

Special Issue

Emerging Horizons of Innovations, Mechanisms, and Translational Prospects of Chitosan-Based Drug Delivery Therapeutic Interventions

Message from the Guest Editor

Chitosan, a nature-derived biopolymer in the form of polysaccharide, has emerged as a multifunctional biopolymer in drug and biomedical applications. Its biocompatibility, biodegradability, mucoadhesive properties, and susceptibility to chemical modification make it a very promising platform for novel drug delivery uses. With growing need for green biomaterials and precision medicine, chitosan remains an emerging compound in targeted, controlled, and responsive delivery of drugs and diagnostics. This Special Issue highlights the latest developments, challenges, and translational results in the design, functionalization, and biomedical utilization of chitosan-based carriers for biomedical, imaging, and therapeutic outcomes. Multidisciplinary perspectives ranging from chemistry, materials science, pharmaceuticals, biomedical engineering, and biotechnology are particularly encouraged.

Guest Editor

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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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