

Special Issue

Obesity and Insulin Resistance: The Dark Sides of Adipose Organ Dysfunction in the Cardiometabolic Continuum

Message from the Guest Editors

Obesity represents a major contributor of the metabolic syndrome, a cluster of cardiovascular risk factors centered on abdominal adiposity and insulin resistance. Although the expansion of the adipose organ is, by definition, the hallmark of obesity, fat mass accrual per se is not sufficient for the development of a “cardiometabolically unhealthy” phenotype.

This Special Issue of IJMS is calling for both original articles and reviews providing a comprehensive picture and elucidation of the complex relationships between adipose organ dysregulation, insulin resistance, and cardiovascular homeostasis. Suitable topics include but are not limited to impairment of adipose precursor cell differentiation and trans-differentiation, role of fat microdepots and brown adipose tissue, as well as the importance of oxidative stress and different adipose-derived mediators (i.e., fatty acids derivatives, lipokines, adipokines, batokines, etc.) in the impairment of cardiometabolic homeostasis. Finally, the potential effect of current and future therapeutic strategies tailored to curb adipose dysfunction and obesity-associated insulin resistance will be highlighted.

Guest Editors

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