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Applications of Nanotechnology in Diagnosis and Therapy

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Message from the Guest Editors

Dear Colleagues,

This Special Issue provides a comprehensive platform for researchers and professionals engaged in the design, synthesis, characterization, and application of nanomaterials for targeted drug delivery systems. It encompasses a wide range of topics including the development of nanomaterial-based drug carriers such as nanoparticles, liposomes, dendrimers, and micelles, with a focus on their functionalization and surface modification to achieve enhanced stability, solubility, and bioavailability. This issue also explores the utilization of nanotechnology approaches for targeted drug delivery, encompassing active targeting strategies, ligand–receptor interactions, computer-aided drug delivery, and nanomaterials for drug delivery to specific cells, tissues, organs, or disease sites.