

Special Issue

New Updates in Adipocytes and Adipose Tissue

Message from the Guest Editors

Adipose tissue is a complex organ with profound effects on the homeostasis of the entire body. White adipocytes function as long-term energy storage by accumulating a single large lipid vacuole, which is surrounded by a thin rim of cytoplasm that contains only small amounts of mitochondria, and produce metabolites, signaling lipids, and secrete protein factors (adipokines). Brown and beige adipocytes accumulate numerous small lipid droplets in a multilocular arrangement, contain a large amount of mitochondria-rich cytoplasm, and convert glucose and fatty acids into heat. The production of adipocyte-derived factors changes under different nutritional and pathological conditions that contribute to the pathophysiology of several comorbidities. This Special Issue focuses on metabolic changes and novel molecular pathways observed in obesity with a high emphasis on adipose tissues that can be targeted in the fight against obesity and metabolic syndrome.

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