

Special Issue

Biomimetic Nanoparticles for Disease Treatment and Diagnosis

Message from the Guest Editor

Biomimetic nanoparticles are a new group of nanoparticles that combine the functionality of biological materials with the flexibility of synthetic materials to overcome biological barriers and achieve improved targeting in complex biological systems.

These biomimetic platforms include cell membrane-coated nanoparticles, DNA nanodevices, and other hybrid nanoparticles. They have demonstrated significant potential to increase therapeutic efficacy in disease treatment and diagnosis by combining natural biological functionality with the ability of synthetic structures to transport imaging reporters and therapeutic cargo. In addition, the incorporation of cell-based biological materials offers benefits such as immune escape, prolonged blood circulation time, and specific/precise targeting. This Special Issue aims to provide a platform for prominent scientists from all over the world to showcase their work and discuss current progress in the use of biomimetic nanoparticles for biomedical applications.

Guest Editor

Dr. Tianqing (Michelle) Liu

NICM Health Research Institute, Western Sydney University, Sydney, NSW, Australia

Deadline for manuscript submissions

30 June 2026



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/156148

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).