

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.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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