

Special Issue

Nanomedicine for Diagnostic and Therapeutic Application

Message from the Guest Editors

The continuous development of nanotechnology has led to the establishment of highly sophisticated nanomedicine strategies with transformative potential in healthcare. These nanosystems offer advanced approaches for both diagnostic and therapeutic applications, enhancing precision, efficacy, and safety. This Special Issue aims to gather cutting-edge research on the design, development, and application of nanomedicine. The integration of nanotechnology in diagnostics allows for the highly sensitive detection of biomarkers, imaging contrast enhancements, and real-time monitoring of disease progression. Similarly, nanotherapeutics is revolutionizing drug delivery, enabling targeted treatments, reducing side effects, and improving patient outcomes. We invite researchers to contribute their original research articles, reviews, and short communications addressing recent advances, challenges, and future directions in this field. Suitable topics include, but are not limited to, synthesis, characterization, and in vitro and in vivo studies which involve biomolecular assays of polymeric and lipid nanoparticles for targeted drug delivery and diagnostic and/or theranostic applications.

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