

潘胡丹



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教学科目: 中医内科学、中医外科学

研究方向: 中西医结合临床、临床免疫、抗关节炎创新药物

潘胡丹，现为澳门科技大学中药质量研究国家重点实验室助理教授。于 2012 年、2014 年获得北京中医药大学中医七年制专业（中西医结合方向）学士及硕士学位。2017 年获得澳门科技大学中西医结合专业博士学位。担任世界中医药协会中医药免疫专业委员会理事，澳门国际风湿病合作联盟理事，粤港澳大湾区风湿免疫医师联盟第一届成员。主要从事中医治疗风湿病的临床和基础研究。近五年，共发表文章 22 篇，Sci 论文 21 篇，总影响因子(IF)124.1, 平均 IF: 5.91; 包括 Annals of the Rheumatic Diseases 、 Microbiome 、 Nature communications 、 Pharmacology & Therapeutics 4 篇 10 分以上文章。以第一作者/共同第一作者发表 Q1 区间杂志文章 6 篇，中国领军杂志文章 3 篇。申请、授权专利 5 项。在国际知名期刊 Pharmacological research 、 Engineering 、 Phytomedicine 担任编委/青年编委。

学历

2014 – 2017 澳门科技大学/中西医结合/博士学位

2007 – 2014 北京中医药大学/中医七年制专业（中西医结合方向）/本科、硕士学位

工作履历

2019-至今 澳门科技大学中药质量研究国家重点实验室 助理教授

2017 – 2019 澳门科技大学中药质量研究国家重点实验室 博士后

学术成果

1. HD Pan[#], RJ Guo[#], YM Ju[#], Q Wang[#], Jie Zhu, Ying Xie, YF Zheng, T Li, ZQ Liu, LL Lu, F Li, B Tong, L Xiao, X Xu, Elaine LH Leung, RZ Li, HM Yang, J Wang, H Zhou, HJ Jia*, Liang Liu*. *A single bacterium restores the microbiome dysbiosis to protect bones from destruction in a rat model of rheumatoid arthritis.* *Microbiome.* 2019 Jul 17;7(1):107.
2. Pan HD, Yao XJ, Wang WY, Lau HY, Liu L*. *Network pharmacological approach for elucidating the mechanisms of traditional Chinese medicine in treating COVID-19 patients.* *Pharmacol Res.* 2020 Jun 20;159:105043.
3. XX Fan[#], HD Pan[#], Y Li, RJ Guo, Elaine Leung*, L Liu*. *Novel therapeutic strategy for cancer and autoimmune conditions: Modulating cell metabolism and redox capacity.* *Pharmacol Ther.* 2018 Nov;191:148-161.
4. HD Pan[#], Y Xiao[#], WY Wang, RT Ren, Elaine LH Leung*, L Liu*. *Traditional Chinese Medicine as a Treatment for Rheumatoid Arthritis: From Empirical Practice to Evidence-based Therapy.* *Engineering.* doi: org/10.1016/j.eng.2019.01.018.
5. Pan H[#], Guo R[#], Zhu J[#], Wang Q[#], Ju Y, Xie Y, Zheng Y, Wang Z, Li T, Liu Z, Lu L, Li F, Tong B, Xiao L, Xu X, Li R, Yuan Z, Yang H, Wang J, Kristiansen K, Jia H*, Liu L*. *A gene catalogue of the Sprague-Dawley rat gut metagenome.* *Gigascience.* 2018 May 1;7(5).
6. Pan, H., Li, R., Li, T., Wang, J., Liu, L*. *Whether Probiotic Supplementation Benefits Rheumatoid Arthritis Patients: A Systematic Review and Meta-Analysis.* *Engineering,* 115-121, doi:10.1016/j.eng.2017.01.006.
7. HD Pan[#], YF Zheng, ZQ Liu, ZW Yuan, RT Ren, H Zhou, Y Xie*, L Liu*. *Deciphering the pharmacological mechanism of Guan-Jie-Kang in treating rat adjuvant-induced arthritis*

