

Special Issue

Functional Polymers for Targeted Therapeutics and Gene Delivery

Message from the Guest Editors

Due to the broad types of available polymers and their possible modifications, polymeric materials play a great role in biomedicine. Polymers can have many applications, serving as materials for implants, antimicrobial agents, scaffolds for cell culture in regenerative medicine, as well as carriers delivering nucleic acids or other drugs. Some types of polymers have been shown to be effective in delivering nucleic acids (DNA and RNA), peptides, and other chemical compounds into mammal and bacterial cells. Especially the potential of some polymers for delivering nucleic acids makes them important non-viral vectors, with great potential for being used in many types of nucleic acid-based therapies. This Special Issue aims to highlight the use of polymers and nanoparticles for targeted nucleic acid delivery for gene therapy as well as in delivering other therapeutic agents in other types of targeted therapies. We look forward to receiving your contributions.

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