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Regenerative Medicine in Diabetes

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Message from the Guest Editor

Diabetes mellitus (DM) is caused by an insufficient function of insulin. Thus, if the definition of regenerative medicine is to cure diseases or injuries by reconstructing lost forms and/or functions, regenerative medicine for diabetes is to cure DM by reconstructing the function of insulin. As Dr. Banting stated almost a century ago in a Nobel lecture, exogenous insulin administration is not a cure for diabetes but a treatment. In that sense, transplantation of the pancreas organ or isolated islets can cure DM by reconstructing insulin action. However, current transplantation therapy for DM needs immunosuppression and human donors. Regenerative medicine can achieve similar effects without these necessities. Regenerative medicine may also prevent autoimmunity and/or islet disfunction developing DM. In this Special Issue on "Regenerative Medicine in Diabetes", I would like to sum up our achievements and open a new vista for the future in this field. Original investigations and review articles are both welcome.

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Message from the Editor-in-Chief

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