



an Open Access Journal by MDPI

Drug Delivery Systems Based on Extracellular Vesicles

Guest Editors:

Dr. Yasunari Matsuzaka

Division of Molecular and Medical Genetics, Center for Gene and Cell Therapy, The Institute of Medical Science, The University of Tokyo, Minato-ku, Tokyo 108-8639, Japan

Prof. Dr. Yoshihiro Uesawa

Department of Medical Molecular Informatics, Meiji Pharmaceutical University, Tokyo 204-8588, Japan

Deadline for manuscript submissions:

closed (30 April 2023)

Message from the Guest Editors

Recently, emerging evidence that extracellular vesicles (EVs), including exosomes, play a critical role as new drug delivery systems and biomarkers has attracted attention. Through intercellular communications, EVs can mediate cargo transport, such as proteins, lipids, and nucleic acids, and particularly non-coding RNAs, leading to functional modulations of key molecules in both physiological and pathological conditions, such as proliferation, differentiation, apoptosis, inflammation, regeneration, or immune tolerance.

This Special Issue aims to highlight the latest research on the role, purification, biogenesis, and structure of EVs in physiological or pathological areas. The topics that we intend to cover include (but are not limited to) the following:

- Intercellular communications by EVs and miRNAs;
- Drug delivery systems through EVs;
- Purification, biogenesis, and structure of EVs.

We welcome both research and review articles and look forward to receiving your contributions.



mdpi.com/si/123021

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Spas D. Kolev

School of Chemistry, The
University of Melbourne,
Melbourne, VIC 3010, Australia

Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

Membranes is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. 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), Ei Compendex, PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Physical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/membranes
membranes@mdpi.com
[X@Membranes_MDPI](https://twitter.com/Membranes_MDPI)