

Special Issue

Adipose Tissue as a Central Driver of Obesity-Related Complications

Message from the Guest Editors

This Special Issue aims to provide an integrative perspective on the molecular and pathophysiological mechanisms underlying adipose tissue dysfunction that initiates and sustains obesity-related tissue injury. We invite original research and reviews addressing adipokine-mediated crosstalk; immune cell infiltration and inflammatory remodeling; pathways linking adipocyte dysfunction to insulin resistance and β -cell failure; and cardiovascular remodeling in metabolic dysregulation. Additional topics include ectopic lipid deposition, organ-specific lipotoxicity, and translational links to clinical cardiometabolic phenotypes.

Emphasis will be placed on pharmacological interventions—including GLP-1 receptor agonists and SGLT2 inhibitors—and emerging therapies targeting adipose tissue biology. We warmly invite researchers across disciplines to contribute their work and perspectives, and to join us in advancing the understanding of adipose tissue dysfunction in cardiometabolic disease.

Guest Editors

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