

Special Issue

Recent Advances in Biomedical Application of Polymeric Micelles

Message from the Guest Editors

In recent years, nanomedicine has emerged as a dynamic field within medicine, focusing on nanoscale systems that hold great promise for drug delivery and therapy. Among these systems, polymeric micelles (PMs) have garnered significant attention. PMs are colloidal dispersions of amphiphilic compounds that self-assemble in an aqueous medium, forming a unique core-shell architecture. Their hydrophobic core can encapsulate poorly soluble drugs, while the hydrophilic shell provides stability and steric protection. Notably, PMs are small in size, enabling efficient absorption through the intestinal mucosa and targeted drug transport in the bloodstream. This Special Issue explores advanced applications of PMs, shedding light on their potential in enhancing drug solubility, stability, and pharmacokinetics. This Special Issue aims to compile the most recent advances in the application of polymeric micelles for drug/iRNA co-delivery, with a particular focus on their encouraging applications in new drug formulations and the regulation of the immune system.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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