



羅培

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羅培博士於 2003 年和 2008 年分別獲得四川大學華西藥學院藥學學士和藥理學博士學位，其後在香港浸會大學中醫藥學院從事博士後研究（2008 年 12 月至 2011 年 8 月）。2011 年 9 月，她加入澳門科技大學中藥品質研究國家重點實驗室和澳門藥物及健康應用研究院擔任助理教授。2017 年 7 月晉升為副教授，2024 年 7 月晉升為教授。

羅培博士在心血管藥理學和中藥新產品開發方面經驗豐富。她最近的研究重點是缺血性心臟病，線粒體動力學與缺血再灌注損傷的串擾、線粒體裂變調控的心臟保護作用、人參，黃芪，黃精等中藥材來源活性成分對線粒體的新機制、化合物靶向線粒體融合/分裂的發現。迄今為止，她已獲得多項澳門特別行政區科學技術發展基金（FDCT）和澳門特別行政區澳門基金會的研究資助，包括 1 項 FDCT-國家自然科學基金聯合資助項目和 1 項 FDCT-廣東省科技廳聯合資助項目。她在 SCI/SCIE 期刊上發表了 100 多篇同行評審論文，包括 Journal of Controlled Release、Mitochondrion、Carbohydrate Polymers、Pharmacological Research、Journal of Pharmacology and Experimental Therapeutics、Journal of Ethnopharmacology、Phytomedicine。在中文核心期刊發表同行評議論文 20 篇，發表會議摘要或海報 50 餘篇。羅博士因開發用於線粒體動力學的活細胞圖像方法、鑒定具有抗缺血作用的新型人參皂苷而獲得 5 項國際專利（美國和澳大利亞），以及 5 項中國專利用於治療缺血性心臟病的新葯的發現。

學歷

- 2003- 2008 四川大學華西藥學院，藥理學博士，四川省成都市，中國
- 1999 - 2003 四川大學華西藥學院，藥學學士，四川省成都市，中國

Teaching Experience

- 2024,7 – present 澳門科技大學中藥質量研究國家重點實驗室，教授
- 2017,7 – 2024.6 澳門科技大學中藥質量研究國家重點實驗室，副教授
- 2011,9 – 2017.6 澳門科技大學中藥質量研究國家重點實驗室，助理教授
- 2008,11 - 2011,8 香港浸會大學中醫藥學院 博士後研究員

教學和研究領域

主講科目：藥理與毒理學、臨床藥理學、藥理實驗方法學

研究領域：心血管藥理學與線粒體動力學、中藥藥理學

Recent 5 years Publications [* , corresponding author(s); †, contribution

equally/sharing first authorship]

- 1) Xiao-Yi Chen, Tian-Tian Wang, Qing Shen, Hao Ma, Zhan-Hua Li, Xi-Na Yu, Xiao-Feng Huang, Lin-Sen Qing*, **Pei Luo***. Preclinical Investigations on Anti-fibrotic Potential of Long-Term Oral Therapy of Sodium Astragalosidate in Animal Models of Cardiac and Renal Fibrosis. *ACS Pharmacology & Translational Science*, 2024 7 (2), 421-431.
- 2) Xina Yu, Qingquan Kong, Ye Wu, Weilong Li, Dorje Rinchen, Zhifeng Zhang, Qing Shen*, **Pei Luo***. Impact of extraction method on the lipids of Himalayan marmot oil with ultrahigh-performance liquid chromatography Q-Exactive Orbitrap mass spectrometry analysis. *Rapid Communications in Mass Spectrometry*, May 2024.
- 3) Hao Ma, Lili He*, Yi Yang, Tiantian Wang, Jiayao Li, Zhifeng Zhang, **Pei Luo***. Branched fructo-oligosaccharides from Polygonatum Cyrtonema Hua as crosslinking agents for cellulose: A novel injectable and on-demand dissolution hydrogel for diabetic wound. *International Journal of Biological Macromolecules*. 254 (2024) 128028.

