

## Special Issue

# Molecular Mechanisms of Nanomaterial-Mediated Immune Modulation

### Message from the Guest Editor

Nanomaterials are becoming increasingly well recognized for instigating unique immunological responses, either through their independent interactions or via the cargo that they deliver. Diverse opportunities regarding how nanomaterials are strategically formulated to promote beneficial effects that can enhance immunotherapies, vaccination, cancer treatments with radiotherapy or chemotherapy, wound repair, and immunosuppression. However, nanomaterials can also instigate detrimental immunomodulatory and inflammatory effects, especially through human exposure to anthropogenic sources. This Special Issue calls for papers that investigate the interaction of nanomaterials with biological systems in terms of their immunomodulatory impact. All article research submissions should involve research conducted at the molecular level, as well as verified experiments.

### Guest Editor

Dr. Ivan Kempson

Future Industries Institute, University of South Australia, Mawson Lakes, SA 5095, Australia

### Deadline for manuscript submissions

20 February 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/232720](https://mdpi.com/si/232720)

*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)