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

Guest Editors:

### Dr. Giuseppe Murdolo

Department of Internal Medicine, Endocrinology and Metabolism, Perugia University Hospital Santa Maria Misericordia, Ospedale di Perugia, 06081 Perugia, Italy

#### Dr. Desirée Bartolini

Department of Pharmaceutical Sciences, University of Perugia, 06123 Perugia, Italy

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## **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.













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### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### Message from the Editor-in-Chief

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