Special Issue

The Extraction, Structure and Bioactivities of Plant Polysaccharides

Message from the Guest Editor

Increasing numbers of in vivo and vitro studies have suggested that oral bioactive polysaccharides can directly improve anti-cancer, anti-immune-response, anti-bacterial, hypoglycemic, or antioxidant abilities of food ingredients. Polysaccharides exhibit a molecular structure that can be linear or highly branched, composed by the same (homopolysaccharide) or different (heteropolysaccharide) monosaccharide units. Structural differences confer distinct physical and chemical properties. In addition, most natural polysaccharides, as dietary fiber, could regulate gut microbiota and the associations of gut microbial dysbiosis with prevalent metabolic diseases. Thus, there is an urgent need to further explore the structure and bioactivities to polysaccharides, which have been implicated in diabetes, obesity, hyperuricemia, cardiovascular, and other metabolic diseases.

The Special Issue, entitled 'The Extraction, Structure and Bioactivities of Plant Polysaccharides', will discuss the recent advances in the structure–function relationships of natural polysaccharides. Both relative reviews and research papers are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2025)

Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/227130

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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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