



Ultrasound-Mediated Delivery of Nanopharmaceuticals

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Message from the Guest Editors

Dear Colleagues,

A whole class of nanopharmaceuticals such as theranostic nanoparticles, liposomes, monoclonal antibodies, and viral vectors, are not able to effectively reach their targets due to the presence of biological barriers. Ultrasound-mediated drug delivery shows great potential in overcoming the blood-brain or blood-tumor barrier, enabling non-invasive and localized increase of the delivered dose, thereby enlarging the therapeutic window.

In this Special Issue, we invite contributions focused on both preclinical and clinical research on ultrasound-mediated delivery of nanopharmaceuticals. We also welcome numerical and experimental work on ultrasound- or heat-responsive theranostic agents, designed for concurrent imaging and therapy of neurodegenerative diseases, cancer, etc. Potential applications include but are not limited to targeted immunotherapies, neuromodulation, neurorestoration and neuroprotection, chemotherapeutic delivery, tumor tagging, and targeted micro-/nanobubbles.





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Message from the Editor-in-Chief

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