

Special Issue

Advances in Immunotherapeutic Approaches to Type 1 Diabetes

Message from the Guest Editor

Type 1 diabetes (T1D) is an organ-specific autoimmune endocrinopathy, where autoreactive T lymphocytes destroy target islet β cells producing insulin. Clinically, T1D presents with interrelated metabolic, vascular, and neuropathic sequelae, and, after the onset of the disease, if it is not promptly treated with insulin, severe clinical manifestations can occur such as ketoacidosis, potential coma, and death. The treatment always allows the patient to escape certain death but does not treat the ongoing autoimmune process. A significant advance beyond the state of art is therefore the effect that any immunotherapeutic intervention may play in halting pathogenic immunological mechanisms, thereby preserving the residual hormone producing cells. This would improve metabolic stability during the disease course in order to avoid the typical 'instability' that requires adjustments to daily insulin administration and continuous glucose monitoring, thereby preventing or reducing long-term complications. This Special Issue focuses on several immunotherapeutic approaches being experimented with in T1D.

Guest Editor

Dr. Alessandra Fierabracci
Bambino Gesù Children's Hospital, IRCCS, 00165 Rome, Italy

Deadline for manuscript submissions

closed (31 January 2020)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/24080

*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)