

Special Issue

Basic Mechanisms of Physiological and Pathological Autoimmunity and Their Role in the Development of Autoimmune Diseases

Message from the Guest Editor

We are pleased to announce the commencement of a Special Issue focusing on the significant topic of autoimmune research. Understanding the intricate relationship between physiological and pathological autoimmunity is paramount in elucidating the complexities inherent in the development of autoimmune diseases. Over the past decades, extensive research has been conducted on physiological/natural and pathological autoimmunity, revealing the crucial role of the natural autoimmunity network in acting as a frontline defense against infections and facilitating the prompt clearance of dead cells and cell debris. Recent studies have shed light on how natural immunity contributes to the efficacy of vaccinations and aids in defending against mutated and tumorous cells. These aspects collectively form vital components of physiological immune regulation. Simultaneously, the genetic backdrop and individual status of the physiological autoimmune network can render an organism susceptible to a targeted immune response triggered by specific environmental factors, resulting in prolonged attacks on its own structures and the eventual onset of autoimmune diseases.

Guest Editor

Prof. Dr. Péter Németh

Department of Immunology and Biotechnology, Clinical Center, Medical School, University of Pécs, Szigeti u, 12, 7643 Pécs, Hungary

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/205065

*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*, 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)