



Advance in Nutrition and Metabolic Homeostasis

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Message from the Guest Editors

Dear Colleagues,

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.

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Guest Editors





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