# **Special Issue**

# Islet Function and Dysfunction in Diabetes Mellitus and Transplantation

## Message from the Guest Editor

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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## Deadline for manuscript submissions

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. Cells encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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