

Special Issue

Food Polysaccharides: Molecular Structure, Bioactive Properties, and Emerging Applications

Message from the Guest Editor

Food polysaccharides, as natural macromolecules, have attracted considerable interest in food science and medicine due to their unique molecular structures and biological activities. Recently, extensive research has been conducted on the molecular characteristics and mechanisms behind the biological functions of these polysaccharides. These studies have clarified the relationships between their structures and functions, offering innovative approaches for their use in emerging areas such as functional foods, drug delivery systems, and biomaterials. Although many studies have highlighted the health benefits of food polysaccharides—including immune modulation, antioxidant effects, and anti-cancer properties—there are still inconsistencies in the findings and perspectives across different research. Technological advances in materials science and nanotechnology provide new possibilities to improve the functional applications of polysaccharides. This Special Issue invites contributions on the structure, function, and applications of polysaccharides. Key topics include their nutritional roles, biological mechanisms, and advances in nanomaterials for drug delivery and biosensing.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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