

Special Issue

Polymeric Nanocapsules in Drug Delivery

Message from the Guest Editors

Polymeric nanocapsules (NCs) are widely used as drug nanocarriers for the delivery of diverse molecules. Nanocapsules are vesicular systems, containing in general a lipid-based core surrounded by a polymeric wall. Many research projects have enabled the modification of nanocapsule surfaces, improving long-circulating properties, increasing immune stimulation, and particularly, decorating the surface with ligands such as small molecules, antibodies, and peptides, with the aim to increase site-specific drug delivery. Furthermore, nanocapsules have been demonstrating outstanding physicochemical characteristics, as delivery systems to load a plethora of substances and macromolecules. NCs allow fine-tuning of surface hydrophilicity, easy production, and scalability. All of these attributes contribute to making nanocapsules one of the most important and efficient drug delivery systems under consideration in the pharmaceutical area. The scope of this Special Issue aims to cover the major features of polymeric nanocapsules systems in drug delivery including: characterization methods, drug release and delivery properties, Biodistribution, Efficacy studies and so on.

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