

Special Issue

Nanomedicine across Barriers

Message from the Guest Editors

Nanomedicine delivery systems are a hot topic across every field of disease treatment. Of these, lipidic and polymeric nanoparticles have become one of the leading fields. They have been modified and improved to increase stability, drug loading and compatibility, and bioavailability through improved synthesis or conjugation with other molecules; however, the major problem remains of how to further improve the delivery of these particles efficiently to the diseased site. Novel methods of surpassing the bodies' major barriers are needed to improve efficacy, lower toxicity, and off-target effects and create clinically applicable nanomedicine treatments to cure diseases. In this Issue, we want to highlight recent nanomedical carrier advances for the ability to overcome the bodies' natural barriers for improved treatment. Advances in lipidic and polymeric nanoparticles to overcome the following barriers are of the highest interest: blood–brain barrier, nasal delivery, ocular delivery, topical delivery across the skin, and pulmonary delivery.

Guest Editors

Prof. Barbara Ruozzi

Department of Life Science, Università degli Studi di Modena e Reggio Emilia, Modena, Italy

Dr. Jason Thomas Duskey

NanotechLab., Te.Far.T.I. Lab., University of Modena and Reggio Emilia, Modena, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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