

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

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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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