

Special Issue

Ultrasound-Mediated Drug Delivery

Message from the Guest Editor

The targeted delivery of pharmaceutical and biological agents to a tissue-of-interest is crucial for desired interventional outcomes; therefore, it is sought after as a subject of intense investigation by medical and scientific communities. Decades of research have revealed that mechanical and thermal energy of ultrasound, delivered to biological tissue in a region-specific and directional fashion, can be gainfully used to enhance the drug delivery. Combined with breakthroughs in acoustic physics/engineering and the advent of novel drug carriers, application of ultrasound, either in non-focused or focused form, provides more options in targeted drug delivery. To promote the exchange and dissemination of these exciting areas of research, we solicit manuscripts addressing how ultrasound can be used to enhance drug delivery, covering a wide range of research stages, spanning from basic bench science to translational and clinical studies. Examples of research include, but are not limited to, the development of novel ultrasound techniques, the testing of new delivery vehicles, and the utilization of ultrasound with existing pharmaceuticals.

Guest Editor

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