

Special Issue

Antioxidant and Antibacterial Properties of Phytochemicals

Message from the Guest Editors

This Special Issue emphasizes the significance of phytochemicals as bioactive compounds derived from plant sources, including fruits, vegetables, grains, nuts, herbs, and other plant-based foods. Phytochemicals exhibit biological activity when ingested by humans. Over the past two decades, bioactive phytochemicals have been extensively investigated through in vitro and in vivo models, yielding valuable insights into the structure–function relationships that may underlie their disease risk-reducing properties. These findings underscore the potential of phytochemicals as integral components of dietary strategies aimed at promoting health and preventing chronic diseases. Concurrently, many phytochemicals exhibit significant antibacterial activity against a range of pathogenic microorganisms. Many phytochemicals also exhibit noteworthy antibacterial properties against various pathogenic microorganisms, positioning them as promising alternative therapeutic agents. We invite scientists who want to present their phytochemical-based solutions, optimizing the antioxidant and antibacterial properties of such agents, to submit their work to this Special Issue.

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Deadline for manuscript submissions

20 November 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/221977

*International Journal of
Molecular Sciences*
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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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