

## Special Issue

# Nutrition and Gut Microbiota-Immune System Interplay in Chronic Diseases

### Message from the Guest Editors

Non-communicable diseases, including obesity, type 2 diabetes, cardiovascular diseases, allergy and cancer, are of increasing concern worldwide. These multifactorial illnesses share abnormal nutritional conditions, namely overnutrition, that extensively impair the gut microbiota eco-system and intestinal immunity, leading to systemic chronic low-grade inflammation. Intake of nutrients and their metabolism thereof shape gut microbiota composition and function, as well as immune responses in the gut, the first immune point of contact. An important additional layer in the crosstalk between diet, the gut microbiota and the immune system encompasses food additives. This Special Issue aims to provide a better understanding of how different sources of dietary components or drugs/phytochemicals targeting key nutrient-signaling pathways orchestrate molecular mechanisms affecting intestinal microbiota, gut immunity and distal effects on key target tissues of chronic diseases. We invite manuscripts that explore aspects of this broad topic.

### Guest Editors

Prof. Dr. Sofia Viana

Dr. Flávio Reis

Prof. Dr. Eduardo Ortega Rincón

Prof. Dr. Leonardo Ferreira

### Deadline for manuscript submissions

closed (15 June 2024)



## Nutrients

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Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



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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.

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### Editors-in-Chief

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