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Stem Cell Therapies for Treating Diabetes

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Message from the Collection Editors

As of 2019, more than 463 million people in the world live with diabetes. This is a serious threat to global health and is certainly a big issue in terms of economic impact. In the past decades, there has been active research into using stem cell therapy to treat diabetes, such as type 1 or type 2 diabetes. Since the discovery and identification of various types of stem cells in the human body, there have been immense efforts to generate human pancreatic islets or insulin-producing beta cells from these varied stem cells, for the purpose of restoring euglycemia. More recently, methodologies to make human islet or beta-like cells have matured significantly. It appears that the human stem cell field is very close to using stem cell-derived islets or beta cells to treat or even cure diabetes. In view of these significant advances and 2021 being the 100th anniversary for the discovery of insulin, we decided to commission this timely Special Issue, in the hope that stem cell-based therapy will pave the way for the next century in moving the field closer toward an eventual cure for diabetes.

Dr. Adrian Kee Keong Teo
Dr. Jun Shirakawa
Guest Editors

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Message from the Editorial Board

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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