

Special Issue

The Pancreatic Beta Cell

Message from the Guest Editor

Pancreatic beta cells are the main source of insulin, a key hormone for glucose homeostasis which has been the focus of much research since its discovery 100 years ago. Beta cell mass and function adapt to the plastic insulin requirements of the organism, these factors are not static, and their proper regulation is paramount to maintain euglycemia. Despite decades of study, the molecular mechanisms that enable beta cell adaptation are not yet fully understood, but it is clinically obvious when failure of these mechanisms lead to insufficient adaptation, functional decline and beta cell apoptosis/dedifferentiation, and overt Type 2 Diabetes (T2D). As T2D prevalence increases in parallel to obesity, novel pathways that regulate beta cell adaptation are critically needed to establish new therapeutic targets and prevention strategies in order to delay or reverse beta cell dysfunction. For this Special Issue, we invite review and original research articles that address pancreatic beta cells with a focus on cell mass and function in the context of T2D progression.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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