

Special Issue

Plant-Derived Bioactives: Antioxidant Mechanisms and Preventive Health Strategies

Message from the Guest Editor

This Special Issue examines the emerging applications of plant-derived bioactive compounds for human health promotion, exploring their antioxidant effects and preventive health applications. Plant bioactive compounds, including phenolic acids, flavonoids, alkaloids, carotenoids, and terpenoids, demonstrate strong antioxidant properties that protect cells from oxidative stress and damage. The development of chronic diseases, including cardiovascular disorders, cancers, and neurodegenerative diseases, is linked to oxidative stress. The protective mechanisms of these bioactive compounds require full elucidation to effectively facilitate their use in health-promoting interventions. This Special Issue seeks to examine current research about plant-derived bioactive substances, including their identification, characterization, and their mechanisms of action. This Special Issue will demonstrate how these substances contribute to creating preventive health strategies and therapeutic applications. We welcome submissions of original research and review articles.

Guest Editor

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Message from the Editor-in-Chief

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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