



*life*



an Open Access Journal by MDPI

## New Updates in Adipocytes and Adipose Tissue

Guest Editors:

**Dr. Kristóf Endre Károly**

Department of Biochemistry and  
Molecular Biology, Faculty of  
Medicine, University of Debrecen,  
Debrecen, Hungary

**Dr. Éva Csősz**

Department of Biochemistry and  
Molecular Biology, Faculty of  
Medicine, University of Debrecen,  
Debrecen, Hungary

Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

Adipose tissue is a complex organ with profound effects on the homeostasis of the entire body. White adipocytes function as long-term energy storage by accumulating a single large lipid vacuole, which is surrounded by a thin rim of cytoplasm that contains only small amounts of mitochondria, and produce metabolites, signaling lipids, and secretes protein factors (adipokines). Brown and beige adipocytes accumulate numerous small lipid droplets in a multilocular arrangement, contain a large amount of mitochondria-rich cytoplasm, and convert glucose and fatty acids into heat. The production of adipocyte-derived factors changes under different nutritional and pathological conditions that contribute to the pathophysiology of several comorbidities. This Special Issue focuses on metabolic changes and novel molecular pathways observed in obesity with a high emphasis on adipose tissues that can be targeted in the fight against obesity and metabolic syndrome.



[mdpi.com/si/121451](https://mdpi.com/si/121451)

# Special Issue



*life*



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Lluís Ribas de Pouplana**

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

## Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

## 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](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

## Contact Us

---

*Life* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/life](http://mdpi.com/journal/life)  
[life@mdpi.com](mailto:life@mdpi.com)  
[X@Life\\_MDPI](#)