

Special Issue

New Perspectives on Dietary Iron and Human Health

Message from the Guest Editor

In mammals, appropriate levels of dietary iron as well as its sufficient absorption at the duodenum are critical for maintaining systemic iron balance. With respect to human health, the management of iron-related disorders requires new strategies. Physiologically, iron homeostasis is tightly controlled by the hepcidin–ferroportin axis. Essentially, every form of iron disorder, resulting either due to iron deficiency or overload, is associated with the dysregulation of this axis. Recent discoveries suggest that additional pathways/mechanisms such as hypoxia-inducible factor, ferritinophagy, ferroptosis and gut microbial metabolites can be considered therapeutic targets for not only iron-related disorders, but also for a wide range of diseases involving the gastro-intestinal tract and beyond.

This Special Issue will focus on the aspects of nutritional as well as genetic aspects of iron-related pathophysiologies relevant to human health, related but not limited to, the following: a) novel approaches for treating iron-related disorders; b) the role of gut microbiota and microbial metabolites; c) ferroptosis; and d) cancers.

Guest Editor

Dr. Nupur Das

Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI 48109, USA

Deadline for manuscript submissions

closed (5 November 2024)



Nutrients

an Open Access Journal
by MDPI

Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/201529

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)