

Special Issue

Extracellular Vesicles as Drug Delivery Systems

Message from the Guest Editor

There is growing interest for extracellular vesicles (EVs) as tools for drug delivery. EVs are membrane vesicles released in cell medium and retrieved in every fluid of the body, representing a mean not only for the disposal of unwanted material, but also for cell communication. The discovery that EVs carry nucleic acids, mostly ncRNA but also mRNA, has demonstrated that they can be considered a mean of horizontal gene transfer. EVs are relatively stable in circulating body fluids as compared to synthetic lipid nanoparticles, and they can overcome natural barriers. These features have opened new perspectives for the use of EVs as drug delivery vehicles, including gene delivery. EVs from different sources have been loaded with drugs and nucleic acids. However, there are safety issues to solve and methodological problems to fix about EV isolation from different sources, separation from contaminants, and loading with drugs. In addition, molecular mechanisms underlying their targeting ability and circulation stability are far from being elucidated. The aim of this Issue of *Pharmaceutics* is to collect research and review articles dealing with the use of EVs for drug delivery.

Guest Editor

Dr. Lorena Urbanelli

Department of Chemistry, Biology and Biotechnology, University of Perugia, Via del Giochetto, 06123 Perugia, Italy

Deadline for manuscript submissions

closed (20 November 2021)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/36601

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
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, 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).