

Special Issue

Chitosan-Based Nanoparticles as Carriers for Drug Delivery and Biomedical Applications

Message from the Guest Editors

Dear colleagues, Chitosan is a promising biomaterial used in the development of different types of health technologies. Due to its mucoadhesive and cell membrane modulating properties, nanoparticles produced from chitosan are extensively researched as an alternative carrier system for different routes of administration. This Special Issue is dedicated to the publication of original articles and reviews focused on the science and technology of chitosan-based nanoparticles for drug delivery and other biomedical applications. Research works that provide updates on the scientific foundations that guide the formation of chitosan nanoparticles and the main mechanisms of biological interaction are welcome. Furthermore, equally relevant are studies that aim to further advance the technological development of chitosan nanoparticles as a platform for treating different types of diseases. The relevant topics include pre-formulation studies; questions about production and scale-up; problems relating to quality control, stability studies and regulatory systems; new applications; and anti-cancer, anti-inflammatory and nanotoxicological effects.

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