

## Special Issue

# Insulin Resistance: Metabolic Mechanisms and Consequences Both In Vivo and Vitro

### Message from the Guest Editor

Insulin resistance (IR) is a critical social problem around the world, and it is usually accompanied by increased plasma insulin levels in humans and/or animals. Many scientists have contributed to the research of IR.

However, numerous points remained unclear, particularly the metabolic mechanisms. Therefore, this Special Issue focused on metabolic mechanisms and consequences, both in vivo and in vitro of IR.

Additionally, details have recently emerged of important molecules and/or signaling events in the related processes. In recent, hepatokines are a popular topic in publications. You are most welcome to share the findings relevant to IR that were obtained in your lab using reliable animal models and/or the established cell models. Moreover, considering the health merits of modern therapies, this Special Issue will cover a wide variety of areas including repurposing of old drugs and useful agents and/or biomolecules for IR therapy from various aspects. Various forms of manuscripts are welcomed, including reviews, mini-reviews, commentaries, and original research articles, among others, and we look forward to receiving contributions from all over the world.

### Guest Editor

Prof. Dr. Juei-Tang Cheng

Institute of Medical Research, Chang Jung Christian University, Tainan City 71101, Taiwan

### Deadline for manuscript submissions

closed (15 January 2023)



## Biomolecules

an Open Access Journal  
by MDPI

Impact Factor 4.8  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/92817](https://mdpi.com/si/92817)

*Biomolecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biomolecules@mdpi.com](mailto:biomolecules@mdpi.com)

[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)





# Biomolecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.8  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)



## About the Journal

### Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

---

### Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

---

### 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, MEDLINE, PMC, Embase, CAPus / SciFinder, and other databases.

#### Journal Rank:

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