



Functional Polymers for Controlled Drug Release

Guest Editor:

Prof. Dr. Umile Gianfranco Spizzirri

Department of Pharmacy, Health and Nutritional Sciences,
University of Calabria, Cosenza,
Italy

Deadline for manuscript
submissions:

closed (31 July 2019)

Message from the Guest Editor

In the last decade, high-performing functional polymers for specific uses, including stimuli-responsive materials, molecularly imprinted polymers, mucoadhesive materials, carriers for the delivery of high MW drugs, and gene-delivery have emerged as one of the most significant trends in the area of nanotechnology. In this regard, polymeric devices that are able to undergo morphological modifications in response to an external stimulus (pH, redox balance, temperature, magnetic field, and light) represent an innovative field in the delivery of therapeutics. Additionally, a combination of two or more signals have been developed by incorporating different stimulus responsive elements into the same polymeric network with the aim to improve the *situ*-controlled delivery of bioactive compounds. These smart polymeric materials lead to superior *in vitro* and *in vivo* therapeutic efficacy, with programmed site-specific features and remarkable potential for targeted therapy. This Special Issue welcomes any topics regarding recent progress in the synthesis and characterization of innovative functional polymers suitable to be employed as drug carriers in the pharmaceutical and biomedical fields.





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 and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

Contact Us

Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pharmaceutics
pharmaceutics@mdpi.com
X@MDPIpharma