

白丽萍



职称： 教授

学院/部门： 中药机制与质量全国重点实验室， 澳门药物及健康应用研究院

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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 年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（2025 年 1 月重组：中药机制与质量全国重点实验室），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。

白教授的研究领域包括生物有机化学与药物化学和天然药物化学。主要从事中药活性成分发现与转化研究；抗癌和抗纤维化药物分子的发现研究；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；中药成分的原位分析技术研究等。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 *Archives of Pharmacal Research*, *European Journal of Medicinal Chemistry*, *Bioorganic Chemistry*, *Food Chemistry*, *Organic Letters*, *Journal of Natural Products*, *Journal of Organic Chemistry*, *Phytochemistry*, *Organic Chemistry Frontiers* 和 *International Immunopharmacology* 等国际学术刊物上百余篇。迄今，已获 28 项专利授权（含 5 项美国专利）。其中，1 项中国发明专利已实现技术转让于药企。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）等资助的研究项目 10 余项，包括 2 项 FDCT 重点研发项目（课题负责人）；2 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。此外，还担任中文核心期刊《分析测试学报》编委等学术职务。

研究领域：生物有机与药物化学；天然药物化学

研究方向：

- 中药活性成分发现与转化研究
- 抗癌/抗纤维化等活性先导化合物发现与创新药物研究
- 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
- 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鉴别研究（与计算器视觉领域专家蔡占川教授团队的合作研究）

主持研究项目

14) 2024.10-2027.10，血管微环境 S1PR1 调控肺泡屏障稳态机制及肺纤维化靶向新药研发，澳门科学技术发展基金与国家科技部联合科研资助项目 0161/2024/AMJ，208.1 万澳门币，项目负责人

13) 2024.06-2027.06，基于药食同源中药协同增效关键技术的新一代抗衰老产品开发，澳门科学技术发展基金重点研发项目 0001/2023/AKP，1,191.6 万澳门币，子课题：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，课题负责人

- 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
- 11) 2023.01-2023.12, 中药成分结构改造及抗肿瘤药效研究, 清华大学深圳国际研究生院 省部共建肿瘤化学基因组学国家重点实验室 2022 年度开放课题基金 SKLCO202210, 10 万人民币, 项目负责人
- 10) 2022.02-2025.02, 一种强心苷类化合物及其合成方法与应用 (中国内地发明专利申请), 澳门科学技术发展基金专利资助项目 011/2021/APT, 9,140 澳门币, 项目负责人
- 9) 2022.08-2025.08, 新型 VEGFR-2/Aurora A 双靶点抑制剂的设计、合成及抗肿瘤活性研究, 五邑大学港澳联合研发基金项目 2021WGALH08, 10 万人民币, 澳方项目负责人
- 8) 2021.03-2023.03, 中药新药“玉蝴蝶祛斑膏”的质量标准提升及临床研究, 澳门科学技术发展基金与广东省科技厅联合科研资助项目 0043/2020/AGJ, 104.8 万澳门币, 项目负责人
- 7) 2020.09-2023.09, 新型 S1P1 调节剂治疗特发性肺纤维化的创新药物研究, 澳门科学技术发展基金与国家科技部联合科研资助项目 0074/2019/AMJ, 210.1 万澳门币, 项目负责人
- 6) 2020.04-2021.04, 抗新型冠状病毒肺炎的特效中药的研发, 澳门科学技术发展基金项目 0064/2020/A, 40.4 万澳门币, 项目负责人
- 5) 2020.01-2023.01, 融合人工智能和多组学技术开展川贝母等六种中药的多维度质量控制研究, 澳门科学技术发展基金重点研发项目 0023/2019/AKP, 800 万澳门币, 子课题负责人
- 4) 2019.06-2022.06, 碱性鞘磷脂脂质体的构建及其用于 siRNA 和化疗药物的联合递送研究, 澳门科学技术发展基金 0004/2019/A1, 270 万澳门币, 项目负责人

- 3) 2014.01-2018.01, Calotropis 属药用植物中具有低氧诱导因子-1(HIF-1) 抑制活性的 Cardenolide 类成分研究, 澳门科学技术发展基金 056/2013/A2, 304 万澳门币, 项目负责人
- 2) 2012.06-2014.11, 共价键修饰 IKK β 的 Epoxide 类中药化学成分的 GSH 追踪分离及其抗炎活性评价, 澳门科学技术发展基金 063/2011/A3, 202.2 万澳门币, 项目负责人
- 1) 2012.01-2012.12, ESI-TOF-MS 和 MALDI-TOF-MS 技术对黄烷醇和黄酮醇化合物与淀粉样多肽结合作用的比较研究, 澳门基金会 (#0205), 8.5 万澳门币, 项目负责人

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)。

转化药物科学博士研究生教学: 转化药物科学研究进展 (课程统筹)。

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 2016-2025)。

学历

2008.9 香港浸会大学哲学博士学位

2004.7 辽宁中医药大学大学生药学硕士学位

2001.7 辽宁中医药大学中药学 (英语班, 五年制) 学士学位

教学工作经历:

2025.01-今	澳门科技大学中药机制与质量全国重点实验室, 教授
2023.07-2024.12	澳门科技大学中药质量研究国家重点实验室, 教授
2015.07-2023.06	澳门科技大学中药质量研究国家重点实验室, 副教授
2011.09-2015.06	澳门科技大学中药质量研究国家重点实验室, 助理教授

2010.10-2011.08	香港浸会大学中医药学院，高级研究助理
2008.10-2010.09	香港浸会大学中医药学院，研究助理
2006.10-2007.01	日本大阪大学产业科学研究所，访问学者
2003.10-2005.04	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) 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.
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专利

- 1) 金晶, 白丽萍, 郝梦瑶、刘芝延等。一种三氟甲基苄醚取代的氨基酸类衍生物、其制法和用途。中国发明专利号 ZL202311189621.4, 授权日 2026 年 3 月 20 日。
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- 5) 姜志宏, 白丽萍, 许婷, 周小波, 郭勇。鞘脂类化合物、含有鞘脂类化合物的脂质体和应用。中国发明专利号 ZL202210358677.7, 申请日 2022 年 4 月 7 日, 授权公告号 CN114933569 B, 授权公告日 2024 年 7 月 23 日; PCT 国际申请号 PCT/CN2022/098765, 申请日 2022 年 6 月 14 日。
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- 8) **白丽萍**, 郑植元, 周小波, 朱国元, 姜志宏。一种强心苷类化合物及其合成方法与应用。中国发明专利 ZL202010913582.8, 授权日 2021 年 8 月 3 日。
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- 30) 蔡占川, 姜志宏, 叶贲, 吕沛伦, 张雨晗, 刘家正, 兰霆, **白丽萍**。图像识别方法、电子设备及存储介质。中国发明专利申请号 202210346579.1, 申请日 2022 年 4 月 2 日, 申请公布号 CN 114821554 A, 申请公布日 2022 年 7 月 29 日。
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- ✓ 第 50 届日内瓦国际发明展金奖，建立 DNA 复制起始蛋白质 (DRIPs) 作为新型抗癌靶标，并开发首创靶向 DRIPs 之广谱高效候选抗癌药物，团体奖，排名第八，2025.04