

CITATION REPORT

List of articles citing

The molecular mechanisms of pancreatic β -cell glucotoxicity: recent findings and future research directions

DOI: 10.1016/j.mce.2012.08.003

Molecular and Cellular Endocrinology, 2012, 364, 1-27.

Source: <https://exaly.com/paper-pdf/53145053/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
216	The molecular mechanisms of pancreatic β cell glucotoxicity: recent findings and future research directions. <i>Molecular and Cellular Endocrinology</i> , 2012 , 364, 1-27	4.4	193
215	Redox homeostasis in pancreatic β cells. 2012 , 2012, 932838		27
214	GPRC5B a putative glutamate-receptor candidate is negative modulator of insulin secretion. 2013 , 441, 643-648		25
213	Failure of the adaptive unfolded protein response in islets of obese mice is linked with abnormalities in β cell gene expression and progression to diabetes. 2013 , 62, 1557-68		84
212	Losartan, an angiotensin II type 1 receptor blocker, protects human islets from glucotoxicity through the phospholipase C pathway. 2013 , 27, 5122-30		25
211	Influence of chronic hyperglycemia on the loss of the unfolded protein response in transplanted islets. 2013 , 51, 225-32		12
210	Antidiabetic and antioxidant properties of alkaloids from <i>Catharanthus roseus</i> (L.) G. Don. 2013 , 18, 9770-84		114
209	Mouse pancreas tissue slice culture facilitates long-term studies of exocrine and endocrine cell physiology in situ. 2013 , 8, e78706		26
208	Hyperoxia reverses glucotoxicity-induced inhibition of insulin secretion in rat INS-1 β cells. 2014 , 78, 843-50		10
207	Pathogenesis of chronic hyperglycemia: from reductive stress to oxidative stress. 2014 , 2014, 137919		189
206	Spirolactone and dimethylsulfoxide effect on glucose metabolism and oxidative stress markers in polycystic ovarian syndrome rat model. 2014 , 122, 154-62		12
205	Activated protein C and its potential applications in prevention of islet β cell damage and diabetes. 2014 , 95, 323-63		9
204	Deuterohematin-AlaHisLys mitigates the symptoms of rats with non-insulin dependent diabetes mellitus by scavenging reactive oxygen species and activating the PI3-K/AKT signal transduction pathway. 2014 , 220, 64-74		7
203	Incretin-based therapy and pancreatic beta cells. 2014 , 40, 411-22		8
202	Structured hypocaloric diet is more effective than behavioral therapy in reducing metabolic syndrome in Mexican postmenopausal women: a randomized controlled trial. 2014 , 21, 711-20		9
201	Effect of dietary n - 3 polyunsaturated fatty acids on oxidant/antioxidant status in macrosomic offspring of diabetic rats. 2014 , 2014, 368107		17
200	The protective effects and genetic pathways of thorn grape seeds oil against high glucose-induced apoptosis in pancreatic β cells. 2014 , 14, 10		14

199	Anti-diabetic properties of a non-conventional radical scavenger, as compared to pioglitazone and exendin-4, in streptozotocin-nicotinamide diabetic mice. 2014 , 729, 37-44	6
198	Microbial phenolic metabolites improve glucose-stimulated insulin secretion and protect pancreatic beta cells against tert-butyl hydroperoxide-induced toxicity via ERKs and PKC pathways. 2014 , 66, 245-53	55
197	Calcium signaling in pancreatic β cells in health and in Type 2 diabetes. 2014 , 56, 340-61	125
196	The impact of the endoplasmic reticulum protein-folding environment on cancer development. 2014 , 14, 581-97	674
195	Evaluation of antidiabetic properties of cactus pear seed oil in rats. 2014 , 52, 1286-90	31
194	Caffeic acid, naringenin and quercetin enhance glucose-stimulated insulin secretion and glucose sensitivity in INS-1E cells. 2014 , 16, 602-12	72
193	Type 2 diabetes and congenital hyperinsulinism cause DNA double-strand breaks and p53 activity in β cells. 2014 , 19, 109-21	101
192	PAR-4: a possible new target for age-related disease. 2014 , 18, 917-27	8
191	Involvement of oxidative stress-induced DNA damage, endoplasmic reticulum stress, and autophagy deficits in the decline of β cell mass in Japanese type 2 diabetic patients. 2014 , 37, 1966-74	70
190	Anti-lipolytic, α -amylase inhibitory and antioxidant activities of <i>Pseuderanthemum palatiferum</i> (Nees) Radlk. leaf ethanolic extract. 2014 , 8, 967-974	4
189	Silibinin protects β cells from glucotoxicity through regulation of the Insig-1/SREBP-1c pathway. 2014 , 34, 1073-80	9
188	An analysis for the new high-tech photoelectric equipment under the free-replacement & pro-rate warranty strategy. 2015 , 969-972	1
187	Beta-cell regeneration from vimentin+/MafB+ cells after STZ-induced extreme beta-cell ablation. 2015 , 5, 11703	16
186	Type 2 diabetes mellitus. 2015 , 1, 15019	651
185	The Soybean Peptide Vglycin Preserves the Diabetic β cells through Improvement of Proliferation and Inhibition of Apoptosis. 2015 , 5, 15599	13
184	Progressive glucose stimulation of islet beta cells reveals a transition from segregated to integrated modular functional connectivity patterns. 2015 , 5, 7845	45
183	Effect of <i>Schisandrae chinensis</i> lignin on blood glucose of diabetic rats. 2015 , 973-976	
182	Can Tea Extracts Exert a Protective Effect Against Diabetes by Reducing Oxidative Stress and Decreasing Glucotoxicity in Pancreatic β Cells?. 2015 , 39, 27-30	4

