

## Special Issue

# Roles of Glia in CNS: Toward the Development of New Antidepressant Strategies?

### Message from the Guest Editor

The amount of data indicating that glial cells do not only act as structural or logistical support within the CNS but actively participate in the processes of neurotransmission and neural plasticity is growing exponentially. Numerous studies have already highlighted the importance of neuro-inflammation in the emergence of depression or depression-like behaviors, and, not surprisingly, the effect of microglial cells was found to be major. Specifically targeting the molecular actors involved in this process has recently been proposed as a potential antidepressant strategy. Taking into account the fundamental importance of astrocytes in the tripartite synapse, it is therefore likely that strategies aimed at reinforcing their molecular impact on plasticity mechanisms may be of relevance in the search for new classes of antidepressants. This Special Issue will welcome both research papers and reviews addressing these points, with a particular interest in those focusing on molecular mechanisms.

### Guest Editor

Dr. Guillaume Lucas

Head, Team P3TN, INCIA CNRS UMR 5287, 146 rue Léo-Saignat, 33076 Bordeaux, France

### Deadline for manuscript submissions

closed (31 December 2023)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/111453](https://mdpi.com/si/111453)

*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)