

Special Issue

Hormone Secretion and Molecular Alterations in Pancreatic Cell Systems and Metabolic-Related Tissues

Message from the Guest Editors

The pancreatic islet hormones insulin and glucagon have regulatory roles in the control of metabolic homeostasis. Impaired insulin and glucagon secretion are involved in the pathogenesis of type two diabetes. Metabolic dysfunctions, such as glucotoxicity and lipotoxicity, have a pivotal role in diabetes onset. The main aim of this Special Issue is to evaluate the effect of metabolic perturbation in intracellular signaling of hormones associated with metabolic diseases, cell stress pathways, and hormone production and secretion. We will also focus on studies in which novel molecular pathways will be identified through high-throughput epigenetic and “omics” approaches. This Special Issue will be not limited to pancreatic dysfunction, but will also examine other tissue impairments such as liver (NAFLD/NASH), intestine, and adipose tissue. We are also particularly interested in the use of novel cell biology techniques as 3D organoid culturing in the study of diseases characterized by metabolic and secretory alterations.

Guest Editors

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Deadline for manuscript submissions

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