



Therapeutic Polymers for Drug Delivery

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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.





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Message from the Editor-in-Chief

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