

Special Issue

Biopolymers in Drug and Gene Delivery Systems 2.0

Message from the Guest Editor

Biopolymers usually refer to natural polymers (mainly polysaccharides, proteins, and nucleic acids) produced by living organisms. In this Special Issue, this definition is extended to include semi-synthetic polymers (modified natural polymers) and synthetic polymers, which are biocompatible and biodegradable and can thus be used to design drug delivery systems. This Special Issue invites authors from multidisciplinary fields to submit original research and up-to-date reviews on fundamental and applied aspects of the design, characterization, and properties of biopolymeric drug and gene delivery systems. Recent advances in polymer chemistry and technology have produced new functional biopolymers and smart nanomaterials with the potential to significantly improve the effectiveness of drug delivery. Ultimately, these materials could improve the treatment of severe diseases such as cancer, diabetes, and neurodegenerative and cardiovascular diseases. We hope that this Special Issue will contribute to the diffusion of new knowledge.

Guest Editor

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