Special Issue

Ultrasound-Aided Drug Delivery

Message from the Guest Editor

Ultrasound has become an attractive means of drug delivery although sub-millimeter level spatial selectivity from ultrasound is not as ideal as cell level selectivity in smart drug delivery. An intriguing aspect of ultrasoundaided drug delivery is that a single predominant mechanism, a cavitation, appears to explain permeability changes from the cell membrane level (sonoporation) to organ level, Various cavitation seeds have been tried to induce cavitation in a more controllable manner while also providing enhanced stability and target selectivity. Additionally, a wide range of applications have been tried, from brain disease to skin disorders. Although individual target of ultrasoundaided drug delivery presents completely different constraints to still overcome, this method could provide a valuable means in medicine. This Special Issue invites manuscripts on subjects relating to various aspects of ultrasound-aided drug delivery, including new findings in mechanism, preclinical/clinical application works and breakthroughs in cavitation seeds.

Guest Editor

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