Special Issue

Nutritional Modulation of Dietary Sugars as a Strategy to Improve Insulin Resistance and Energy Balance in Diabetes

Message from the Guest Editor

Lifestyle changes towards less healthy behaviors with the increased consumption of westernized diets. The consumption of added sugars contributes to an increased energy density of the diet, leading to a positive energy balance, higher waist circumference, and weight gain, increasing the risk of obesity and type 2 diabetes.

Sugars may be divided into two distinct groups: those naturally present and those added to foods. Natural or intrinsic sugars are naturally present in foods. The added sugars are a large group of mono- and disaccharides added to foods during processing, preparation, or at the table, with the objective of sweetening and increasing food palatability and shelf life, improving texture, inhibiting growth microorganisms in high concentrations, giving functional structures, or offering more accessibility. The impact of dietary sugars on the pathophysiological mechanisms of type 2 diabetes and its complications is not entirely understood. This Special Issue will explore the association between the excessive consumption of dietary sugars, their sources and types, as well as their different impact in several features of type 2 diabetes etiology and mechanisms of disease

Guest Editor

Prof. Dr. Paulo Matafome

- 1. H&TRC, Coimbra Health School (ESTeSC), Polytechnic University of Coimbra, 3046-854 Coimbra, Portugal
- Coimbra Institute for Clinical and Biomedical Research (iCBR), Center for Innovative Biomedicine and Biotechnology (CIBB) and Faculty of Medicine, University of Coimbra, 3000-548 Coimbra, Portugal

Deadline for manuscript submissions

closed (30 September 2022)



Diabetology

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 3.7



mdpi.com/si/104453

Diabetology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 diabetology@mdpi.com

mdpi.com/journal/diabetology





Diabetology

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 3.7



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Peter Clifton

 Division of Health Sciences, School of Pharmacy and Medical Sciences, University of South Australia, Adelaide, SA, Australia
Alliance for Research in Exercise, Nutrition and Activity (ARENA), Adelaide, SA, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.3 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the first half of 2025).

