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学历

2003 – 2008 北京协和医学院 药理学博士学位
1999 - 2003 浙江大学 药学学士学位

工作经历

2020.7–现在 澳门科技大学中药机制与质量全国重点实验室 副教授
2014.1–2020.6 澳门科技大学中药机制与质量全国重点实验室 助理教授
2010.7 – 2013.12 香港中文大学威尔斯亲王医院 博士后
2009.5 – 2010.7 新加坡南洋理工大学化学与生物医学工程系 博士后

研究方向

蛋白降解调控药物研究：从中药中发现新型自噬、蛋白酶体降解调控药物，并研究其药理活性

生物材料与纳米药物：构建新型药物递送体系，提高药物靶向选择性；纳米药物的蛋白降解调控活性研究

代表性论文发表(* 通讯作者)：

1. Wang MY, Deng XN, Dong H, Feng XY, Zhu FR, Yin D, Hong C, Chen ZY, Wang L, **Zhu XM***. Enhancing the efficacy of sonodynamic therapy through modulation of autophagy. *Ultrasonics Sonochemistry*, 2025, 121, 107527. [IF: 9.7]

2. Yin D, Wu X, Chen X, Chen JL, Xia X, Wang J, Chen X, Zhu XM*. Enhanced anticancer effect of carfilzomib by codelivery of calcium peroxide nanoparticles targeting endoplasmic reticulum stress. *Materials Today Bio*, 2025, 32, 101649. [IF: 10.2]
3. Gu ZY, Chen GH, Gao N, Zhang XR, Xu QG, Xiong W, Liu L, Liu Q, Yin D, Zhu XM*, Huang YZ*. In-situ trichosanthin-IL2/pectin dynamic hydrogel activates dendritic cells and reverses T cell exhaustion for post-operative cancer therapy. *Chemical Engineering Journal*, 2025, 505, 159426. [IF: 13.2]
4. Xu YN, Bai X, Chen JL, Wu X, Yin D, Yuan G, Dai R, Zhu XM*, Wang JF*. Tracing sentinel lymph nodes and inhibiting lymphatic metastasis with TiN nanobipyramids through photothermal therapy. *International Journal of Nanomedicine*, 2024, 19: 13579-13592. [IF: 6.5]
5. Chen JL, Jia XH, Wu X, Yuan MH, Xia XY, Yin D, Chen X, Gu ZY, Liu JZ, Bai LP, Luo KQ, Wang JF, Zhu XM*. Kidney-targeted antioxidant salvianolic acid B nanoparticles restoring lysosome homeostasis for acute kidney injury therapy. *Chemical Engineering Journal*, 2024, 490, 151811. [IF: 13.2]
6. Chen JL, Jia XH, Xia XY, Wu X, Xu YN, Yuan G, Gu ZY, Luo KQ, Yuan MH, Jiang RB, Wang JF, Zhu XM*. Co-delivery of vorinostat and chloroquine by autophagy-inhibitory hollow ZrO₂ nanoshells for synergistic combination chemotherapy. *Chemical Engineering Journal*, 2023, 471, 144740. [IF: 13.2]
7. Chen JL, Wu X, Yin D, Jia XH, Chen X, Gu ZY, Zhu XM*. Autophagy inhibitors for cancer therapy: small molecules and nanomedicines. *Pharmacology & Therapeutics*, 2023, 249, 108485. [IF: 12.5]
8. Yuan G, Xu YN, Bai XP, Wang WM, Wu X, Chen JL, Li J, Jia XH, Gu ZY, Zhang X, Hu W, Wang JF, Liu Y*, Zhu XM*. Epirubicin-loaded polyacrylic acid/calcium phosphate nanoparticles for chemoembolization treating hepatocellular carcinoma. *ACS Applied Materials & Interfaces*, 2023, 15(9): 11431-11443. [IF: 8.2]
9. Wu X, Wang L, Xu YN, Chen JL, *et al*, Zhu XM*, Jiang RB*. Chemo-phototherapy with carfilzomib-encapsulated TiN nanoshells suppressing tumor growth and lymphatic metastasis. *Small*, 2022, 18(29): 2200522. [IF: 12.1]
10. Yan GY, Li J, Chen SS, Liu Y, Wu JL, Zhu XM*, Li N*. New limonoids from the fruits of *Melia toosendan* and their autophagic activities. *Phytochemistry Letters*, 2020, 35: 15-22.
11. Chen JL, Zhang H, Huang XQ, Wan HY, Li J, Fan XX, Luo KQ, Wang JH, Zhu XM*,

