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Polysaccharide Gels: Application in Drug Delivery

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Deadline for manuscript submissions:
closed (30 June 2025)

Message from the Guest Editors

Dear Colleagues,

The application of polysaccharide gels in drug delivery is a significant area of research with wide-ranging implications. Polysaccharides offer unique properties that make them attractive for drug delivery applications. These biocompatible and biodegradable materials can form gels through various mechanisms, including physical interactions, chemical crosslinking, or environmental stimuli. In drug delivery, polysaccharide gels serve as versatile matrices for encapsulating and delivering therapeutic agents. They can control the release of drugs, protect them from degradation, and target specific sites within the body. Additionally, polysaccharide gels can be engineered to respond to physiological cues, enabling a triggered release of drugs in response to changes in pH, temperature, or enzyme activity.

This Special Issue on polysaccharide gels in drug delivery explores the latest advancements, challenges, and opportunities in this field. It covers topics such as the design and characterization of polysaccharide-based delivery systems, strategies for enhancing drug loading and release kinetics, and the application of polysaccharide gels in treating various diseases.

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Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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