

Special Issue

Ultrasound-Mediated Drug Delivery: Micro- and Nanobubbles

Message from the Guest Editors

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.

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)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/208735

Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)





Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)



About the Journal

Message from the Editor-in-Chief

Pharmaceutics (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceuticals and biopharmaceuticals. 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.

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).