

Special Issue

Insulin, Glucose Metabolism, and Obesity

Message from the Guest Editor

In obesity and insulin resistance, the key role is played by gene–environment interaction; accordingly, epigenetic changes in chromatin structures and gene function may be responsible for genetic susceptibility. Epigenetic markers are believed to explain the link between gene–lifestyle interactions and the pathogenesis of numerous metabolic disorders and have even been proposed as specific biomarkers of metabolic disorders and possible therapeutic targets. Indeed, abundant data implicate obesity in DNA hypermethylation at both global and site-specific levels. However, the exact mechanism by means of which obesity influences glucose metabolism via DNA methylation remains unclear. This Special Issue is calling for both original articles and reviews providing to the readers of IJMS a comprehensive elucidation about epigenetic interaction between obesity and glucose metabolism, which is necessary for developing novel research approaches as well as therapeutic strategies.

Guest Editor

Dr. Giovanna Muscogiuri

Department of Clinical Medicine and Surgery, University Federico II, Naples, Italy

Deadline for manuscript submissions

closed (30 November 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/134344

*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)