



## Design of Mesoporous Materials for Biomedical Application

Guest Editors:

**Dr. Carlotta Pontremoli**

Department of Chemistry, NIS  
Interdepartmental and INSTM  
Reference Centre, University of  
Torino, Via Giuria 7 and Via  
Quarello 15, 10100 Torino, Italy

**Prof. Dr. Sonia Fiorilli**

Department of Applied Science  
and Technology, Politecnico di  
Torino, 10129 Torino, Italy

Deadline for manuscript  
submissions:

**closed (10 April 2023)**

### Message from the Guest Editors

Dear Colleagues,

In the last decade, considerable attention has been addressed toward the use of a wide range of mesoporous materials for the development of advanced devices for biomedical applications. Their excellent intrinsic properties make them excellent candidates for storing several therapeutic molecules and releasing them to the target on demand after proper stimuli. Based on these considerations, these multifunctional nanocarriers are ideal candidates for the design of advanced scaffolds and smart drug delivery systems to treat cancer and compromised tissue healing or for theragnostic applications.

The final aim of this Special Issue is to provide an overview of the most recent advances and new approaches for the design, functionalization, and strategies to boost the clinical translation of mesoporous materials for advanced tissue engineering, cancer therapy, and theragnostics. Among them, this issue is devoted to focusing attention on their uses as multifunctional delivery systems to target and deliver therapeutic agents, including small molecular drugs, peptides, proteins, nucleic acids, as well as imaging agents and sensing molecules, directly to the pathological site.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,  
Ernest Mario School of  
Pharmacy, Rutgers University,  
Piscataway, NJ 08854, USA

## 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.

## 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), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

## Contact Us

*Pharmaceutics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pharmaceutics](http://mdpi.com/journal/pharmaceutics)  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)  
X@MDPIpharma