

Special Issue

Obesity and Metabolic Health

Message from the Guest Editors

Low-grade inflammation and associated immune perturbations play an important role in obesity. In the hypothalamus, this complex adaptive mechanism is quickly triggered in response to hypercaloric and high-fat diets. In the last two decades, several studies have been published in this field, contributing to significant advances.

However, there is still a significant gap regarding how distinct cell types adapt themselves in response to this inflammatory and immunological context and how their functions are regulated by peripheral stimuli.

The purpose of this Special Issue is to compile the most recent data on molecular and cellular adaptations observed throughout the hypothalamic dysfunctional development of obesity.

We welcome submissions of original research articles and reviews focusing on, but not limited to, the following topics:

- Immune metabolism;
- CNS-peripheral organ communication;
- Fetal metabolic programming;
- Roles of CNS-associated macrophages (CAMs);
- Protective effects of bioactive compounds and dietary components.

Guest Editors

Dr. Natalia Ferreira Mendes

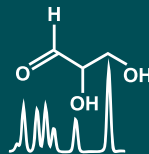
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Deadline for manuscript submissions

closed (30 July 2025)



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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).