

Special Issue

Application of Polymeric Micelles for Drug and Gene Delivery, 2nd Edition

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 biological invasion, but, similar to the core, it is also able to accommodate active substances of appropriate nature or genes and nucleic acids and serve as a carrier. Additionally, the specific micellar structure could be easily modified, allowing for the target design of polymeric delivery systems. In this regard, the design and utilization of polymeric micelles to transport and deliver drugs and nucleic acids are active research areas undergoing continuing development. The aim of this Special Issue is to provide an overview of and summarize the current state of research of the application of polymeric micelles for drug and gene delivery.

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