

Special Issue

Dendrimer-Mediated Drug, Gene, and Protein Delivery for Disease Treatment

Message from the Guest Editors

Dendrimers are highly branched, nanoscale macromolecules characterized by well-defined architectures, internal cavities, and numerous surface functional groups. These unique features make them excellent candidates for biomedical delivery applications. Their structural versatility allows for the encapsulation or conjugation of various therapeutic agents, including small-molecule drugs, genes, and proteins. Recent advances in dendrimer-based delivery platforms have enabled the targeted and controlled release of therapeutic agents, thereby enhancing therapeutic efficacy and reducing systemic toxicity. Through surface modification, dendrimers can be tailored to recognize specific cellular targets or respond to environmental stimuli such as pH or enzymes. These features have been widely utilized in the treatment of cancer, inflammatory diseases, and infectious diseases. This Special Issue focuses on recent advances in dendrimer-mediated delivery systems and their applications in precision medicine, with particular emphasis on their potential role in addressing complex therapeutic challenges.

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