

Special Issue

Polymer Nanoparticles for Delivery of Therapeutic Proteins

Message from the Guest Editor

The encapsulation of therapeutic proteins into nanoparticles comes to the front line as a strategy to overcome the problems associated with therapeutic protein delivery. Among the different encapsulating materials found in the literature, polymers both from natural and synthetic sources are some of the most important ones due to their versatility, biocompatibility, biodegradability, and ability to tailor the production of nanoparticles. Polymer nanoparticles are optimal materials for therapeutic protein delivery because they can protect the structure of the loaded protein, to deliver it in a sustained, controlled or targeted manner, and to promote the uptake of proteins through biological barriers. Furthermore, the combination of polymer nanoparticles with other encapsulating materials and excipients have been demonstrated to be a good strategy, to enhance the bioavailability of therapeutic proteins and improve the treatment of several diseases.

This Special Issue aims to provide an overview of the recent advances on the delivery of therapeutic proteins using polymer nanoparticles, focusing on promising strategies that allow improving therapies and patients' quality of life.

Guest Editor

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