Special Issue

Latest Research on Polysaccharides: Structure and Applications

Message from the Guest Editor

Polysaccharides, comprising monosaccharide units joined by glycosidic linkages, are the most abundant macromolecular polymers essential for organism development. Recent investigations have demonstrated that polysaccharides derived from plants, microorganisms, and algae present significant biological and pharmacological activities, including antioxidant, anti-diabetic, anti-cancer, immunomodulatory, hypolipidemic, and gut microbiota modulation properties. The role of polysaccharides is typically evident during gastrointestinal digestion or subsequent colonic fermentation, making it necessary to elucidate their accessibility and impact on microbiota modulation. The current Special Issue “Latest Research on Polysaccharides: Structure and Applications”, is designed to assemble cutting-edge research on the innovative preparation, structural characterization, bioaccessibility, bioactivity assessment, and application of polysaccharides. Contributions that establish the correlation between the structure and functionality of polysaccharides are particularly encouraged.

Guest Editor

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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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