

Special Issue

Fructose Metabolism and Metabolic Health Effects

Message from the Guest Editors

There is a worldwide epidemic of obesity, insulin resistance, and metabolic syndrome. As low-fat foods became more popular and in demand, dietary fat was increasingly replaced by another highly palatable food source—refined sugar. However, increased sugar consumption may actually be contributing to or driving poor metabolic outcomes associated with obesity.

First, is dietary sugar simply a vehicle for increased energy intake or is it intrinsically involved in the pathophysiology of obesity? Next, what are the mechanisms linking sugar intake with poor metabolic outcomes? Can we explain on a molecular level why sugar metabolism would negatively affect cellular energy homeostasis? Do different dietary or artificial sugars carry the same metabolic risks? Lastly, can sugar reduction or pharmacologic inhibition of its metabolism serve as a treatment of metabolic dysfunction?

The purpose of this Special Issue is to collect original research reports and review articles that provide the evidence to answer the above questions. Increased understanding of how sugar metabolism affects metabolic outcomes is urgently needed.

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Deadline for manuscript submissions

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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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