

Special Issue

Vesicle-Based Drug Delivery Systems

Message from the Guest Editors

Ensuring safe and efficient drug delivery remains a critical challenge in pharmaceutical development. Recent advances in vesicle engineering, including liposomes, niosomes, exosomes, extracellular vesicles, and polymersomes, have significantly enhanced drug delivery strategies. These systems improve therapeutic efficacy by protecting active pharmaceutical ingredients (APIs) from degradation, minimizing side effects, enabling targeted delivery to disease sites, and controlling circulation time and release kinetics. Precise synthesis strategies for design can help to overcome biological barriers when applied through different administration routes, and remain key challenges that must be addressed to optimize treatment outcomes. This Special Issue will highlight current advancements in vesicle-based platforms designed to improve formulation pharmacokinetics. We invite contributions that explore innovative approaches in vesicle design, drug loading, synthesis, isolation, targeting (both active and passive), and functionalization strategies to address these challenges in vesicle delivery.

Guest Editors

Dr. Luciano Benedini

INQUISUR-CONICET-UNS/Department of Biology, Biochemistry and Pharmacy, Universidad Nacional del Sur, Bahía Blanca 8000, Argentina

Prof. Dr. Paula Messina

INQUISUR-CONICET-UNS/Department of Chemistry, Universidad Nacional del Sur, Bahía Blanca 8000, Argentina

Deadline for manuscript submissions

20 March 2026



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/248709

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, CAPlus / 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 14.9 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).