

Special Issue

Polymer-Based Micro- and Nanocarriers for Drug Delivery and Targeting

Message from the Guest Editors

Over the last fifty years, the development of biodegradable polymeric materials for pharmaceutical applications has advanced significantly. In the same way, the development of drug delivery systems based on natural and synthetic polymers exhibits exponential growth in pharmaceutical and biomedical fields. Thanks to the tunable properties of polymeric biomaterials, carriers with different structure, size, shape, and surface charge can be obtained. Therefore, different kinds of micro- and nanosystems can be produced from polymeric materials using a wide variety of fabrication techniques. The pharmaceutical application of polymeric carriers is also crucial in diagnostics as well as in prophylaxis (vaccines) and therapy for various pathological conditions. Based on the current and continuing relevance of this category of drug delivery systems, and looking ahead, this Special Issue will give readers a concise overview of the recent innovative design and application of controlled-release polymeric drug delivery systems. Topics including detailed physico-chemical and technological characterization of innovative polymeric systems and in vitro/in vivo correlations are warmly welcomed.

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Deadline for manuscript submissions

closed (30 September 2022)



Pharmaceutics

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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/103523

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