

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 bioactive 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

Dr. Cédric Delattre

1. Institut Universitaire de France (IUF), 1 rue Descartes, 75005 Paris, France
 2. Clermont Auvergne INP, CNRS, Institut Pascal, Université Clermont Auvergne, 63000 Clermont-Ferrand, France
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Polysaccharides

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 9.7



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Polysaccharides
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polysaccharides@mdpi.com

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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

Prof. Dr. Karin Stana Kleinschek
Institute for Chemistry and Technology of Biobased Systems, Graz
University of Technology, 8010 Graz, Austria

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 36.4 days after submission; acceptance to publication is undertaken in 4.5 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

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