

## Special Issue

# Perspectives on the Health Benefits of Flavonoids

### Message from the Guest Editors

Flavonoids are phytochemicals ubiquitously contained in vegetables, fruits and tea. They include subclasses such as flavones, flavonols, isoflavones, and anthocyanins. Flavonoids reduce oxidative stress and inflammation. Various molecular mechanisms related to anti-oxidative and anti-inflammatory properties have been proposed to contribute the health benefit of flavonoids. In recent years unabsorbed flavonoids have been shown to alter the gut microbiome suggesting another mechanism for influencing host health. However, because of their low bioavailability the molecular mechanisms of flavonoids have not always been demonstrated in animal models or in humans. In this Special Issue, we focus on the molecular mechanism of flavonoids on the health benefit which contribute to prevent chronic metabolic and age-related diseases. To elucidate the role of flavonoids on maintaining human health, the molecular actions should be demonstrated, not only in vitro, but also in vivo.

---

### Guest Editors

Dr. Masuko Kobori

National Agriculture and Food Research Organization, Food Research Institute, Tsukuba, Japan

Dr. Wallace Yokoyama

USDA ARS Western Regional Research Center (WRRC), Albany, CA, USA

---

### Deadline for manuscript submissions

closed (31 July 2019)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/18663](https://mdpi.com/si/18663)

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

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

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





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



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

[ijms](https://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 (Inorganic Chemistry)