

Special Issue

Molecular Background of Obesity and Its Impact on Therapeutic Strategies

Message from the Guest Editor

Obesity is a severe, chronic and recurrent disease. It leads to grave complications, including diabetes, arterial hypertension, hyperlipidemia and metabolic-associated liver disease (MASLD), among others. The pathogenesises of the complications associated with diabetes have been extensively studied and, as a result, a large group of drugs have been successfully developed. However, the real culprit—obesity—remains elusive as a drug target. It stems from a more complex etiology that involves, among others, the central nervous system and digestive tract. Advancements in the research field have led to some improvements and the introduction of effective drugs acting on GLP-1 receptors and MC4-R, but the need for further drugs persists. Therefore, the focus of this Special Issue is on the mechanisms of obesity and experiments on the potential pathways involved in the pathogenesis of obesity (both in vitro and in vivo). I encourage authors to present both original papers and review articles that provide further insights into the field.

Guest Editor

Dr. Lukasz Buldak

Department of Internal Medicine and Clinical Pharmacology, Faculty of Medical Sciences in Katowice, Medical University of Silesia, Medyków 18, 40-752 Katowice, Poland

Deadline for manuscript submissions

closed (20 April 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/185463

*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)