

Special Issue

Energy Metabolism and Diet

Message from the Guest Editors

Since all living organisms require energy (ATP) in order to maintain homeostasis, adequate regulation of energy metabolism is crucial for maintaining health. In eukaryotic cells, mitochondria are key players in ATP production, by hosting the ATP generating process of oxidative phosphorylation. Both macro- and micronutrients potentially influence energy metabolism and mitochondrial functioning, either as substrates for (oxidative) catabolism or as essential constituents of enzymes or protein complexes involved in (mitochondrial) energy metabolism. Therefore, good metabolic health strongly depends on adequate supply of these nutrients, which, in turn, may depend on (patho) physiological and environmental conditions. This Special Issue will include manuscripts that focus on the complex relationship between nutrients, (mitochondrial) energy metabolism and health, under various physiological conditions (e.g., ageing, exercise, hypoxia). Within this context, primary research papers as well as reviews in a variety of areas, including nutritional physiology and molecular physiology are welcomed.

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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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