



New Insights into Adipose Tissue Metabolic Function and Dysfunction

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Message from the Guest Editors

Adipose tissue is widely known as an endocrine organ able to 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 liver, kidney, pancreas, and brain, and thus contributes to homeostatic regulation, energy balance, insulin sensitivity, and vascular–endothelial function.

Dysregulations of differentiation, metabolism, and the endocrine function of adipocytes lead to adipose tissue dysfunction that triggers the activation of molecular pathways involved in the physiopathology of overall metabolic diseases, such as obesity, inflammation, insulin resistance, and type 2 diabetes.

The purpose of this issue of the *International Journal of Molecular Sciences* entitled “New Insights into Adipose Tissue Metabolic Function and Dysfunction” is to include original research papers and/or relevant updates of literature data on new insights into the pathogenesis, molecular pathways, and beneficial effects of novel and safe treatments of metabolic diseases associated with adipose tissue disfunction.





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Message from the Editor-in-Chief

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