

Special Issue

Research on the Pathogenesis and Association of Diabetes and Metabolic Syndrome

Message from the Guest Editor

Diabetes mellitus and metabolic syndrome are closely interrelated clinical entities, both in pathophysiology and epidemiology. Their coexistence significantly increases the risk of cardiovascular disease, microvascular complications, atherosclerotic cardiovascular disease, heart failure, and stroke. Insulin resistance is central to both diabetes mellitus and metabolic syndrome. In metabolic syndrome, insulin resistance precedes and predicts the development of type 2 diabetes mellitus. Chronic low-grade inflammation and adipose tissue dysfunction are key drivers of both conditions, contributing to endothelial dysfunction, atherogenesis, and progressive β -cell failure. New developments in genetics, pathophysiology, medical equipment, bioengineering, and pharmacology open new horizons for the diagnosis and management of patients with diabetes mellitus and metabolic syndrome. This Special Issue focuses on original articles and reviews referring to groundbreaking research regarding the association between diabetes mellitus and metabolic syndrome for metabolic dysfunctions and cardiovascular pathologies.

Guest Editor

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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