



## Development and Testing of Nanotechnology-Based Delivery Systems for Topical Drug Delivery to Wounds, Skin or Mucosa

Guest Editors:

### Dr. Fiorenza Rancan

Clinical Research Center for Hair and Skin Science, Department of Dermatology and Allergy, Charité—Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, 10117 Berlin, Germany

### Dr. Marco Contardi

1. Department of Earth and Environmental Sciences (DISAT), University of Milano—Bicocca, Piazza della Scienza, 20126 Milan, Italy  
2. MaRHE Center (Marine Research and High Education Center), Magoodhoo Island, Faafu Atoll 12030, Maldives

Deadline for manuscript submissions:  
**closed (15 November 2022)**



### Message from the Guest Editors

Dear Colleagues,

Efficient topical administration of drugs would improve the specificity of many dermatological conditions. However, low penetration, low stability and rapid clearance still hamper the development of efficient topical treatments. Nanotechnology-based delivery systems have been shown to improve drug bioavailability and even enable spatiotemporal control of drug release. Nanoparticles, gels or membranes based on lipids, polysaccharides, proteins or polymers are promising approaches for topical drug delivery. They can improve skin permeability, dissolve in a controlled manner and possess environmental sensitivity and specific targeting properties.

This Special Issue welcomes articles dealing with drug delivery to wounds, skin, or mucosa with special attention paid to the following topics:

- Novel synthesis of delivery systems, drug formulations
- Drug release, delivery studies
- Studies on the mechanism of drug transport across skin barrier
- In vitro, ex vivo, or in vivo tests of efficacy
- Targeting of specific cell populations or intracellular targeting

Dr. Fiorenza Rancan  
Guest Editor



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Patrick J. Sinko

Ernest Mario School of  
Pharmacy, Rutgers, The State  
University of New Jersey, William  
Levine Hall, Room 225C, 160  
Frelinghuysen Road, Piscataway,  
NJ 08854-8020, 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](http://www.mdpi.com)

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