



Ultrasound-Mediated Drug Delivery: Micro- and Nanobubbles

Guest Editors:

Prof. Dr. Joseph Kost

Department of Chemical
Engineering, Ben-Gurion
University of the Negev, Beer-
Sheva 8410501, Israel

Dr. Tali Ilovitsh

Department of Biomedical
Engineering, Tel Aviv University,
Tel Aviv 6997801, Israel

Deadline for manuscript
submissions:

closed (20 December 2024)

Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Joseph Kost

Dr. Tali Ilovitsh

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Ernest Mario School of
Pharmacy, Rutgers, The State
University of New Jersey, William
Levine Hall, Room 225C, 160
Frelinghuysen Road, Piscataway,
NJ 08854-8020, USA

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

Contact Us

Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pharmaceutics
pharmaceutics@mdpi.com
X@MDPIpharma