181	Streptozotocin-induced type 1 diabetes in rodents as a model for studying mitochondrial mechanisms of diabetic β cell glucotoxicity. 2015 , 8, 181-8	90
180	Liraglutide improves pancreatic Beta cell mass and function in alloxan-induced diabetic mice. 2015 , 10, e0126003	43
179	Pancreas-Specific Sirt1-Deficiency in Mice Compromises Beta-Cell Function without Development of Hyperglycemia. 2015 , 10, e0128012	19
178	DJ-1 Protects Pancreatic Beta Cells from Cytokine- and Streptozotocin-Mediated Cell Death. 2015 , 10, e0138535	15
177	Roles of Pyruvate, NADH, and Mitochondrial Complex I in Redox Balance and Imbalance in β Cell Function and Dysfunction. 2015 , 2015, 512618	39
176	Chronic Exposure to Excess Nutrients Left-shifts the Concentration Dependence of Glucose-stimulated Insulin Secretion in Pancreatic β Cells. 2015 , 290, 16191-201	36
175	Glucokinase activation is beneficial or toxic to cultured rat pancreatic islets depending on the prevailing glucose concentration. 2015 , 309, E632-9	15
174	Phospho-BAD BH3 mimicry protects β cells and restores functional β cell mass in diabetes. 2015 , 10, 497-504	23
173	Inhibitor of differentiation proteins protect against oxidative stress by regulating the antioxidant-mitochondrial response in mouse beta cells. 2015 , 58, 758-70	28
172	Protective effect of Schisandrae chinensis oil on pancreatic β cells in diabetic rats. 2015 , 48, 818-25	9
171	Cocoa-rich diet attenuates beta cell mass loss and function in young Zucker diabetic fatty rats by preventing oxidative stress and beta cell apoptosis. 2015 , 59, 820-4	45
170	Diabetogenic milieus induce specific changes in mitochondrial transcriptome and differentiation of human pancreatic islets. 2015 , 24, 5270-84	23
169	Lanthanide Nanoparticles: From Design toward Bioimaging and Therapy. 2015 , 115, 10725-815	746
168	The balance between adaptive and apoptotic unfolded protein responses regulates β cell death under ER stress conditions through XBP1, CHOP and JNK. <i>Molecular and Cellular Endocrinology</i> , 2015 , 413, 189-201	4-4 75
167	Zerumbone protects INS-1 rat pancreatic beta cells from high glucose-induced apoptosis through generation of reactive oxygen species. 2015 , 460, 205-9	19
166	β Cell mass and function in human type 2 diabetes. 2015 , 354-370	3
165	Human umbilical cord matrix-derived stem cells exert trophic effects on β cell survival in diabetic rats and isolated islets. 2015 , 8, 1625-33	25
164	Bone marrow-derived mesenchymal stem cells ameliorate chronic high glucose-induced β cell injury through modulation of autophagy. 2015 , 6, e1885	45

