

## Special Issue

# The Biological and Functional Properties of Polypeptides and Polysaccharides Isolated from Food Sources

### Message from the Guest Editor

In recent years, there has been a significant surge of interest in exploring potential health benefits derived from natural food components, particularly polypeptides and polysaccharides. These bioactive compounds are gaining recognition for their diverse biological activities, which include antioxidant, anti-inflammatory, immunomodulatory, and antimicrobial effects. The scientific community is increasingly focusing on elucidating the mechanisms through which these natural bioactives exert their effects. This Special Issue aims to provide a comprehensive platform for researchers to share their latest findings on the biological and functional properties of polypeptides and polysaccharides isolated from food sources. We invite submissions of original research articles, comprehensive reviews, and insightful perspectives that address, but are not limited to, the following potential topics:

- **Extraction and purification techniques**
- **Structural characterization**
- **Biological activities**
- **Functional properties**
- **Health benefits**
- **Gut health and microbiota modulation**
- **Applications in functional foods**
- **Microbial fermentation**
- **Allergenicity and safety assessment**
- **Omics approaches**

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### Guest Editor

Dr. Haizhao Song

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### Deadline for manuscript submissions

21 July 2026



## Foods

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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.

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### Editor-in-Chief

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