**Xiao-Ming ZHU**

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| **H:\ZXM in NTU\申请\Zhu Xiaoming.jpg** |  | Position: | Associate Professor |
| Faculty: | State Key Laboratory of Quality Research in Chinese Medicine, Macau Institute for Applied Research in Medicine and Health |
| Email Address: | xmzhu@must.edu.mo |
| Telephone:  | (853) 8897-2753 |
| Fax No.:  | (853) 2882-5886 |
| Office:  | I01-113 |
| Mailing Address:  | Avenida Wai Long, Taipa, Macau |

**Teaching Modules**: Fundamental Pharmacology, Pharmacology & Toxicology, Toxicology & Drug Abuse, Herbal Pharmacology, Advanced Pharmaceutics, Current Topics in Research of Chinese Medicines, Current Topics in Integrated Chinese and Western Medicine, Genetic Engineering, Biochemistry & Molecular Biology.

**Research Areas**: Oncological pharmacology and targeted drug delivery, Biomaterials and nanomedicine, Drug discovery targeting protein degradation

Dr. Zhu obtained the Bachelor degree from Zhejiang University in 2003. He got his Ph. D degree from Peking Union Medical College in 2008. After graduation, he had postdoctoral training in Nanyang Technological University and The Chinese University of Hong Kong. In January of 2014, he joined Macau University of Science and Technology (MUST). He has published more than 50 papers in SCI journals.

***Academic Qualifications***

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| 2008.7 | Ph. D in Pharmacology, Peking Union Medical College, Beijing, China |
| 2003.7 | B.S. of Pharmacy, Zhejiang University, Hangzhou, China |
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***Teaching Experience***

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| 2020.9 – Present | Associate Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology |
| 2014.1 – 2020.8 | Assistant Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology |
| 2010.7 – 2013.12 | Research Associate, Department of Imaging and Interventional Radiology, Prince of Wales Hospital, The Chinese University of Hong Kong |
| 2009.5 – 2010.7 | Research Fellow, School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore |

***Representative Publications***

1. 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: 13.3]**
2. 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: 13.3]**
3. 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: 12.0]**
4. 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: 8.3]**
5. 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: 13.0]**
6. 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.
7. 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: 31.6]**
8. 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: 8.3]**
9. 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: 14.3]**
10. 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.
11. **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: 10.0]**
12. **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.
13. 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.
14. 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.
15. Lee SF, **Zhu XM**, Wang YX, Xuan SH, *et al*. Ultrasound, pH, and magnetically responsive crown ether-coated core/shell nanoparticles as drug encapsulation and release systems. ***ACS Applied Materials & Interfaces***,2013, 5(5): 1566-74.
16. **Zhu XM**, Yuan J, Leung KC, Lee SF, *et al*. Hollow superparamagnetic iron oxide nanoshells as a hydrophobic anticancer drug carrier: intracelluar pH-dependent drug release and enhanced cytotoxicity. ***Nanoscale***, 2012, 4(18): 5744-54.
17. **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.
18. **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.
19. **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.

***Professional Qualifications and Awards***

2017 CNPHARS-Servier Prize for Young Investigators in Pharmacology