



nutrients



an Open Access Journal by MDPI

Nutrigenomics and Exposomics: Precision Nutrition in Metabolic Diseases

Guest Editor:

Dr. Ghada Soliman

City University of New York
(CUNY), Graduate School of
Public Health and Health Policy,
New York, NY, USA

Deadline for manuscript
submissions:

closed (25 March 2024)

Message from the Guest Editor

Dear Colleagues,

The exposome and systems biology have the capacity to address unmet precision nutrition and public health needs. The external exposome includes nutrients, water, chemicals, pollutants, toxins, and other environmental and geospatial exposures. The internal exposome can be measured by untargeted metabolomics, encompassing the small metabolites resulting from all the metabolic processes. The cumulative exposome can interact with the genetic predisposition to alter the metabolome and trigger the cardiometabolic disease onset or progression. In parallel, the biology systems approach facilitates the integration of large databases. Taken together, the exposome and biology system approaches can put into focus the signaling pathways, metabolic processes, and gene–environment interactions that can lead to the development of early diagnostic biomarkers, unravel new mechanism-based treatments, and assess the impact of the current treatments of metabolic diseases.

This Special Issue will address the food and dietary exposome, nutrigenomics, nutrients, phytochemicals, processed food, metabolomics, and the impact on system biology and cardiometabolic disease risk.



mdpi.com/si/136322

Special Issue



nutrients



an Open Access Journal by MDPI

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 & Dietetics*) / CiteScore - Q1 (*Nutrition and Dietetics*)

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.

Contact Us

Nutrients Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nutrients
nutrients@mdpi.com
[X@Nutrients_MDPI](https://twitter.com/Nutrients_MDPI)