163	In Vivo Differentiation of Therapeutic Insulin-Producing Cells from Bone Marrow Cells via Extracellular Vesicle-Mimetic Nanovesicles. 2015 , 9, 11718-27	58
162	Rab2A is a pivotal switch protein that promotes either secretion or ER-associated degradation of (pro)insulin in insulin-secreting cells. 2014 , 4, 6952	18
161	Pancreatic PYY Is Critical in the Control of Insulin Secretion and Glucose Homeostasis in Female Mice. 2015 , 156, 3122-36	32
160	Protection of pancreatic β cell function by dietary polyphenols. 2015 , 14, 933-959	13
159	Insulin resistance in type 1 diabetes mellitus. 2015 , 64, 1629-39	64
158	Surgical treatment of type 2 diabetes in subjects with mild obesity: mechanisms underlying metabolic improvements. 2015 , 25, 36-44	14
157	Resveratrol and diabetes: from animal to human studies. 2015 , 1852, 1145-54	227
156	New obesity classification criteria as a tool for bariatric surgery indication. 2016 , 22, 681-703	132
155	Metabolic Inflammation-Differential Modulation by Dietary Constituents. 2016 , 8,	68
154	Chronic mTOR Inhibition by Rapamycin and Diabetes. 2016 , 365-378	
153	Par-4/NF- κ B Mediates the Apoptosis of Islet β Cells Induced by Glucolipotoxicity. 2016 , 2016, 4692478	17
152	Hyperglycemic Stress and Carbon Stress in Diabetic Glucotoxicity. 2016 , 7, 90-110	77
151	Protection of Human Pancreatic Islets from Lipotoxicity by Modulation of the Translocon. 2016 , 11, e0148686	10
150	Phenylpropenoic Acid Glucoside from Rooibos Protects Pancreatic Beta Cells against Cell Death Induced by Acute Injury. 2016 , 11, e0157604	20
149	The Relationship of Diabetes and Smoking Status to Hepatocellular Carcinoma Mortality. 2016 , 95, e2699	12
148	Hypoxia reduces ER-to-Golgi protein trafficking and increases cell death by inhibiting the adaptive unfolded protein response in mouse beta cells. 2016 , 59, 1492-1502	45
147	Phosphatase and tensin homologue (PTEN)-induced putative kinase 1 reduces pancreatic β cells apoptosis in glucotoxicity through activation of autophagy. 2016 , 476, 299-305	3
146	Once and for all, LXR α and LXR β are gatekeepers of the endocrine system. 2016 , 49, 31-46	36

145	A Reevaluation of the Role of the Unfolded Protein Response in Islet Dysfunction: Maladaptation or a Failure to Adapt?. 2016 , 65, 1472-80	46
144	Inhibitory actions of <i>Pseuderanthemum palatiferum</i> (Nees) Radlk. leaf ethanolic extract and its phytochemicals against carbohydrate-digesting enzymes. 2016 , 6, 93-99	4
143	The impact of insulin resistance on the kidney and vasculature. 2016 , 12, 721-737	151
142	Metabolomic Response of Skeletal Muscle to Aerobic Exercise Training in Insulin Resistant Type 1 Diabetic Rats. 2016 , 6, 26379	17
141	Protective effects of fish oil and pioglitazone on pancreatic tissue in obese KK mice with type 2 diabetes. 2016 , 115, 53-59	9
140	Cocoa polyphenols in oxidative stress: Potential health implications. 2016 , 27, 570-588	40
139	Disrupted dynamics of F-actin and insulin granule fusion in INS-1 832/13 beta-cells exposed to glucotoxicity: partial restoration by glucagon-like peptide 1. 2016 , 1862, 1401-11	8
138	Beta-cell mitochondrial carriers and the diabetogenic stress response. 2016 , 1863, 2540-9	25
137	Coffee silverskin extract improves glucose-stimulated insulin secretion and protects against streptozotocin-induced damage in pancreatic INS-1E beta cells. 2016 , 89, 1015-1022	24
136	Hydrophilic CeO ₂ nanocubes protect pancreatic βcell line INS-1 from H ₂ O ₂ -induced oxidative stress. 2016 , 8, 7923-32	28
135	Thymoquinone, a bioactive component of <i>Nigella sativa</i> , normalizes insulin secretion from pancreatic βcells under glucose overload via regulation of malonyl-CoA. 2016 , 310, E394-404	23
134	Oxidative and endoplasmic reticulum stress in βcell dysfunction in diabetes. 2016 , 56, R33-54	151
133	Disulfide Mismatching During Proinsulin Folding in the Endoplasmic Reticulum. 2016 , 65, 1050-60	34
132	Interleukin-6 as a potential positive modulator of human beta-cell function: an exploratory analysis-the Verona Newly Diagnosed Type 2 Diabetes Study (VNDS) 6. 2016 , 53, 393-402	3
131	The Role of Oxidative Stress and Hypoxia in Pancreatic Beta-Cell Dysfunction in Diabetes Mellitus. 2017 , 26, 501-518	273
130	Impact of insulin sensitivity, beta-cell function and glycaemic control on initiation of second-line glucose-lowering treatment in newly diagnosed type 2 diabetes. 2017 , 19, 866-873	2
129	Antidiabetic and anti-hypercholesterolemic effects of flavonoid-rich fractions of <i>Rosmarinus officinalis</i> in streptozotocin-induced diabetes in mice. 2017 , 1	1
128	Plasma vascular endothelial growth factor B levels are increased in patients with newly diagnosed type 2 diabetes mellitus and associated with the first phase of glucose-stimulated insulin secretion function of βcell. 2017 , 40, 1219-1226	7

