Special Issue

Polymer-Based Nanoparticles for Oral Delivery of Drugs, Bioactives and Vaccines

Message from the Guest Editor

Today's nanomedicine benefits largely from the use of a variety of drug delivery systems based on polymeric nanoparticles. Despite the consensus of advantageous high compliance, flexibility in dosage design and reduced costs, the oral route of administration still represents a challenge, especially due to the resulting poor bioavailability. Currently, research on oral drug delivery systems focuses on improved and functional nanoparticles designed to overcome gastrointestinal challenges and provide effective drug targeting.

Polymer-based micro- and nanoparticles are those that have at least one component in their structure that is a polymer, which can be synthetic or of natural origin, as well as biopolymers, polyelectrolytes, and polypeptides. Hence, particles can be hybrids and contain, for instance, lipids or metals.

The design of micro- and nanoparticles for encapsulation, delivery, their characterization, toxicity studies, in vitro and in vivo interaction with the biological milieu, human and veterinary applications, and controlled release and targeting, all focused on oral administration will be considered. Experimental, theoretical, and review articles are welcome.

Guest Editor

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Editor-in-Chief

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