



*nutrients*



an Open Access Journal by MDPI

## Advance in Nutrition and Metabolic Homeostasis

Guest Editors:

**Prof. Dr. Maria Pina Mollica**

Department of Biology, University  
of Naples Federico II, 80126  
Naples, Italy

**Dr. Giovanna Trinchese**

Department of Biology, University  
of Naples Federico II, 80126  
Naples, Italy

**Dr. Angela Catapano**

Department of Biology, University  
of Naples Federico II, 80126  
Naples, Italy

Deadline for manuscript  
submissions:

**closed (11 May 2023)**

### Message from the Guest Editors

Dear Colleagues,

To date, energy homeostasis is easily altered by malnutrition, improper lifestyle, and overfeeding. The current obesity epidemic suggests that energy homeostasis is poorly efficient in the modern human dietary environment. Disrupted metabolic flexibility is associated with many pathological conditions, including metabolic syndrome, diabetes, cardiovascular and neurological diseases, and cancer. Metabolic homeostasis is mediated at the level of several key peripheral organs, including the gastrointestinal tract with its microbiome, the most metabolically active organs (liver, skeletal muscle, and adipocytes), and the nervous system, the master homeostatic regulator that detects metabolic input to coordinate tissue-specific responses via peripheral hormone and neuronal signalling. This Special Issue aims to collect original research and review articles describing the impact of the nutrients and their metabolites in the regulation and coordination of the vast number of cellular processes that operate to maintain metabolic homeostasis.

Prof. Dr. Maria Pina Mollica

Dr. Giovanna Trinchese

*Guest Editors*



[mdpi.com/si/139243](https://mdpi.com/si/139243)

# Special Issue



# *nutrients*



an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Lluís Serra-Majem**

1. Centro de Investigación  
Biomédica en Red Fisiopatología  
de la Obesidad y la Nutrición  
(CIBEROBN), Institute of Health  
Carlos III, 28029 Madrid, Spain  
2. Research Institute of  
Biomedical and Health Sciences  
(IUIBS), University of Las Palmas  
de Gran Canaria, 35001 Las  
Palmas, Spain  
3. Preventive Medicine Service,  
Centro Hospitalario Universitario  
Insular Materno Infantil (CHUIMI),  
Canarian Health Service, 35016  
Las Palmas, Spain

### **Prof. Dr. Maria Luz Fernandez**

Department of Nutritional  
Sciences, University of  
Connecticut, Storrs, CT 06269,  
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, PubAg, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (*Nutrition & Dietetics*) / CiteScore - Q1 (*Nutrition and Dietetics*)

## Contact Us

*Nutrients* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/nutrients](http://mdpi.com/journal/nutrients)  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)  
[X@Nutrients\\_MDPI](https://x.com/Nutrients_MDPI)