

Special Issue

Combining Ultrasound and Microbubbles/Nanobubbles for Enhancing the Effects of Cancer Therapies

Message from the Guest Editors

At present, there are different types of treatments for cancer. Patients receive adjuvant therapies based on their cancer type. In recent years, ultrasound-stimulated microbubbles/nanobubbles have widely been explored for their non-invasive nature and the potential to enhance the effects of existing cancer therapies, including radiation therapy, chemotherapy, and immunotherapy. Microbubbles/nanobubbles, when exposed to ultrasound waves, undergo several phenomena, such as expansion, compression, and even collision, facilitating several bioeffects. Several studies suggest that ultrasound and microbubbles/nanobubbles, when combined with cancer therapies, can lead to an additive or synergistic tumor response. After marking its success in preclinical studies, ultrasound-stimulated microbubbles/nanobubbles combined with cancer therapies are underway to demonstrate its impact on early-stage clinical trials. This Special Issue aims to cover the latest findings of tumor enhancement using ultrasound-stimulated microbubbles/nanobubbles and existing cancer therapies.

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