# Special Issue

# Nutrigenomics and Exposomics: Precision Nutrition in Metabolic Diseases

## Message from the Guest Editor

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.

#### **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)



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

mdpi.com/journal/ nutrients





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## **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.

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## Prof. Dr. Lluis Serra-Majem

- Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
- Research Institute of Biomedical and Health Sciences (IUIBS),
   University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
   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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