

Special Issue

The Mechanism of Action of Food Components in Disease Prevention 2020

Message from the Guest Editor

Chronic diseases continue to increase despite increased nutrition awareness. A diet enriched in fruits, vegetables is known to reduce the incidences of chronic diseases. Diet is a major source for several essential molecules in conjunction with antioxidant enzymes, providing protection from deleterious reactive oxygen species (ROS). However, a detailed understanding on the mechanism of action of nutraceuticals leading to disease prevention is needed. Inflammation is recognized as the initiation point for several forms of cancer and chronic diseases. Diet- and lifestyle-related risk factors are risk factors for cancer. The activation of major inflammatory pathways involving Nf- κ B, STAT3, etc., is associated with most cancers. In addition to the modulation of inflammation-related cytokine signaling and gene expression, nutraceuticals act through epigenetic mechanisms. Thus, dietary antioxidants are compelling candidates for use as nutraceuticals in order to enhance the function of the antioxidant defense system during normal living conditions, thus preventing inflammation and decreasing the chances of developing chronic diseases.

Guest Editor

Prof. Dr. Gopinadhan Paliyath

Department of Plant Agriculture, University of Guelph, Guelph, ON N1G 2W1, Canada

Deadline for manuscript submissions

closed (31 March 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/73988

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

ijms



About the Journal

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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)