

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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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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