



## Plant Derived Anti-cancer Bioactive Molecules

Guest Editor:

**Dr. Katarzyna Kotwica-Mojzych**

Chair of Fundamental Sciences,  
Department of Histology,  
Embryology and Cytophysiology,  
Medical University of Lublin,  
Radziwiłłowska 11, 20-080 Lublin,  
Poland

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editor

Dear Colleagues,

To date, at least 78 plant-derived compounds, also called phytochemicals, have been found to show anti-cancer activity. These include alkaloids, flavonoids, terpenes, isoflavones, and phenols. Some of these compounds have been successfully used in current treatment regimens and some are still under investigation for use in cancer cell lines. The antiproliferative activity of bioactive molecules is also associated with their inhibition of certain intracellular signaling pathways that play a key role in development and maintenance of cancer cells. Moreover, natural molecules, due to their relatively low toxicity compared to synthetic compounds, are currently an attractive therapeutic target in cancer treatment.

This Special Issue of the International Journal of Molecular Sciences is dedicated to all research types, including both original and review articles, exploring new or already known plant-derived anti-cancer compounds with special attention paid to their mechanisms of action in cancer cells and their safety profile.





an Open Access Journal by MDPI

## 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

## 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.

## 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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI