



Exosomes as Drug Carriers

Guest Editors:

Dr. Lucio Barile

Laboratory of Cellular and
Molecular Cardiology,
Cardiocentro Ticino Foundation,
Lugano, Switzerland

Prof. Dr. Sveva Bollini

Regenerative Medicine
Laboratory, Department of
Experimental Medicine,
University of Genova, 16132
Genova, Italy

Deadline for manuscript
submissions:

closed (31 July 2020)

Message from the Guest Editors

The discovery of exosomes (Exo) as natural carriers of functional small RNA and proteins has raised great interest in the drug delivery field. Exo deliver their surface proteins and luminal content to the recipient cells, thus it may be possible to exploit these vesicles for therapeutic delivery of RNAs and peptides. Synthetic drugs can also be encapsulated into Exo as they have a hydrophilic core, which makes them suitable to host water-soluble drugs. Targeted Exo can be obtained by displaying targeting molecules, such as peptides or antibody fragments recognizing target antigens, on the outer surface of Exo. Moreover, the fact that Exo are a natural product of the body, results in a low immune response. Finally, they show reduced long-term accumulation in organs or tissues, with relatively low systemic toxicity. This Research Topic is aimed: 1) at defining Exo loading strategies 2) at analyzing advantages of Exo-based drug delivery in terms of biocompatibility 3) at investigating the impact of Exo-based approaches vs. conventional drugs.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Patrick J. Sinko

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