

Special Issue

Ultrasound-Mediated Drug Delivery: Micro- and Nanobubbles

Message from the Guest Editors

Ultrasound (US)-mediated drug delivery is a promising field in pharmaceuticals, leveraging micro- and nanobubbles to enhance the bioavailability and targeting of therapeutic agents. This approach capitalizes on the mechanical effects of US waves to temporarily disrupt biological barriers, facilitating drug permeation. The significance of this technique lies in its potential to improve treatment efficacy while minimizing systemic side effects. The aim of this Special Issue is to explore the latest advancements in US-mediated drug delivery, focusing on the design of micro- and nanobubbles, their interaction with biological tissues, and the optimization of US parameters for clinical translation. Contributions from multidisciplinary research are essential to advancing this technology towards precision medicine.

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