- 4) Xiao-Feng Huang, Ying Xue, Li Yong, Tian-Tian Wang, **Pei Luo***, Lin-Sen Qing*. Chemical derivatization strategies for enhancing the HPLC analytical performance of natural active triterpenoids. *Journal of Pharmaceutical Analysis*, Volume 14, Issue 3, March 2024, Pages 295-307.
- 5) Xiaoxue Li, Aiting Liu, Chen Xie, Yanlian Chen, Kuan Zeng, Changming Xie, Zhengzhipeng Zhang, **Pei Luo**, Hui Huang*. The transcription factor GATA6 accelerates vascular smooth muscle cell senescence-related arterial calcification by counteracting the role of anti-aging factor SIRT6 and impeding DNA damage repair. *Kidney International*, 2023 Oct 30.
- 6) Pan Liang, Tao Bi, Yanan Zhou, Yining Ma, Xinyue Liu, Wei Ren, Sijin Yang*, and **Pei Luo***. Insights into the Mechanism of Supramolecular Self-Assembly in the Astragalus membranaceus-Angelica sinensis Codecoction. *ACS Applied Materials & Interfaces*, 2023, 15, 41, 47939-47954.
- 7) Ying Zhang, Ping Liu, Li-Jia Tang, Pei-Min Lin , Run Li , Huai-Rong Luo*, **Pei Luo***. Basing on the machine learning model to analyse the coronary calcification score and the coronary flow reserve score to evaluate the degree of coronary artery stenosis. *Computers in Biology and Medicine*, 2023 Sep:163:107130.
- 8) Qianlong Wang, Tiantian Wang, Chonkit Lio, Xina Yu, Xiaoyi Chen, Lancong Liu, Youjiao Wu, Hui Huang, Linsen Qing*, **Luo P***. Surface hydrolysis-designed AuNPs-zwitterionic-glucose as a novel tool for targeting macrophage visualization and delivery into infarcted hearts. *Journal of Controlled Release*, 2023 Apr;356:678-690.
- 9) Lin-Sen Qing*, Tian-Tian Wang, Han-Yue Luo, Jia-Lan Du, Run-Yue Wang, **Luo P***. Microfluidic strategies for natural products in drug discovery: Current status and future perspectives. *Trends in Analytical Chemistry*, Volume 158, January 2023, 116832.
- 10) Aiting Liu, **Luo P**, Hui Huang*. New insight of complement system in the process of vascular calcification. *Journal of Cellular and Molecular Medicine*. 2023 Apr 1.
- 11) Zhang, M, Wang, PY, Jin, DP, Jian, SK, Wu, JH, Huang, M, Xie, HJ, Zhao, QL, Yang, HC, **Luo P**, Yuan, H*, Xue, J*, Shen, Q*. Chain-locked precursor ion scanning based HPLC-MS/MS for in-depth molecular analysis of lipase-catalyzed transesterification of structured phospholipids containing ω -3 fatty acyl chains. *Food Chemistry*, 2023 Volume 399.

