

Special Issue

Exploring the Nutrient Sensing Mechanisms and Metabolic Regulatory Networks of Metabolic Diseases

Message from the Guest Editor

Accurate sensing of a surplus or deficit of energy is critical for metabolic health and elicits compensatory responses that promote homeostasis of both circulating and stored fuel. However, an individual's ability to adapt to changes in the systemic energy level is affected in the presence of metabolic disease. Deficits in central and peripheral detection of nutrient state signals dysregulate long-term fuel storage and availability, but the mechanisms underlying this dysregulation require further exploration. In this Special Issue, we welcome contributions that evaluate central and peripheral mechanisms of nutrient sensing and the downstream networks that mediate responses to dynamic energetic demands, both on cellular and systemic levels. Original research articles and focused reviews investigating the detection of nutrients or nutrient-responsive signals, the impact of these nutrient-sensing mechanisms on human health, and the consequence of their dysfunction in metabolic disease are encouraged.

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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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