

Special Issue

Nutrition and Gut Immunity

Message from the Guest Editor

The gastrointestinal tract harbours trillions of bacteria in the lumen, separated from the host by the first line of defence, the gut epithelium, considered as part of the innate immunity. In conjunction with the epithelium, a dense population of immune cells in the lamina propria and gut lymphoid structures prevent the uncontrolled translocation of gut bacteria into the host that could otherwise have dramatic consequences for the host, including death.

Changes in the gut immunity can have both local and systemic impacts on the host. A better understanding of what affects gut immunity is thus critical to prevent/treat diseases.

Diet is among the major factors that can modulate gut immunity by modulating epithelial permeability, by promoting the differentiation of anti- or pro-inflammatory cells, or by controlling immune cell activities. Diet can mediate these effects either directly or indirectly through the gut microbiota.

The aim of this Issue is to gather reviews and original research articles investigating the impact of diet on gut immunity, including the role of the gut microbiota and the impact on host health.

Guest Editor

Dr. Laurence Macia

The Charles Perkins Centre, Faculty of Medicine and Health, The University of Sydney, Sydney, NSW 2006, Australia

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Nutrients
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nutrients@mdpi.com

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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

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