- 12) Liu, LC[†], Ding, WF[†], *, He, LL, Yang, Y, Guan, FY, Sun, XL, Peng, Y, Chen, X, Zhao, WH, Xiao, Y, **Luo P***. RGD and Scutellarin Conjugate (WK001) Targeting Platelet Glycoprotein IIb/IIIa Receptor Protects from Myocardial Ischemia/ Reperfusion Injury: Synthesis, Characterization, and Bioactivity Evaluation. *Bioconjugate Chemistry*. 2023 Mar 15;34(3):477-488.
- 13) Shan-Shan Song[†], Run-Yue Wang[†], Zhan-Hua Li, Yi Yang, Tian-Tian Wang, Lin-Sen Qing*, **Luo P***. Role of simulated in vitro gastrointestinal digestion on biotransformation and bioactivity of astragalosides from Radix Astragali. *Journal of Pharmaceutical and Biomedical Analysis*. 2023 Volume 231, 5 July.
- 14) Xu, J, Tang, CK, Din, AU, Lu, Y, Ma, XY, Zhang, T, Wu, JQ, Du, ZQ, **Luo P**, Wu, JB* Oligosaccharides of Polygonatum Cyrtonema Hua ameliorates dextran sulfate sodium-induced colitis and regulates the gut microbiota. *Biomedicine & Pharmacotherapy*, 023, Volume 161.
- 15) Ren, XC, Zhang, N, Chen, XY, Huang, H, **Luo P***. Drp1 is essential for PINK1/Parkin signaling in H9c2 cardiomyocytes. *MedComm*, 2023 Mar 17;4(2): e231.
- 16) Cui, YW, Ge, LJ, Lu, WB, Wang, ST, Li, YY, Wang, HF, Huang, M, Xie, HJ, Liao, J, Tao, Y*, **Luo P***, Ding, YY*, Shen, Q*. Real-Time Profiling and Distinction of Lipids from Different Mammalian Milks Using Rapid Evaporative Ionization Mass Spectrometry Combined with Chemometric Analysis. *Journal of Agricultural and Food Chemistry*, 2022 Jun 29;70(25).
- 17) Wu, YJ[†], Li, ZH[†], Li, JY, Zhou, Y, Wang, RY, Chen, XY, Qing, LS*, **Luo P***. Elucidation of the binding mechanism of astragaloside IV derivative with human serum albumin and its cardiotoxicity in zebrafish embryos. *Frontiers in Pharmacology*. 2022 Sep 23; 13:987882.
- 18) Wu, YJ, He, LL, Yang, Y, Yan, ZG, Zhang, ZF, Yao, XJ, **Luo P***. Influence of heat processing on the anti-inflammatory activity of fresh Smilax glabra based on PDE4 inhibition. *Food Chemistry-X*, 2022 Aug 10;15:100425.
- 19) Shen, Q, Wang, HX, Quan, B, Sun, XH, Wu, GH, Huang, DR, Wang, QC*, **Luo P***. Rapid quantification of bioactive compounds in Salvia miltiorrhiza Bunge derived decoction pieces, dripping pill, injection, and tablets by polarity-switching UPLC-MS/MS. *Frontiers in Chemistry*. 2022 Jul 15; 10:964744.

- 20) Shi, YC, Zhang, HJ, Huang, SL, Yin, L, Wang, F, **Luo P**, Huang, H*. Epigenetic regulation in cardiovascular disease: mechanisms and advances in clinical trials. *Signal Transduction and Targeted Therapy*. 2022 Jun 25;7(1):200.
- 21) Yang, HuaYi, Liu, MenLan, **Luo P***, Yao, XinSheng*, Zhou, Hua*. Network pharmacology provides a systematic approach to understanding the treatment of ischemic heart diseases with traditional Chinese medicine. *Phytomedicine*. 2022 Sep; 104:154268.
- 22) Wang, HF, Wang, PY, Shen, Q*, Yang, HJ*, Xie, HJ, Huang, M, Zhang, J, Zhao, QL, **Luo P**, Jin, DP, Wu, JH, Jian, SK, Chen, X*. Insight into the effect of ultrasound treatment on the rheological properties of myofibrillar proteins based on the changes in their tertiary structure. *Food Research International*. Volume 157, July 2022, 111136.
- 23) Li, ZY, Yang, W, Yang, Y, Wu, JB, **Luo P**, Liu, Y*. The Astragaloside IV Derivative LS-102 Ameliorates Obesity-Related Nephropathy. *Drug Design, Development and Therapy*. 2022 Mar 14; 16:647-664.
- 24) Wang QL, Liu LC, Chen X, Wang TT, Zhou H, Huang H, Qing LS*, **Luo P***. Noninvasive Prognosis of Postmyocardial Infarction Using Urinary miRNA Ultratrace Detection Based on Single-Target DNA-Functionalized AuNPs. *ACS Applied Materials & Interfaces*. 2022 Jan 26;14(3):3633-3642.
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- 33) Gao WJ, Liu JX, Xie Y, **Luo P**, Liu ZQ, Liu L*, Zhou H*. Suppression of macrophage migration by down-regulating Src/FAK/P130Cas activation contributed to the anti-inflammatory activity of sinomenine. *Pharmacological Research*. 2021 May; 167:105513.
- 34) Xie, Jing, Gong, YiXinYue, Ding, LiSheng, Qing, LinSen*, **Luo P***. Progress in clinical and pharmacological studies of Astragali Radix and its active components against sepsis. *Chinese Traditional and Herbal Drugs*. 2021,52(8):2502-2510.
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- 37) Li Chen, Xiao-Yi Chen, Qian-Long Wang, Si-Jin Yang, Hua Zhou, Li-Sheng Ding, Lin-Sen Qing*, **Luo P***. Astragaloside IV Derivative (LS-102) Alleviated Myocardial Ischemia

