

Special Issue

Nanotechnology and RNA-Based Technologies Applied to Prophylaxis and Advanced Therapies

Message from the Guest Editors

Various RNA technologies have revolutionized biotechnology by enabling the precise manipulation and understanding of genetic information. Techniques such as RNA interference (RNAi) and CRISPR-Cas9 utilize RNA molecules to target and modify specific genes, offering potential treatments for genetic disorders and cancers. mRNA vaccines, like those developed for COVID-19, showcase the power of RNA in rapidly producing effective vaccines. Overall, RNA technologies are paving the way for innovative therapies, diagnostics, and research tools in biotechnology. This Special Issue aims to cover the aspects of nanotechnology and RNA-based technologies applied to vaccines and treatments, including recent original research or reviews, based on any of the following themes:

- Nanotechnology for RNA applications;
- Lipid nanoparticles for mRNA vaccines and therapies;
- mRNA vaccines and therapies;
- RNA-based advanced therapies;
- RNAi for therapeutics.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Bruna Aparecida Souza Machado

SENAI Institute of Innovation (ISI) in Health Advanced Systems (CIMATEC ISI SAS), SENAI CIMATEC University Center, Salvador 41650-010, Bahia State, Brazil

Dr. Vinicius Pinto Costa Rocha

Institute of Innovation in Advanced Health Systems (ISI SAS), University SENAI/CIMATEC, Salvador 41650-010, Brazil

Deadline for manuscript submissions

20 November 2025



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/215195

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 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.

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).