



*nutrients*



an Open Access Journal by MDPI

## Diet, Nutrition, Microbiota and the Gut-Brain Axis

Guest Editor:

**Dr. Hidenori Akutsu**

Center for Regenerative  
Medicine, National Center for  
Child Health and Development,  
Tokyo, Japan

Deadline for manuscript  
submissions:

**closed (15 September 2023)**

### Message from the Guest Editor

Dear Colleagues,

The immune, nervous, and endocrine systems of the gastrointestinal tract do not function in isolation. Instead, they work in conjunction to maintain body homeostasis via perfectly orchestrated functional crosstalk. In this elegant system, the gut microbiota plays a vital role in the gastrointestinal ecosystem, mediating the bidirectional signaling between the gastrointestinal tract and the brain (the so-called *gut-brain axis*). The communication pathways along this axis include interactions between peptides, lipids, microbial metabolites, and the gut microbiota itself.

Therefore, it is with a great pleasure that we organize this Special Issue covering the fascinating theme of *Diet, Nutrition, Microbiota, and the Gut-Brain Axis*. Our goal is to deepen our knowledge of multi-tissue crosstalk, as this is essential for a better understanding of body homeostasis in health and disease.



[mdpi.com/si/155112](https://mdpi.com/si/155112)

# 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)