

Special Issue

New Trends and Challenges in Polysaccharide Biomaterials

Message from the Guest Editors

Polysaccharide-based materials exhibit excellent natural biocompatibility and biodegradability, and they have received increased research attention due to their unique structural diversity. Due to their ability to form cross-linked multidimensional structures, they are widely used as components in pharmaceutical, biomedical, biotechnological products, and as materials for environmental purposes. The field of application of polysaccharides is very wide, ranging from their use in medicine, through food products, to cosmetics and biomedical usage, and still meets new targets. The presence of numerous hydroxyl and optionally carboxyl or amino groups along the polymer chains enables their chemical functionalization, thus extending their exploitation opportunities. This Special Issue aims to highlight the basic as well as applied aspects of advanced polysaccharide research in various research areas and present new trends and challenges related to the use of polysaccharide biomaterials, including, but not limited to, medicine, biochemistry, food chemistry, drug delivery, and environmental science, in the paper industry and biorefinery.

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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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