

Abbreviations

2-NBDG (2-(N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)Amino)-2-Deoxyglucose)

ADSC Adipose derived Stem Cells

BMSC Bone Marrow Stem Cells

Caco2 Cancer coli-2 (human colorectal adenocarcinoma cell line)

CGRP Calcitonin gene-related peptide

CM Conditioned media

CREB Calcium Responsive Element Binding Protein

DCFDA 2',7'-dichlorofluoresceindiacetate

DPP-4 Dipeptidyl peptidase-4

DTZ Dithiozone

ECL Enhanced chemiluminescence

EL Enicostemma littorale

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ERK1/2 Extracellular signal-regulated kinase 1/2

ESC Embryonic stem cells

FFAs Free fatty acids

FOXA2 Forkhead box A2

FPG Fasting plasma glucose

G6P Glucose-6-phosphate

GAD Glutamic acid decarboxylase

GLP Glucagon like peptide

GLUT Glucose transporter

GSIS Glucose-stimulated insulin secretion

GSK3 Glycogen synthesis kinase 3

HEK293 Human embryonic kidney 293 cell line

HLA Human leukocyte antigen

HNF-3B Hepatocyte nuclear factor 3 Beta

IAPP Islet Associated Polypeptide

ICA Islet cell antibodies

ICMR-INDIAB Indian Council of Medical Research-INDia DIABetes

IFN β Interferon β

IL2 Interleukin 2

ILCC Islet like cell clusters

iPSC Induced pluripotent stem cells

IR Insulin Receptor

IR Insulin Resistance

IRS Insulin Receptor Substrate

KGF Keratinocyte growth factor

LADA Latent autoimmune diabetes of adults

MafA v-maf musculoaponeurotic fibrosarcoma oncogene homolog A

MHC Major histocompatibility complex

MIN6 Mouse INSulinoma 6

MODY Maturity-onset diabetes of the young

MSC Mesenchymal Stem Cells

MyoG Myogenin

NeuroD Neuronal Differentiation 1

Ngn3 Neurogenin-3

NGT Normal glucose tolerance

NIDDM Non-insulin-dependent diabetes

NKX6.1	NK6 Homeobox 1	PPx	Partial pancreatectomised
NPH	Neutral protamine Hagedorn	PREPs	Pancreatic resident endocrine progenitors
OGTT	Oral glucose tolerance test	RBG	Random blood glucose
Pax4	Paired box gene 4	ROS	Reactive oxygen species
PDK	Phosphoinositide-dependent kinase	RTG	Renal threshold for glucose
Pdx1	Pancreatic duodenal homeobox 1	SGLT1	Sodium glucose co-transporter 1
PI3K	Phosphatidylinositol 3-kinase	SGLT2	Sodium glucose co-transporter 2
PKB	Protein kinase B	SH2	Src-homology-2 domain proteins
PKC	Protein kinase C	STZ	Streptozotocin
PKC	Protein kinase C	T1DM	Type 1 diabetes mellitus
PP cells	Pancreatic polypeptide cells	T2DM	Type 2 diabetes mellitus
pp38MAPK	Mitogen-activated protein kinase	TNF α	Tumor necrosis factor
PPARs	Peroxisome Proliferator Activated Receptor agonists	UGE	Urinary glucose excretion
		α SMA	Alpha-smooth muscle actin