Special Issue

Application of Polymeric Micelles for Drug and Gene Delivery

Message from the Guest Editors

Polymeric micelles have been extensively studied because of their ability to transfer biologically active agents, such as drugs and nucleic acids. Polymeric micelles are able to effectively solubilize hydrophobic drugs in their core, providing large encapsulation efficiency, high bioavailability, as well as controlled and targeted drug release. The micellar shell protects the hydrophobic part from the biological invasion but, similar to the core, is also able to accommodate active substances of appropriate nature or genes and nucliec acids and to serve as a carrier. Additionally, the specific micellar structure could be easily modified, allowing a target design of polymeric delivery systems.

The aim of this Special Issue is to overview and to summarize the current state of research of the application of polymeric micelles for drug and gene delivery.

- polymeric micelles
- micelleplexes
- drug delivery
- gene delivery
- drug release
- nanomedicine
- gene therapy
- theranostics

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Deadline for manuscript submissions

closed (31 May 2024)

Pharmaceutics

an Open Access Journal by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed

mdpi.com/si/137734

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Indexed in PubMed

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