



*nutrients*



an Open Access Journal by MDPI

## Effect of Pre- and Perinatal Factors and Infant Nutrition on the Intestinal Microbiota

Guest Editors:

**Dr. Igor Łoniewski**

Department of Biochemical Sciences, Department of Human Nutrition and Metabolomics, Pomeranian Medical University in Szczecin, 71-460 Szczecin, Poland

**Prof. Dr. Beata Łoniewska**

Department of Neonatology and Intensive Care, Pomeranian Medical University in Szczecin, 70-111 Szczecin, Poland

Deadline for manuscript submissions:

**closed (15 April 2023)**

### Message from the Guest Editors

Dear Colleagues,

The intestinal microbiota is an essential determinant of human health. Research on the gut microbiota of infants and young children is still quite limited. Children are already in contact with microorganisms in foetal life, and these interactions increase rapidly after birth and during breastfeeding. The increasing number of caesarean section births, antibiotics and other drugs and formula feeding undoubtedly affect the baby's microbiome. Therefore, it is essential to study factors that may affect the microbiome, the immune system, or the intestinal barrier in early life. It is also important to implement early prevention and modification of the microbiome to prevent its alterations' adverse consequences. In this Special Issue of *Nutrients*, we would like to present reviews and original articles covering the latest developments in studying the effects of pre- and perinatal factors (nutrition, body mass, medication, lifestyle, mode of delivery, etc.) and infant nutrition on the intestinal microbiota. We hope that our Special Issue will contribute to deepening our knowledge in this area and provide the basis for creating new prophylactic and therapeutic standards.



[mdpi.com/si/103928](https://mdpi.com/si/103928)

# 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://twitter.com/Nutrients_MDPI)