# Special Issue

# Diet and Disease Development: Mechanisms, Prevention and Treatment—3rd Edition

## Message from the Guest Editor

Diet influences gut microbiota composition and microbiome balance. Alterations in microbiome balance play a role in physiology and diseases. Research focuses on natural therapies or dietary supplements to modulate microbiota for disease prevention. The mechanisms of direct/transgenerational effects of calorie intake on disease are unclear. It is unclear whether microbiota alterations from poor diets affect disease onset/progression or if supplements/modulators prevent disease. The Special Issue aims to: describe diet's importance in disease development/predisposition; understand diet-induced disease mechanisms; examine novel therapies; and identify research gaps. Reviews will: (i) summarise literature on diet's role in disease; (ii) critically analyze data; (iii) describe disease mechanisms/prevention; (iv) identify dietary treatments; (v) examine microbiota as cause/effect; (vi) assess microbiota modulation as therapy. This Special Issue invites articles/reviews analyzing literature on diet, nutrients, supplements, and microbiota effects on disease.

## **Guest Editor**

Dr. Sonia Saad Renal Medicine, The University of Sydney, Sydney, Australia

#### Deadline for manuscript submissions

closed (15 September 2025)



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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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