

Special Issue

Synthetic Polymers in Drug Delivery Systems

Message from the Guest Editors

The use of synthetic polymers for obtaining systems capable of encapsulating, transporting, and delivering drugs in a sustained/controlled manner is a field of great interest, as evidenced by the fact that extensive research has been conducted in recent decades. Despite the diversity of modern synthetic polymers, only a limited number of them can be used for biomedical purposes since they must be biocompatible, non-cytotoxic, often biodegradable and bioresorbable. However, the modulation of their structure, molecular weight, functionality and physico-chemical properties can create a wide range of drug-carrying formulations, explaining the growing interest in synthetic polymers. This Special Issue aims to present the latest findings regarding biologically active principle systems of synthetic polymers in different formats, including tablets, hydrogels, biocomposites, micro- and nanoparticles, micro- and nanocapsules, nanofibers, micelles, polymersomes, inserts, implants, nanoemulsions, etc. Regular research articles and reviews will be accepted for publication in this Special Issue.

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