Special Issue

Obesity, Adipose Tissue and Cardiovascular Diseases

Message from the Guest Editor

Obesity has become an increasing major health problem Worldwide. It is associated to several comorbidities, such as impaired glucose metabolism, hypertension, dyslipidemia and atherosclerosis, altogether rising the risk of cardiovascular diseases (CVDs). Mechanisms linking obesity and CVDs are not fully understood, but adipose tissue could play an important role. In obesity, a dysfunctional adipose tissue is characterized by a chronic low-grade inflammation with an increased secretion of pro-inflammatory adipokines and cytokines, which affect the cardiovascular system directly or indirectly. Further important aspects worthy of consideration are the increased fat mass as well as changes in the quality of adipose tissue, which can present reduced capillarization, microvascular dysfunction, endothelial cell activation and fibrosis. Finally, the ectopic fat deposition (e.g., in liver, heart and skeletal muscle) is also important in the increased CVDs risk. Overall, original manuscripts and reviews which contribute to unraveling novel molecular mechanisms or to identifying new players linking obesity, adipose tissue milieu and CVDs are very welcome.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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