Special Issue

Gene-Diet Interactions and Obesity

Message from the Guest Editor

This Special Issue is dedicated to exploring the intricate relationship between gene–diet interactions and obesity, bringing together cutting-edge research that delves into how genetic variations influence dietary responses and contribute to obesity, a global health challenge.

Obesity is a complex, multifactorial condition influenced by both genetic and environmental factors. Genomewide association studies (GWAS) have identified numerous genetic variants associated with obesity, influencing various biological pathways, including appetite regulation, energy metabolism, and fat storage. Gene–diet interactions occur when the effects of dietary intake on obesity risk are modified by genetic factors.

Personalized nutrition aims to tailor dietary recommendations by integrating the individual's genetic profile, nutritional status, and lifestyle aspects to provide more effective strategies for weight management and obesity prevention.

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Deadline for manuscript submissions

20 April 2026



Nutrients

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed



mdpi.com/si/223434

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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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