- using omics analysis. *Front Med.* 2019 May 14. doi: 10.1007/s11684-018-0676-2.
- 8. Zou B, Zhang Y, Li T, Liu J, Deng W, Tan Y, Yang Q, Ding Z, Liao K, Xu J, Pan H, Li X*, Liu L*. A mutation of cysteine 46 in IKK- β promotes mPGES-1 and caveolin-1 expression to exacerbate osteoclast differentiation and osteolysis. *Biochem Pharmacol.* 2020 Feb;172:113762.
 - 9. Hu F, Jiang X, Guo C, Li Y, Chen S, Zhang W, Du Y, Wang P, Zheng X, Fang X, Li X, Song J, Xie Y, Huang F, Xue J, Bai M, Jia Y, Liu X, Ren L, Zhang X, Guo J, Pan H, Su Y, Yi H, Ye H, Zuo D, Li J, Wu H, Wang Y, Li R, Liu L*, Wang XY*, Li Z*. Scavenger receptor-A is a biomarker and effector of rheumatoid arthritis: A large-scale multicenter study. *Nat Commun.* 2020 Apr 20;11(1):1911.
 - 10. Zhang N, Zhang H, Law BYK, Dias IRSR, Qiu CL, Zeng W, Pan HD, Chen JY, Bai YF, Lv J, Qu LQ, Chen X, Huang Q, Zhang W, Yang LJ, Yu L, Han Y, Huang GX, Wang HM, Sun XL, Zhang Y, He HQ, Dan Luo W, Xiao Y, Zhou J, Xu T, Huang QC, Wu M, Huang ZS, Liu W, Wong VKW*, Liu L*. Sirtuin 5 deficiency increases disease severity in rats with adjuvant-induced arthritis. *Cell Mol Immunol.* 2020 Feb 25.
 - 11. Wong VKW, Qiu C, Xu SW, Law BYK, Zeng W, Wang H, Michelangeli F, Dias IRSR, Qu YQ, Chan TW, Han Y, Zhang N, Mok SWF, Chen X, Yu L, Pan H, Hamdoun S, Efferth T, Yu WJ, Zhang W, Li Z, Xie Y, Luo R, Jiang Q, Liu L*. Ca²⁺ signalling plays a role in celastrol-mediated suppression of synovial fibroblasts of rheumatoid arthritis patients and experimental arthritis in rats. *Br J Pharmacol.* 2019 Aug;176(16):2922-2944.
 - 12. Wang J#, Wang C#, Liang Y, Pan H, Jiang Z, Li Z, Li Y, Xia L, Liu W, Zhang X, Liu Z, Jiang M, Liu J, Zhou H, Liu L*. Serum IgG N-glycans act as novel serum biomarkers of ankylosing spondylitis. *Ann Rheum Dis.* 2018 Nov 15. pii: annrheumdis-2018-213815. doi: 10.1136/annrheumdis-2018-213815.
 - 1. Li RZ, Fan XX, Duan FG, Jiang ZB, Pan HD, Luo LX, Zhou YL, Li Y, YaoXJ, Leung EL*, Liu

- L*. Proscillarin A induces apoptosis and suppresses non-small-cell lung cancer tumor growth via calcium-induced DR4 upregulation. Cell Death Dis. 2018 Jun 13;9(6):696.*
2. *RY Huang, HD Pan, JQ Wu, H Zhou, ZG Li, P Qiu, YY Zhou, XM Chen, ZX Xie, Y Xiao, QC Huang*, L Liu*. Comparison of combination therapy with methotrexate and sinomenine or leflunomide for active rheumatoid arthritis: a randomized controlled clinical trial. Phytomedicine. 2019 Apr;57:403-410.*
3. *HD Pan, XL Qi, L Wang, JY He, JL Liu, YB Zhang, Y Tian, XW Duan, HY Yang, YP Bai*. Whether Fire-needle Therapy Benefits Plaque Psoriasis: A Multicenter, Randomized, and Controlled Trial. Chin J Integr Med. 2019 Apr;25(4):259-263.*
4. *Su X, Li T, Liu Z, Huang Q, Liao K, Ren R, Lu L, Qi X, Wang M, Chen J, Zhou H, Leung EL, Pan HD, Liu J, Wang H, Huang L, Liu L*. Licochalcone A activates Keap1-Nrf2 signaling to suppresses arthritis via phosphorylation of p62 at serine 349. Free Radic Biol Med. 2017 Dec 9. pii: S0891-5849(17)31236-4. doi: 10.1016 / j.freeradbiomed. 2017.12.004.*
5. *He Y, Huang Y, Mai C, Pan H, Luo HB, Liu L*, Xie Y*. The immunomodulatory role of PDEs inhibitors in immune cells: therapeutic implication in rheumatoid arthritis. Pharmacol Res. 2020 Aug 13;161:105134.*
6. *Li Y#, Leung EL#, Pan HD, Yao XJ, Huang QC, Wu M, Xu T, Wang YW, Cai J, Li RZ, Liu W and Liu L*. Identification of Potential Genetic Causal Variants for Rheumatoid Arthritis by Whole-Exome Sequencing. Oncotarget. 2017*
7. *Wang MF#, Li RZ#, Li Y, Cheng XQ, Yang J, Chen W, Fan XX, Pan HD, Yao XJ, RT, XQ, Liu L*, Leung EL* & Tang YJ*. J Thorac Dis. Clinical statistics analysis on the characteristics of pneumoconiosis of Chinese miner population. 2016, 8(8): 2203-2211.*