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- 38) Ji-Zhong Zhang, Xiao-Yi Che, You-Jiao Wu, Li-Min Li, Li Huang, Qiao-Zhi Yin, **Luo P***, Yuan Liu*. Identification of Active Compounds from Yi Nationality Herbal Formula Wosi Influencing COX-2 and VCAM-1 Signaling. *Frontiers in Pharmacology*. 2020 Nov 9; 11:568585.
- 39) Xin Li[†], Yi Yang[†], Lancong Liu, Xuefeng Yang, Xiaobo Zhao, Yan Li, Yanyan Ge, Yuxin Shi, Ping Lv, Jianchu Zhang, Tao Bai, Hua Zhou, **Luo P***, Shilong Huang*. Effect of combination antiviral therapy on hematological profiles in 151 T adults hospitalized with severe coronavirus disease 2019. *Pharmacological Research*. 2020 Oct; 160:105036.
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- 41) Ma, XB, Wu, YJ, Li, Y, Huang, YF, Liu, Y, **Luo P**, Zhang, ZF*. Rapid discrimination of *Notopterygium incisum* and *Notopterygium franchetii* based on characteristic compound profiles detected by UHPLC-QTOF-MS/MS coupled with multivariate analysis. *Phytochemical Analysis*. 2020 May;31(3):355-365.
- 42) Yi-Han Zuo, Yong-Bei Liu, Chun-Song Cheng, Yu-Pei Yang, Ying Xie, **Luo P**, Wei Wang*, Hua Zhou*. Isovaleroylbinankadsurin A ameliorates cardiac ischemia/reperfusion injury through activating GR dependent RISK signaling. *Pharmacological Research*. 2020 Aug; 158:104897.
- 43) Yu-Feng Huang, Fan He, Can-Jian Wang, Ying Xie, Yan-Yu Zhang, Zhen Sang, Ping Qiu, **Luo P**, Sheng-Yuan Xiao, Jing Li, Fei-Ci Wu, Liang Liu*, Hua Zhou*, Discovery of chemical markers for improving the quality and safety control of *Sinomenium acutum* stem by the simultaneous determination of multiple alkaloids using UHPLC-QQQ-MS/MS. *Scientific Reports*. 2020 Aug 25;10(1):14182.
- 44) Qian-Long Wang, Wei-Xue Huang, Pu-Juan Zhang, Li Chen, Chon-Kit Lio, Hua Zhou, Lin-Sen Qing*, **Luo P***. Colorimetric determination of the early biomarker hypoxia-inducible factor-1 alpha (HIF-1 α) in circulating exosomes by using a gold seed-coated with

