# **Special Issue**

# Nanomedicine and Biomimetic Drug Delivery Systems

### Message from the Guest Editors

In recent years, biomimetic nanomedicines arose as novel generation drug delivery systems bestowed with unexpected properties in terms of targeting diseased tissues, their ability to communicate with the biological milieu, and developing a biological response as is, even without the need for delivering a cargo. This Special Issue plans to give an overview of the most recent advances in the field of biomimetic drug delivery systems and nanomedicine, as well as of their applications in diverse areas, from immunology to personalized therapy. The Special Issue is aimed at providing selected contributions on advances in biomimetic nanomedicine synthesis and characterization, the evaluation of their interaction with the biological milieu (i.e., plasma proteins, immune systems cells, lymphoid organs, and immune-relevant organs), and their theranostic potential. Inputs on scalable manufacturing protocols, protein corona's involvement, and regulatory processes will enrich the discussion on the development and potentiality of such drug delivery systems.

#### **Guest Editors**

Dr. Roberto Molinaro

IRCCS San Raffaele Hospital, Milan, Italy

Dr. Claudia Corbo

Department of Medicine and Surgery, Center for Nanomedicine Nanomib, University of Milan Bicocca, 20854 Vedano al Lambro, MB, Italy

### Deadline for manuscript submissions

closed (31 December 2021)



# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



mdpi.com/si/57603

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/ nanomaterials





# **Nanomaterials**

an Open Access Journal by MDPI

Impact Factor 4.3 CiteScore 9.2 Indexed in PubMed



# About the Journal

### Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometerscale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, Nanomaterials, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

#### **Editor-in-Chief**

### Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

#### **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, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

