



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

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### 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.





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