- aptamer-functionalized Au@Au core-shell peroxidase mimic. *Microchimica Acta*. 2019 Dec 18;187(1):61.
- 45) Chon-Kit Lio, Jin-Fang Luo, Xiu-Yu Shen, Yi Dai, Jorge Machado, Ying Xie, Yun-Da Yao, Yang Yue, Jian-Xin Liu, Xin-Sheng Yao, **Luo P***, Hua Zhou*. Nardosinone N suppresses LPS-induced macrophage activation by modulating the Nrf2 pathway and mPGES-1. *Biochemical Pharmacology*. 2020 Mar; 173:113639.
- 46) Meng XY, Yau LF, Huang H, Chan WH, **Luo P**, Chen L, Tong TT, Mi JN, Yang Z, Jiang ZH1, Wang JR*. Improved approach for comprehensive profiling of gangliosides and sulfatides in rat brain tissues by using UHPLC-Q-TOF-MS. *Chemistry and Physics of Lipids*. 2019 Aug 20; 225:104813.
- 47) Yuqing Chen, Wei Sun, **Luo P**, Min Zhang*, Yuerong Wang, Hongyang Zhang, Ping Hu*. A new circular-shape microfluidic network for generating gradients of multiple substances-design, demonstration and application. *Sensors and Actuators, B: Chemical*. 2019, Volume 283, Pages 247-254.
- 48) Yao Y-D, Shen X-Y, Machado J, Luo J-F, Dai Y, Lio C-K, Yu Y, Xie Y, **Luo P**, Liu J-X, Yao X-S, Liu Z-Q*, Zhou H* Nardochinoid B Inhibited the Activation of RAW264.7 Macrophages Stimulated by Lipopolysaccharide through Activating the Nrf2/HO-1 Pathway. *Molecules*. 2019 Jul 6;24(13):2482.
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- 50) Liu Y, Wang L, Luo M, Chen N, Deng X, He J, Zhang L, **Luo P**, Wu JB. Inhibition of PAI-1 attenuates perirenal fat inflammation and the associated nephropathy in high-fat diet-induced obese mice. *American Journal of Physiology-Endocrinology and Metabolism*. 2019 Feb 1;316(2): E260-E267.
- 51) Zhou, XB[†], Chen, L[†], Jiang, ZH, Chen, XY, **Luo, P***; Bai, LP*, Synthesis of 21-Alkylidenes and 21-Alkylol Analogues of Uscharin and Their Effects on Intracellular Calcium in Cardiac Cells. *Chemistry select*. 2019, 4 (19), 5512-5517.
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Research Project as Principal Investigator (as PI)

- 1) *Project title:* 小分子串聯親和技術靶向獲取天然別構劑治療冠心病的研究
At Macau University of Science and Technology. Science & Technology Development Fund of Macao SAR (澳門科學技術發展基金).
Project No: 0157/2019/A3, 2020~2022.
- 2) *Project title:* 燈盞花素-RGD類肽聚合物的中試關鍵技術和藥效作用機制的研究
“2020年廣東省科技創新戰略專項項目”(文號:粵科科公示〔2020〕5號).
Project No: 0028/2019/AGJ. 2020~2021.
- 3) *Project title:* 組蛋白去乙酰化酶 Sirt6 失調導致慢性腎臟病動脈鈣化的分子機制及人參炔醇幹預的保護作用。2020年度國家自然科學基金委員會與澳門科學發展基金聯合科研資助合作研究項目(全國共11項)。
Project No: 0050/2020/AFJ, 2020~2021.
- 4) *Project title:* 基於活細胞可視化技術線粒體動態變化的評價及原人參三醇型人參皂苷

治療缺血性心臟病作用機制的研究.

At Macau University of Science and Technology. Science & Technology Development Fund of Macao SAR (澳門科學技術發展基金).

Project No: 073/2011/A3, 2012~2015.

- 5) *Project title:* 微管馬達連接器與老化心肌缺血預適應的關係及白皮杉醇型萜類化合物的幹預作用.

At Macau University of Science and Technology. Science & Technology Development Fund of Macao SAR (澳門科學技術發展基金).

Project No: 052/2013/A2, 2013~2017.

- 6) *Project title:* Bruker in vivo small animal image platform (布魯克活體動物成像系統).

At Macau. University of Science and Technology. Science & Technology Development Fund of Macao SAR (澳門科學技術發展基金).

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