- Wang JF*. Antiangiogenesis-combined photothermal therapy in the second near-infrared window at laser powers below the skin tolerance threshold. *Nano-Micro Letters*, 2019, 11(1):93. [IF: 36.3]
12. Zhang H, Chen JL, Li NN, Jiang RB, Zhu XM*, Wang JF*. Au nanobottles with synthetically tunable overall and opening sizes for chemo-photothermal combined therapy. *ACS Applied Materials & Interfaces*, 2019, 11(5): 5353-5363. [IF: 8.2]
 13. Wan HY, Chen JL, Zhu XZ, Liu L, Wang JF*, Zhu XM*. Titania-coated gold nano-bipyramids for blocking autophagy flux and sensitizing cancer cells to proteasome inhibitor-induced death. *Advanced Science*, 2018, 5: 1700585. [IF: 14.1]
 14. Wan HY, Chen JL, Yu XY, Zhu XM*. Titania-coated gold nanorods as an effective carrier for gambogic acid. *RSC Advances*, 2017, 7: 49518-49525.
 15. Zhu XM*, Wan HY, Jia H, Liu L, Wang JF*. Porous Pt nanoparticles with high near-infrared photothermal conversion efficiencies for photothermal therapy. *Advanced Healthcare Materials*, 2016, 5:3165-3172. [IF: 9.6]
 16. Zhu XM, Fang CH, Jia HL, Huang Y, *et al.* Cellular uptake behaviour, photothermal therapy performance, and cytotoxicity of gold nanorods with various coatings. *Nanoscale*, 2014, 6: 11462-11472.
 17. Wang YX*, Zhu XM, Liang Q, Cheng CH, Wang W*, Leung KC*. In vivo chemoembolization and magnetic resonance imaging of liver tumors by using iron oxide nanoshell/doxorubicin/poly(vinyl alcohol) hybrid composites. *Angewandte Chemie International Edition*, 2014, 53(19): 4812-5.
 18. Wang DW, Zhu XM (Co-first), Lee SF, *et al.* Folate-conjugated Fe₃O₄@SiO₂@gold nanorods@mesoporous SiO₂ nanocomposite: a theranostic agent for magnetic resonance imaging and photothermal therapy. *Journal of Materials Chemistry B*, 2013, 1: 2934-42.
 19. Zhu XM, Yuan J, Leung KC, Lee SF, *et al.* Hollow superparamagnetic iron oxide nanoshells as a hydrophobic anticancer drug carrier: intracellular pH-dependent drug release and enhanced cytotoxicity. *Nanoscale*, 2012, 4(18): 5744-54.
 20. Zhu XM, Wang YX, Leung KC, Lee SF, *et al.* Enhanced cellular uptake of aminosilane coated superparamagnetic iron oxide nanoparticles in mammalian cell lines. *International Journal of Nanomedicine*, 2012, 7: 953-64.
 21. Zhu XM, Fu AF, Luo KQ*. A high-throughput fluorescence resonance energy transfer (FRET)-based endothelial cell apoptosis assay and its application for screening vascular disrupting agents. *Biochemical and Biophysical Research Communications*, 2012, 418(4): 641-646.

22. **Zhu XM**, Fang LH, Li YJ, Du GH*. Endothelium-dependent and -independent relaxation induced by pinocembrin in rat aortic rings. *Vascular Pharmacology*, 2007, 46(3): 160-5.

教学科目

基础药理学、药理学与毒理学、毒理学与安全用药、中药药理学、中药研究进展、中西医结合研究进展、基因工程学、生物化学与分子生物学、高等药剂学

主持科研项目

1. Development of novel salvianolic acid B particles for treating acute lung injury via “red blood cell-hitchhiking” strategy. 08/05/2025 to 08/05/2028. 217.3 万澳门元
2. Development of a new transcatheter arterial chemoembolization agent targeting the microenvironment for hepatocellular carcinoma therapy. 16/12/2022 to 15/06/2026. 227.2 万澳门元
3. Cathepsin B inhibitors for chemosensitization of proteasome inhibitors. 23/05/2020 to 22/05/2023. 149 万澳门元
4. Development of a tumor vasculature targeting nanostructure-based drug delivery system for reducing toxicity and enhancing anticancer efficacy of natural products. 31/12/2014 to 30/12/2017. 185.8 万澳门元
5. Porous noble metal nanoparticles for hydrophobic anticancer drug delivery. 01/06/2014 to 31/05/2015. 10 万澳门元

学术兼职

1. Editorial Board of *Chinese Journal of Modern Applied Pharmacy*
2. Editorial Board of *International Journal of Drug Discovery and Pharmacology*
3. Member of Chinese Pharmacological Society since 2010
4. Young Committee Member of Pharmacology on traditional Chinese medicine (TCM) and Natural Medicine since 2019
5. Member of Committee on Marine Pharmacology of Chinese Pharmacological Society since 2018
6. Executive Council Member of Specialty Committee of Immunology of TCM of World Federation of Chinese Medicine Societies 2014-2023

获奖

2017 年中国药理学会施维雅青年药理学家奖