

Special Issue

Neuroinflammation: From Molecular Mechanisms to Therapy

Message from the Guest Editors

Despite the intricate network of molecular mechanisms underpinning neuroinflammation, we are progressively gaining an increasing and deeper understanding of the multifarious inflammatory signaling pathways with a critical role in disease, resulting in the potential enhancement of targeted treatment options. In this context, this Special Issue will present the recent advances from different research perspectives (in vitro, in vivo, and clinical studies) on (1) molecular and cellular targets affecting neuroinflammation and the major inflammatory signaling pathways related to disease. Potential topics can include (but are not limited to) microglia as key cellular mediators of neuroinflammatory processes; NLRP3 inflammasomes; the kynurenine pathway; endocannabinoids; (2) emerging targeted treatment strategies from clinical medicines to natural products which are under development as potentially effective in the treatment of disease by modulating neuroinflammation at different biological levels.

Guest Editors

Dr. Silvia Alboni

Department of Life Sciences, University of Modena and Reggio Emilia,
41125 Modena, Italy

Dr. Miriam Ciani

Department of Life Sciences, University of Modena and Reggio Emilia,
41125 Modena, Italy

Deadline for manuscript submissions

closed (20 November 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/217422

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)