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Nanoparticles: The Future of Drug Delivery

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Deadline for manuscript submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

The emergence of nanotechnology has paved the way for the precise treatment of different diseases due to its intrinsic physicochemical properties. In this Special Issue, Nanotechnology focuses on nanoscale particles under 200 nm diameter and their delivery systems. Current drug deliverv nanosystems includes liposomes. solid nanoparticles, nanoparticles, polymeric micelles, nanogels, and extracellular vesicles. Therapeutic agents can be loaded into the core or onto nanoparticle surface via chemical conjugation, physical encapsulation, electrostatic adsorption. This process allows for the extended blood circulation of drugs. enhanced bioavailability, improved therapeutic responses, and reduced side effects. However, the designed nanosystems also face various challenges, including intrinsic toxicity, offtarget effects and obstacles for clinical transformation. Accordingly, this Special Issue seeks to showcase research papers and review articles that focus on developments on novel nanosystems and their use in various biomedical applications. Moreover, comprehensive studies on the toxicity, degradation and metabolism nanoparticles are also welcome.













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Editor-in-Chief

Message from the Editor-in-Chief

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