

## Special Issue

# Recent Advances in Bioactive Compounds in Human Health

### Message from the Guest Editor

The growing interest in bioactive compounds, particularly those derived from food and by-products, is transforming our understanding of how diet impacts human health. Bioactive compounds such as antioxidants, polyphenols, and modified carbohydrates play critical roles in preventing chronic diseases, enhancing immune function, and promoting overall health. Innovative technologies, such as encapsulation and food fortification, are rapidly evolving to maximize the stability and efficacy of these compounds in functional foods. This Special Issue invites contributions exploring the molecular aspects of bioactive compounds, focusing on their isolation, characterization, and potential health benefits. We particularly encourage submissions on the utilization of food by-products, novel food processing techniques, and advancements in food chemistry and technology. Submissions may include original research, reviews, or perspectives that advance our molecular understanding of bioactive compounds and their applications in food and nutrition science. This Special Issue is supervised by and assisted by Dr. Marek Kruczek (University of Agriculture in Krakow).

---

### Guest Editor

Prof. Dr. Dorota Gumul

Department of Carbohydrate Technology and Cereal Processing,  
Faculty of Food Technology, University of Agriculture in Krakow, ul.  
Balicka 122, 30-149 Krakow, Poland

---

### Deadline for manuscript submissions

20 October 2026



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/229430](https://mdpi.com/si/229430)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto: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/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

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