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## Islet Function and Dysfunction in Diabetes Mellitus and Transplantation

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Deadline for manuscript submissions:

**closed (30 June 2023)**

### Message from the Guest Editor

Dear Colleagues,

Since the discovery and isolation of insulin in 1921, this has been the mainstay of diabetic treatment, although its exogenous administration cannot mimic normal metabolic control. Islet transplantation is a promising therapeutic option for type 1 diabetics. However, widespread application and long-term success is limited. The reality of the current transplant technique is challenging—more than 50% of islets are destroyed in the initial post-transplant period, multiple stress responses (hypoxia, inflammation, lack of angiogenesis) diminish islet function, and the immunosuppression required is itself diabetogenic.

This Special Issue will focus on derangements in islet cell biology in diabetes and following islet transplantation.

### Keywords

- type 1 diabetes mellitus
- type 2 diabetes mellitus
- islet transplantation
- islet dysfunction
- insulin



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**Special** Issue



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