

## Special Issue

# Molecular Advances on Insulin Resistance and Metabolic Dysfunction

### Message from the Guest Editors

Worldwide, the obesity epidemic has resulted in a surge of metabolic abnormalities and diseases stemming from the condition of insulin resistance that accompanies the obesity status. Insulin resistance represents an impaired biological response to insulin stimulation of target tissues, primarily liver, muscle, and adipose tissue. It is recognized as the root for hypertension, dyslipidemia, non alcoholic fatty liver disease, polycystic ovary syndrome, atherosclerosis, and adverse cardiac remodeling/heart failure. Alterations in glucose and lipid metabolism, insulin secretion and action are among the most important mechanisms that explain the onset of these diseases.

We invite investigators to contribute either original research articles or review articles focusing on the variety of molecular mechanisms that either contribute to the worsening of insulin resistance in obese patients, or that, triggered by insulin resistance, cause the onset and progression of comorbidities associated with obesity.

---

### Guest Editors

Prof. Dr. Melania Manco

Unit of Endocrinology, Bambino Gesù Children's Hospital, IRCCS, 00146 Rome, Italy

Prof. Dr. Amalia Gastaldelli

Institute of Clinical Physiology, National Research Council, 56124 Pisa, Italy

---

### Deadline for manuscript submissions

closed (30 September 2022)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/94531](https://mdpi.com/si/94531)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto: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)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)