

Special Issue

Ultrasound-Enhanced Drug Delivery: Applications and Therapeutic Advances

Message from the Guest Editors

The goal of this Special Issue is to spotlight cutting-edge research that spans mechanistic studies, carrier design, modeling, preclinical investigations, and early-phase clinical trials. Contributions are encouraged in areas that include

- Ultrasound-mediated disruption to barriers to drug delivery (e.g., tumor microenvironment, BBB).
- Development of smart acoustic carriers for targeted delivery and controlled release.
- Sonodynamic and immune-enhancement therapies.
- Real-time image guidance and monitoring.
- Novel techniques such as ultrasound-activated drug synthesis or the intralesional delivery method.
- Basic biology, immunology, and physics investigations highlighting the effect of ultrasound on key signaling mechanisms.

We aim to connect fundamental insights with translational impact, supporting submissions that demonstrate improved pharmacokinetics/pharmacodynamics, safety profiles, and therapeutic outcomes leading toward clinical adoption. We invite original research, reviews, or communication articles that contribute to the evolving landscape of ultrasound-enhanced drug delivery. We look forward to your innovative work shaping the future of precision therapeutics.

Guest Editors

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