

Special Issue

Molecular Mechanisms in the Etiology and Pathogenesis of Autoimmune Diabetes

Message from the Guest Editor

Autoimmune diabetes, commonly referred to as type 1 diabetes mellitus (T1D), is a persistent immune-mediated condition marked by a lack of insulin due to the destruction of pancreatic beta cells, leading to elevated blood glucose levels. The cause of autoimmune diabetes remains unknown, but is believed to involve a combination of genetic and environmental factors. Genetic factors may play a minor role as only 15% of children with T1D have close relatives with T1D. As T1D is more abundant in developed countries (North America, Western Europe, and Australia) than in developing countries, where infectious diseases are more common, it is suspected that a lack of stimulation of the immune system may increase the risk of autoimmune diseases like T1D, supporting the so-called “hygiene hypothesis”.

This Special Issue aims to present readers with an up-to-date overview of ongoing molecular research addressing questions related to autoimmune diabetes physiopathology, ranging from its etiology and pathogenesis to therapeutic approaches.

Guest Editor

Prof. Dr. Jens Høiriis Nielsen

Department of Biomedical Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

Deadline for manuscript submissions

closed (20 December 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/191562

*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)