



Distinct Roles of Beta-Cell Mass and Function During Diabetes Onset and Remission

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Message from the Guest Editor

Dear Colleagues,

Both type 1 and type 2 diabetes are characterized by a deficit of beta cell mass. Although type 2 diabetes is characterized by insulin resistance and beta cell dysfunction, recent studies have suggested that diabetes never develops unless beta cell function fails to compensate insulin resistance. Also, while bariatric surgery is now expected to be one of the most potent therapy to achieve remission of type 2 diabetes, a critical role of beta cell function has been suggested. Nonetheless, precise mechanisms of beta cell dysfunction in diabetes remains fully elucidated, and better understanding of distinct as well as simultaneous roles of beta cell mass and function is crucial.

In this special issue, we welcome you to submit any types of article regarding beta cell mass and/or function during diabetes onset and remission. Topics include, but are not limited to

- both basic and clinical studies;
- etiology; islet biology; beta and alpha cell function
- incretin and other hormones
- regenerative medicine
- biomarkers; genetic studies
- bariatric surgery
- microbes; lifestyle and pharmacological interventions





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