Special Issue

New Insights into Adipose Tissue Metabolic Function and Dysfunction, 3rd Edition

Message from the Guest Editor

Adipose tissue is widely known as an endocrine organ that can modulate systemic metabolism thanks to its effects on energy storage, adipokine production, and adaptive thermogenesis. This endocrine function is carried out in various organs, such as the liver, kidney, pancreas, and brain, and thus contributes to homeostatic regulation, energy balance, insulin sensitivity, and vascular–endothelial function. The dysregulation of adipocyte differentiation, metabolism, and endocrine functions leads to adipose tissue dysfunction, which triggers the activation of molecular pathways involved in the physiopathology of overall metabolic diseases, such as obesity, inflammation, insulin resistance, and type 2 diabetes. New therapeutic approaches targeting adipose tissue and its signaling molecules and heterogeneity could provide potential advances in understanding its pathophysiology and in treating several metabolic syndromes. This Special Issue aims to compile original research papers or comprehensive reviews on new insights into the pathogenesis, molecular pathways, and beneficial effects of novel and safe treatments for metabolic diseases associated with adipose tissue dysfunction.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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