

## Special Issue

# Immune Mediators and Disruptors of Neural Functions

### Message from the Guest Editor

While inflammation is considered a threat to nervous system integrity, increasing evidence indicates that a large range of immune molecules behave as mediators of neural functions. A still underestimated number of cytokines and chemokines modulate neuronal and glial functions in the normal nervous system. Similarly, increasing evidence indicates that naturally occurring autoantibodies directed against neural antigens may be involved in maintenance functions and the prevention of neurodegenerative processes. It is thus of major importance to determine if and how such immune mediators may become immune disruptors of neural functions under pathological conditions. This Special Issue is aimed at providing a global and updated view on such a duality of immune molecules, under physiological or pathological conditions. Research works based on cellular or in vivo experimental approaches are welcome. Bioinformatics and data mining studies are acceptable, however, ad hoc systems biology methods should be applied and explored data should rely on experimental biology approaches. Pure simulation studies will not be considered.

### Guest Editor

Prof. Serge Nataf

Stem-Cell and Brain Research Institute, INSERM 1208, University Lyon-1, Lyon University Hospital (Hospices Civils de Lyon)

### Deadline for manuscript submissions

closed (30 April 2022)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/62245](https://mdpi.com/si/62245)

*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)