



The Role of Hepatic Insulin Clearance in Obesity and Type 2 Diabetes

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Message from the Guest Editors

Dear Colleagues,

The global prevalence of obesity and type 2 diabetes is rising at an alarming rate. Over the past decade, studies have demonstrated the significant role of insulin clearance in the obesity and pathogenesis of type 2 diabetes. It is well established that diminished hepatic insulin clearance leads to an elevated secretion of insulin into the systemic circulation, consequently resulting in hyperinsulinemia. Prolonged hyperinsulinemia can further exacerbate beta cell function, ultimately promoting type 2 diabetes. Nevertheless, the precise mechanisms and the role of insulin clearance in the obesity and pathogenesis of type 2 diabetes remain elusive.

This Special Issue aims to present recent data related to and insights into the role of insulin clearance in obesity and the pathogenesis of type 2 diabetes. The scope extends to investigations in animal models as well as human subjects, plus new methods measuring lipidomics, metabolomics, or biomarkers capable of identifying changes caused by reduced or enhanced insulin clearance. Overall, the objective is to offer a comprehensive exploration of this critical element of study.





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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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