8. Wang MF, Li RZ, Li Y, Cheng XQ, Yang J, Chen W, Fan XX, Pan HD, Yao XJ, Ren T, Qian X, Liu L, Leung EL*, Tang YJ *. Clinical statistics analysis on the characteristics of pneumoconiosis of Chinese miner population. *J Thorac Dis.* 2016 Aug; 8(8):2203-11.
9. Su X, Huang Q, Chen J, Wang M, Pan H, Wang R, Zhou H, Zhou Z, Liu J, Yang F, Li T, Liu L*. Calycosin suppresses expression of pro-inflammatory cytokines via the activation of p62/Nrf2-linked heme oxygenase 1 in rheumatoid arthritis synovial fibroblasts. *Pharmacol Res.* vol. 113, Part A, pp. 695 –704, 2016.
10. Wang R, Zhang CY, Bai LP, Pan HD, Shu LM, Kong AN, Leung EL, Liu L*, Li T*. Flavonoids derived from liquorice suppress murine macrophage activation by up-regulating heme oxygenase-1 independent of Nrf2 activation. *Int Immunopharmacol.* 2015 Oct;28(2):917-24.

成果专利

1. Methods of identifying a gene associated with a disease or pathological condition of the disease. Liu L, Leung EL, Yao XJ, Li Y and Pan HD.(US Patent No. 15/647,414 filed on 12 July 2017; Australia patent awarded for 8 year-2017100960)
2. An oral liquid probiotic formulation and method of preventing and/or treating arthritis. Liu L; Pan HD; Zheng YF and Li RZ. (Australia patent awarded for 8 year- 2017100632)
3. LIU Liang, **PAN Hu-Dan**, WANG Jing-Rong, WANG Can-Jian, LIANG Yong. Method of diagnosing systemic lupus erythematosus. (系统性红斑狼疮诊断方法).AUS 2019101124. 2019/09/27.
4. 口服液体益生菌制剂及其制备方法和应用. 刘良, 潘胡丹, 郭锐进, 郑燕芳, 贾慧珏, 李润泽. 2018-5-29, 中国发明专利, 申请号: 201810533806.5
5. 杨梅素在制备预防或治疗冠状病毒、流感病毒的药物中的应用.刘良, 潘胡丹, 杨子峰, 姚小军, 李润峰. 2020-11-19, 中国发明专利,申请号: 202011301170.5

支持或参加项目

1. 澳门科学技术发展基金，一般科研资助，0010/2020/A1，中医“病-证-方”结合诊治类风湿关节炎寒湿痹阻证的临床与基础研究，2020年8月至2023年8月，169万，在研，主持；
2. 中华人民共和国科学技术部，国家重点研发计划，2020YFA0708003，应用大数据技术揭示麻杏薏翘汤抗新冠病毒免疫损伤的分子机理，2020年05月至2023年04月，180万，在研，主持；
3. 澳门科学技术发展基金，一般科研资助，0059/2020/A，创新中药治疗新型冠状病毒肺炎并发炎症因子风暴和肺纤维化研究，2020年3月至2021年3月，29万，在研，主持；
4. 澳门科学技术发展基金，重点研发资助计划，0003/2019/AKP，类风湿关节炎精准诊断新方法和治疗新策略研究，2019年12至2023年1月，1105万，在研，参与；
5. 国家自然科学基金与澳门科学技术发展基金，联合项目，0032/2018/AFG，基于中医方证代谢组学的二妙散类方治疗类风湿性关节炎的有效性研究，2018年10月至2021年10月，171万，在研，参与。

获奖：

1. **Best Paper Award.** *The 10th International Forum on Rheumatoid Arthritis (IFRA 2018)*
2. **Best TCM Conference Abstract Award.** *The 6th Annual Meeting of Specialty Committee on Immunology of Traditional Chinese Medicine of the World Federation of China Immunology Society*
3. **Excellent Young Expert Award 2020.** *Engineering*

学术及社会机构任职

1. Council Member of the Chinese Medicine and Immunology Association, World Federation of China Immunology Society, 2018 - Present (B06218110151)
2. Council Member of the 1th Board of Specialty Committee of Chinese Medicine Healthcare Products of World Federation of China Immunology Society, 2015-Present
3. 粤港澳大湾区风湿免疫医师联盟第一届成员
4. Council member of the First Council for Macau International Collaboration Alliance for

Rheumatology Research.