

Special Issue

Advance in Nutrition and Metabolic Homeostasis

Message from the Guest Editors

To date, energy homeostasis is easily altered by malnutrition, improper lifestyle, and overfeeding. The current obesity epidemic suggests that energy homeostasis is poorly efficient in the modern human dietary environment. Disrupted metabolic flexibility is associated with many pathological conditions, including metabolic syndrome, diabetes, cardiovascular and neurological diseases, and cancer. Metabolic homeostasis is mediated at the level of several key peripheral organs, including the gastrointestinal tract with its microbiome, the most metabolically active organs (liver, skeletal muscle, and adipocytes), and the nervous system, the master homeostatic regulator that detects metabolic input to coordinate tissue-specific responses via peripheral hormone and neuronal signalling. This Special Issue aims to collect original research and review articles describing the impact of the nutrients and their metabolites in the regulation and coordination of the vast number of cellular processes that operate to maintain metabolic homeostasis.

Guest Editors

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Dr. Giovanna Trinchese

Dr. Angela Catapano

Deadline for manuscript submissions

closed (11 May 2023)



Nutrients

an Open Access Journal
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Impact Factor 5.0
CiteScore 9.1
Indexed in PubMed



mdpi.com/si/139243

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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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