



Modulation of Host Physiology and Pathophysiology by the Gut Microbiome

Guest Editor:

Dr. Jonathan Jacobs

1. The Vatche and Tamar
Manoukian Division of Digestive
Diseases, Department of
Medicine, David Geffen School of
Medicine at UCLA, Los Angeles,
CA 90095, USA
2. Division of Gastroenterology,
Hepatology and Parenteral
Nutrition, Veterans Affairs Greater
Los Angeles Healthcare System,
Los Angeles, CA 90073, USA

Deadline for manuscript
submissions:
closed (20 July 2023)

Message from the Guest Editor

Dear Colleagues,

The gut microbiota encompasses bacteria, archaea, fungi, viruses, and protozoans residing in the lumen and mucus layers of the small intestine and colon. There is rapidly growing recognition of the importance of the combined metabolic activity of the gut microbiome, which acts on dietary and host-derived inputs, for host physiologic processes across organ systems. This includes but is not limited to digestion/absorption, gastrointestinal motility, drug metabolism, immune responses, glucose homeostasis, lipid storage, and even behavior. Perturbations of the microbiome have the potential to alter these physiologic relationships in ways that can contribute to pathophysiology in diverse disease states, including gastrointestinal, metabolic, inflammatory, oncologic, and neurobehavioral disorders.

For this Special Issue, we invite the submission of articles that address the role of the gut microbiota in regulating the physiologic properties of their host in health and disease settings. We welcome original research articles and review articles addressing topics within this theme using data derived from either human or animal model studies.

Dr. Jonathan Jacobs





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 and Dietetics) / CiteScore - Q1 (Nutrition and Dietetics)

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.

Contact Us

Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nutrients
nutrients@mdpi.com
[X@Nutrients_MDPI](https://twitter.com/Nutrients_MDPI)