Topical Collection

Bioactive Polysaccharides

Message from the Collection Editor

In the biopolymers family, polysaccharides are without a doubt the most complex and varied biomolecules from a structural and application point of view. In fact, as largely described, depending on biotope (microbial, plant, animal, macro-, and microalgas), polysaccharides can be described as high-molecular-weight (HMW) or low-molecular-weight (LMW) linear and/or substituted and/or branched polymers. Therefore, due to this high structural diversity, it is important to study the biological properties of polysaccharides from many existing and unexplored biotopes in a relationship between chemical structure and biological function in order to discover new pharmaceutical biobased molecules.
Consequently, we welcome original research and review papers describing structural and bioactives polysaccharides and derivatives (hydrogels, grafting polysaccharides, oligosaccharides, etc.) from physico-chemical and/or enzymatical processes. In this topical collection, articles on polysaccharides' biological mechanism of action are mostly welcome.

Collection Editor

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Polysaccharides

an Open Access Journal by MDPI

Impact Factor 5.5
CiteScore 9.7

mdpi.com/si/50048

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About the Journal

Message from the Editor-in-Chief

Polysaccharides and their derivatives are ubiquitous biopolymers, and therefore in recent years their potential use has increasingly been explored. *Polysaccharides* are still the biggest class of biopolymers used in classical industries such as the paper and textile industry. The progress and fundamental aspects of the new synthesis pathways and derivatization routes, characterization, properties, as well as processing of polysaccharides is important for their possible application in modern sustainable functional materials and future green technologies.

Editor-in-Chief

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Author Benefits

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Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (Engineering (miscellaneous))

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