

Special Issue

Leptin

Message from the Guest Editor

Twenty five years ago, an important element in the regulation of weight was discovered: leptin. It was recognized as the adipocyte signal that informs the brain about fat stores, and it had been searched for for a long time. Thus, leptin could explain obesity as a failure of communication between fat and brain, either by leptin or leptin receptor mutation. However, soon after, leptin was found to be the first described adipokine that mediates the inflammatory state of obesity. In fact, leptin receptors and signalling share many features of inflammatory cytokines. Thus, leptin has been found to be the cornerstone of immunometabolism, and there is a link between obesity and many associated pathophysiological conditions, such as diabetes, cardiovascular diseases, autoimmune diseases, pathology of reproduction and pregnancy, and cancer. The aim of this Special Issue is to summarize the knowledge of leptin function and its role in the pathophysiology of obesity-associated diseases at the molecular level.

Guest Editor

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