

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.

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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.

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