

Meng Mao

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Address: Harbin Institute of Technology, Harbin, 150001, China



EDUCATION

✧ College of Pharmacy, Harbin Medical University Ph.D. IN Pharmacology	2015.09-2020.06 Supervisor : Jing Ai
✧ College of Pharmacy, Harbin Medical University B.S.. IN Clinical Pharmacy	2010.09-2015.06

WORK EXPERIENCES

✧ The Brain Cognition and Brain Disease Institute of Shenzhen Institute of Advanced Technology, Chinese Academy of Science Postdoctor IN Neurobiology	2020.09-2023.02 Supervisor : Yu Chen
✧ School of Medicine and Health, Harbin Institute of Technology Associate Researcher IN Biomedical Engineering	2023.03-Present Supervisor : Qiang He

RESEARCH INTEREST

- Preparation and applications of micro/nanomotors in brain diseases therapy.

PUBLICATIONS

- Paper :
[1] Gao,YY, **Mao,M**, Li,Y, Xuan,MJ, Wu,Y J, He,Q. A self-directed Trojanbot-enzymatic nanobot in neutrobot for active target therapy of glioblastoma. *Nature Communication*, 2025, Accepted. DOI: 10.1038/s41467-025-60422-z. (JCR Q1, IF=14.9)
[2] **Mao,M**, Wu,Y J, He,Q. Breaking through physiological barriers: Nanorobotic strategies for active drug delivery. *Bioconjugate Chemistry*, 2025, 36(1):1-14. (JCR Q1, IF=4.0)
[3] **Mao,M**, Wu,Y J, He,Q. Recent advances in targeted drug delivery for the treatment of glioblastoma. *Nanoscale*, 2024,16(18):8689-8707. (JCR Q1, IF=5.8)
[4] **Mao,M**, Yang,L, Jin,Z, et al. Impact of intrauterine hypoxia on adolescent and adult cognitive function in rat offspring: sexual differences and the effects of spermidine intervention. *Acta Pharmacologica Sinica*, 2021,42(3):361-369. (JCR Q1, IF=6.9)
[5] **Mao,M**, Xu,Y, Zhang, XY, et al. MicroRNA-195 prevents hippocampal microglial/macrophage polarization towards the M1 phenotype induced by chronic brain hypoperfusion through regulating CX3CL1/CX3CR1 signaling. *Journal of Neuroinflammation*, 2020,17(1):244. (JCR Q1, IF=9.3)

RESEARCH EXPERIENCE

China Postdoctoral Science Foundation Program (Grant No.2024CX12C02) Active targeted drug delivery research for precision therapy of periodontitis.	2025-01.-2028-12 Host
Heilongjiang Provincial Natural Science Foundation of China (Grant No.2024M764205) Swimming nanorobots crossing the blood-brain barrier for active targeted drug delivery to glioma.	2025-01-2027.12 Host
National Natural Science Foundation of China (Grant No.U23A20342) Research on key technologies of nanorobots based marsupial robotic system for brain glioma treatment.	2024.01-2027.12 Participate
China Postdoctoral Science Foundation (Grant No. 2024M764205) Glucose-Driven Lipid Nanomotors for Active Targeted Drug Delivery to Glioma across the Blood-Brain Barrier.	2024.05-2025.06 Host
Postdoctoral Fellowship Program of CPSF (Grant No.GZC20233468) Key fundamental research on drug-delivering swimming nanorobots for glioma therapy.	2023.12 -2025.12 Host