

Special Issue

Fructose Metabolism and Metabolic Health Effects

Message from the Guest Editors

There is a worldwide epidemic of obesity, insulin resistance, and metabolic syndrome. As low-fat foods became more popular and in demand, dietary fat was increasingly replaced by another highly palatable food source—refined sugar. However, increased sugar consumption may actually be contributing to or driving poor metabolic outcomes associated with obesity.

First, is dietary sugar simply a vehicle for increased energy intake or is it intrinsically involved in the pathophysiology of obesity? Next, what are the mechanisms linking sugar intake with poor metabolic outcomes? Can we explain on a molecular level why sugar metabolism would negatively affect cellular energy homeostasis? Do different dietary or artificial sugars carry the same metabolic risks? Lastly, can sugar reduction or pharmacologic inhibition of its metabolism serve as a treatment of metabolic dysfunction?

The purpose of this Special Issue is to collect original research reports and review articles that provide the evidence to answer the above questions. Increased understanding of how sugar metabolism affects metabolic outcomes is urgently needed.

Guest Editors

Dr. Samir Softic

Prof. Dr. Miguel A Lanaspa Garcia

Prof. Dr. Brian J. DeBosch

Deadline for manuscript submissions

closed (25 March 2022)



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/80209

Nutrients
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nutrients@mdpi.com

[mdpi.com/journal/
nutrients](https://mdpi.com/journal/nutrients)





Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



[mdpi.com/journal/
nutrients](https://mdpi.com/journal/nutrients)



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.

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Nutrition and Dietetics) / CiteScore - Q1 (Nutrition and Dietetics)