

## Special Issue

# Application of New Metabolomics Approaches in Studying the Nutrition-Microbiome Reciprocal Interaction

### Message from the Guest Editor

It has been long accepted that the onset of disorders is the result of an interaction between a genetic predisposition and the environment, encompassing dietary regimen and lifestyle. However, the underlying mechanisms are still subjects of intense research. In more recent years, there has been mounting evidence pointing to a major role of the gut microbiota and its reciprocal relationship with macro- and micronutrients, in the modulation of diseases such as obesity, metabolic dysfunction-associated steatohepatitis, and vasculopathies. With the above paradigm in mind, innovative and constantly evolving technologies in the fields of genomics, epigenomics, transcriptomics, proteomics, metabolomics, and microbiomics have the potential of uncovering complex interactions between host, nutrients, and microbiota. The information collected in this Special Issue, when applied, should contribute to the improvement of dietary protocols both as preventive and curative measures.

### Guest Editor

Prof. Dr. Edgard Delvin

Centre de Recherche, CHU Sainte-Justine, Université de Montréal,  
Montréal, QC, Canada

### Deadline for manuscript submissions

15 October 2025



## Nutrients

an Open Access Journal  
by MDPI

Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



[mdpi.com/si/234241](https://mdpi.com/si/234241)

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

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





# Nutrients

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



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



## About the Journal

### Message from the Editorial Board

*Nutrients* is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

---

### 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 (UIBS), 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 and Dietetics) / CiteScore - Q1 (Nutrition and Dietetics)