

Special Issue

Focused Ultrasound-Assisted Drug Delivery and Therapeutic Modulation

Message from the Guest Editor

Focused ultrasound (FUS) has emerged as a powerful and noninvasive technique for enhancing drug delivery and modulating biological functions with high spatial precision. In particular, FUS in combination with microbubbles has demonstrated great potential in transiently and reversibly disrupting the blood–brain barrier (BBB), thereby enabling the targeted delivery of therapeutic agents to the brain that are otherwise impermeable. This technique has opened new therapeutic avenues in the treatment of central nervous system (CNS) disorders, including brain tumors, Alzheimer’s disease, and Parkinson’s disease. This Special Issue aims to highlight recent advances in focused ultrasound-assisted drug delivery and therapeutic modulation across various biological barriers. We welcome submissions that explore mechanistic studies, novel FUS-based drug delivery platforms, therapeutic outcomes in preclinical or clinical models, imaging-guided FUS techniques, and interdisciplinary approaches combining FUS with nanotechnology, gene therapy, or biomaterials.

Guest Editor

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