



Hybrid Multifunctional Drug Delivery Systems

Guest Editors:

Assist. Prof. Alexandra Teleki

Department of Pharmacy,
Uppsala University, Uppsala,
Sweden

Prof. Dr. Jessica Rosenholm

Pharmaceutical Sciences
Laboratory, Faculty of Science
and Engineering, Åbo Akademi
University, Turku, Finland

Prof. Dr. Line Hagner Nielsen

DTU Health Tech, Department of
Health Technology, Technical
University of Denmark, 2800 Kgs.
Lyngby, Denmark

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Message from the Guest Editors

Dear Colleagues,

The vast array of today's nano- and microparticle platforms include polymeric nanoparticles, lipid carrier systems as well as different types of inorganic particles. Hybrid drug carriers are the next frontier in the development of novel, multifunctional drug delivery systems, as they benefit from the synergistic properties of the individual components. Typical examples include functionalization of inorganic particles with organic constructs combining structural robustness with functional responsiveness. This course of action is usually taken in order to enhance drug encapsulation efficiency and to control drug release, or for the design of theranostic nanomaterials for simultaneous imaging and therapy.

This Special Issue aims to highlight recent advances in hybrid multifunctional drug delivery systems, with a focus on particle-based systems, ranging from synthesis methods and process understanding, their detailed physicochemical characterization and performance in vitro and in vivo, especially for controlled and/or targeted drug delivery applications.

Assist. Prof. Alexandra Teleki
Prof. Jessica Rosenholm
Assoc. Prof. Line Hagner Nielsen
Guest Editors





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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

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

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Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
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