

## 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. Genome-wide 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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### Guest Editor

Dr. Marta Gómez de Cedrón

1. Molecular Oncology Group, IMDEA Food Institute, CEI UAM + CSIC, E28049 Madrid, Spain
2. Cell Metabolism Unit, IMDEA Food Institute, CEI UAM + CSIC, E28049 Madrid, Spain

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### Deadline for manuscript submissions

closed (20 April 2026)



## Nutrients

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Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



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*Nutrients*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)

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### 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.

### Editors-in-Chief

Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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