha[#]; 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 γ 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***. 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.
- 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 C₂₇ meroterpenoids from the rhizomes of *Atractylodes Chinensis*. *Chinese Journal of Chemistry*, **2022**, *40*, 460-466.

- 35) 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.
- 36) Guo, Yong; Enhua, Hou; Tingyu, Wen; Xiaoting, Yan; Meiyue, Han; **Bai, Li-Ping**; Xiangjing, Fu; Jifeng, Liu^{*}; Shangshang, Qin^{*}. 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 α -glucosidase and α -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^{*}; **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^{*}; Zhu, Guo-Yuan^{*}. Linderanoids A–O, dimeric sesquiterpenoids from the roots of *Lindera aggregata* (Sims) Kosterm. *Phytochemistry*, **2021**, *191*, 112924.
- 40) Zheng, Zhiyuan[#]; Zhou, Zhongbo[#]; 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[#]; Zhang, Huixia[#]; Luo, Wendi; Lam, Christopher Wai Kei; Wang, Caiyun; **Bai, Li-Ping**; Wong, Vincent Kam Wai; Zhang, Wei^{*}; Jiang, Zhi-Hong^{*}. Profiling ribonucleotide and deoxyribonucleotide pools perturbed by remdesivir in human bronchial epithelial cells. *Frontiers in Pharmacology*, **2021**, *12*, 647280.
- 42) Liu, Xin; Yang, Ji; Fu, Jing; Xu, Pei-Lin; Xie, Tang-Gui; **Bai, Li-Ping**; Jiang, Zhi-Hong^{*}; Zhu, Guo-Yuan^{*}. Monoterpene-Flavonoid Conjugates from *Sarcandra glabra* and Their Autophagy

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- 45) 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.
- 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 α -Cabolin-4-ones. *Organic Chemistry Frontiers*, **2020**, *8*, 579-583.
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- 48) Li, Zheng; Qian, Zengting; Chen, Hongwei; Zhang, Huixia; Li, Yan; Wang, Caiyun; **Bai, Li-Ping**; Zhang, Wei*; Jiang, Zhi-Hong*. Similarity and specificity of traditional Chinese medicine formulas for the management of coronavirus disease 2019 and rheumatoid arthritis based on integrated network pharmacology. *ACS Omega*, **2020**, *5*, 30519.
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