

Special Issue

Nanoparticles for Targeting and Treating Macrophages

Message from the Guest Editor

Nanoparticles are nanomaterials with three external nanoscale dimensions with tunable physical, chemical, and biological characteristics. Regardless of the nanomaterial composition, macrophages can detect and incorporate these foreign bodies by phagocytosis. Recent investigations are taking advantage of this biological fact to design nanoparticles for specific macrophage targeting and treatment in a wide array of diseases. Macrophages are plastic cells from the innate immune system that play different roles in the development, homeostasis, tissue repair and immune response. Indeed, macrophage modulation is of vital importance in chronic inflammation, fibrosis, wound healing, and cancer. Nanoparticles can be modified by the addition of ligands to achieve specific macrophage targeting for drug or gene therapy. They can also be integrated in hydrogels or medical devices to attract and modulate macrophages and the innate immune response. The aim of this issue is to uncover all the different strategies to use nanoparticles to target and modulate macrophages.

Guest Editor

Dr. Pedro Melgar-Lesmes

1. Department of Biomedicine, University of Barcelona, 08007 Barcelona, Spain
2. August Pi i Sunyer Biomedical Research Institute (IDIBAPS), 08036 Barcelona, Spain
3. Institute for Medical Engineering and Science, MIT, Cambridge, MA 02139, USA

Deadline for manuscript submissions

closed (31 March 2023)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/113224

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).