

## Special Issue

# Metallomics: Recent Advances in Analytical and Biological Sciences of Semimetals/Metalloids

### Message from the Guest Editors

This Special Issue will cover the very basic to the latest applications, together with up-to-date review articles, in the field of Metallomics, particularly featuring analytical techniques and biological, physiological and toxicological significance of semimetals/metalloids. Technical papers, critical reviews and commentaries are all welcome. A variety of noble metals or transition metals are increasingly used in many industries, resulting in their invasion of all aspects of our lives. Semimetals/metalloids are frequently used around us because of their unique physico-chemical properties. However, their biological, physiological, and toxicological impacts are not yet fully understood. The metabolic pathway of selenium is also a puzzle. Tellurium, antimony, tin, germanium, indium and other semimetals/metalloids can also have unique toxic and physiological effects. Further, the recent developments in analytical techniques for monitoring these semimetals/metalloids seems to be also attractive topic. We have reached the conclusion that this themed issue on "Metallomics" is timely to focus on the biological effect of semimetals/metalloids.

### Guest Editors

Prof. Dr. Yasumitsu Ogra

Laboratory of Toxicology and Environmental Health, Graduate School of Pharmaceutical Sciences, Chiba University, Chuo, Chiba 260-8675, Japan

Prof. Takafumi Hirata

Geochemical Research Center, the University of Tokyo, Bunkyo, Tokyo 113-8654, Japan

### Deadline for manuscript submissions

closed (31 December 2017)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/7505](https://mdpi.com/si/7505)

*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*, 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)