

Special Issue

Microfluidic Synthesis for Novel Drug Delivery System

Message from the Guest Editors

We invite you to contribute to this Special Issue on microfluidic synthesis for drug delivery and gene therapy. Integrating polymeric, inorganic, lipid, and biomimetic nanoparticles with modern synthetic techniques, such as click chemistry, offers new opportunities for efficient and precise targeted therapies. The multivalency effect enhances binding and functionality, while *in silico* modelling optimizes nanoparticle design for efficacy and safety. This Special Issue aims to highlight cutting-edge research primarily in the microfluidic-based synthesis and application of nanoparticles for drug delivery and gene therapy. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Microfluidic synthesis techniques for nanoparticle production;
- Design and application of polymeric, lipid, inorganic, and biomimetic nanoparticles;
- Gene therapy strategies utilizing advanced nanoparticle systems;
- The multivalency effect in targeted therapy;
- Click chemistry applications in nanoparticle synthesis and functionalization;
- *In silico* modelling for nanoparticle design and optimization.

Guest Editors

Dr. Melissa Santi

NEST, Istituto Nanoscienze-CNR and Scuola Normale Superiore, Piazza San Silvestro 12, 56127 Pisa, Italy

Dr. Biagio Todaro

1. Department of Chemical Engineering, KU Leuven, Celestijnenlaan 200F, 3001 Leuven, Belgium

2. NEST Laboratory, Scuola Normale Superiore, Piazza San Silvestro 12, 56127 Pisa, Italy

Deadline for manuscript submissions

30 November 2024



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 7.9
Indexed in PubMed



mdpi.com/si/207026

Pharmaceutics
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 4.9
CiteScore 7.9
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 3.4 days (median values for papers published in this journal in the first half of 2024).