# **Special Issue**

# Nutrigenetics in Disease Prevention: Mechanistic Pathways and Risk Biomarkers

# Message from the Guest Editor

Nutrition plays a critical role in health and disease. Complex chronic non-communicable diseases (NCDs) are the leading cause of death annually worldwide (estimated ~70% of all deaths). Beyond the personal devastating impact, the direct and indirect NCDassociated burden on healthcare systems and society impedes social, medical, health and economic development. The etiology of NCDs is complex, with both genetic and environmental (nutrition, physical activity) factors contributing to their development and progression. Numerous studies have shown the potential of nutrition as a key player in the prevention, development, treatment and regression of NCDs. However, the underlying molecular mechanisms are mostly yet to be elucidated through nutrigenetics and nutrigenomics research. The goal of this Special Issue is to advance our knowledge in topics related to cellular and molecular pathways regulated by dietary components (in vitro and in vivo studies), molecular risk, onset and progression biomarkers (identified through omics or genetic research methodologies), functional genetics and related issues (not microbiome).

### **Guest Editor**

Prof. Dr. Ruth Birk

Head of the Personal Nutrition and Medicine Lab, Dean, Faculty of Health Sciences, Ariel University, Ariel, Israel

### Deadline for manuscript submissions

closed (6 July 2023)



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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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