

Special Issue

Therapeutic Polymers for Drug Delivery

Message from the Guest Editors

Polymeric materials have been applied for decades in therapeutic applications such as drug delivery and tissue regeneration, mainly due to their biocompatibility and suitable mechanical properties. Polymeric therapeutics encompass, at the same time, drug-polymer conjugates, polymer-protein conjugates and supramolecular drug-delivery systems based on well-defined multivalent and dendritic polymers. In case of polymer-drug conjugates, they have been used as bioactive pharmaceuticals owing to their increased drug efficacy, solubility, and target specificity. On the other hand, several polymer-protein conjugates made by anchoring enzymes or biologically relevant proteins to polyethylene glycol components have demonstrated a significant improvement in stability and pharmacokinetic properties. This Special Issue will cover a variety of polymer-based therapeutics in greater detail, including noncovalent and covalent polymeric delivery vehicles (nanoparticles, liposomes, dendrimers), polymer sequestrants, and polymerized drugs, and the recent advances in this emerging area.

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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