127	Chemistry and biology of reactive species with special reference to the antioxidative defence status in pancreatic β cells. 2017 , 1861, 1929-1942	70
126	Vitamin D deficiency and diabetes. 2017 , 474, 1321-1332	119
125	Metabolic effects of insulin in a human model of ketoacidosis combining exposure to lipopolysaccharide and insulin deficiency: a randomised, controlled, crossover study in individuals with type 1 diabetes. 2017 , 60, 1197-1206	4
124	Metabolic fate of glucose and candidate signaling and excess-fuel detoxification pathways in pancreatic β cells. 2017 , 292, 7407-7422	32
123	An excessive increase in glutamate contributes to glucose-toxicity in β cells via activation of pancreatic NMDA receptors in rodent diabetes. 2017 , 7, 44120	40
122	Hydrogen sulfide enhances pancreatic β cell differentiation from human tooth under normal and glucotoxic conditions. 2017 , 12, 125-141	7
121	Gene expression signature: a powerful approach for drug discovery in diabetes. 2017 , 232, R131-R139	6
120	Type 2 diabetes mellitus BALB/c mice are more susceptible to granulomatous amoebic encephalitis: Immunohistochemical study. 2017 , 183, 150-159	5
119	Biphasic response as a mechanism against mutant takeover in tissue homeostasis circuits. 2017 , 13, 933	12
118	Adropin deficiency worsens HFD-induced metabolic defects. 2017 , 8, e3008	24
117	Upregulation of UCP2 in beta-cells confers partial protection against both oxidative stress and glucotoxicity. 2017 , 13, 541-549	24
116	-Equol Activates cAMP Signaling at the Plasma Membrane of INS-1 Pancreatic β Cells and Protects against Streptozotocin-Induced Hyperglycemia by Increasing β Cell Function in Male Mice. 2017 , 147, 1631-1639	16
115	Phenolic Substances from Ocimum Species Enhance Glucose-Stimulated Insulin Secretion and Modulate the Expression of Key Insulin Regulatory Genes in Mice Pancreatic Islets. 2017 , 80, 3267-3275	16
114	The Role of the Antioxidant Protein DJ-1 in Type 2 Diabetes Mellitus. 2017 , 1037, 173-186	11
113	Mild hyperglycemia triggered islet function recovery in streptozotocin-induced insulin-deficient diabetic rats. 2017 , 8, 44-55	3
112	NADPH oxidase-2 does not contribute to β cell glucotoxicity in cultured pancreatic islets from C57BL/6J mice. <i>Molecular and Cellular Endocrinology</i> , 2017 , 439, 354-362	4-4 17
111	Cinnamic Acid and Its Derivatives: Mechanisms for Prevention and Management of Diabetes and Its Complications. 2017 , 9,	122
110	Effects of Oliv. Leaf Extract on Glycolipid Metabolism and Antioxidant Capacity in Diabetic Model Mice. 2017 , 2017, 7648505	7

109	Interleukin-22 reverses human islet dysfunction and apoptosis triggered by hyperglycemia and LIGHT. 2018 , 60, 171-183	4
108	Hypoxia potentiates LPS-induced inflammatory response and increases cell death by promoting NLRP3 inflammasome activation in pancreatic β cells. 2018 , 495, 2512-2518	17
107	Glutamine up-regulates pancreatic sodium-dependent neutral aminoacid transporter-2 and mitigates islets apoptosis in diabetic rats. 2018 , 70, 233-242	8
106	Functional Foods and Nutraceuticals as Dietary Intervention in Chronic Diseases; Novel Perspectives for Health Promotion and Disease Prevention. 2018 , 15, 977-1009	76
105	Down-regulation of CASK in glucotoxicity-induced insulin dysfunction in pancreatic β cells. 2018 , 50, 281-287	4
104	Potential of rooibos, its major C-glucosyl flavonoids, and Z-2-(E)-glucopyranosyloxy)-3-phenylpropenoic acid in prevention of metabolic syndrome. 2018 , 58, 227-246	47
103	Maternal β Cell Adaptations in Pregnancy and Placental Signalling: Implications for Gestational Diabetes. 2018 , 19,	44
102	Pancreatic Beta Cell Death: Novel Potential Mechanisms in Diabetes Therapy. 2018 , 2018, 9601801	78
101	Remission of Human Type 2 Diabetes Requires Decrease in Liver and Pancreas Fat Content but Is Dependent upon Capacity for β Cell Recovery. 2018 , 28, 547-556.e3	132
100	Endoplasmic Reticulum Stress in Metabolic Disorders. 2018 , 7,	89
99	Attenuation of high glucose induced apoptotic and inflammatory signaling pathways in RIN-m5F pancreatic β cell lines by Hibiscus rosa sinensis L. petals and its phytoconstituents. 2018 , 227, 8-17	8
98	Changes of MODY signal pathway genes in the endoplasmic reticulum stress in INS-1-3 cells. 2018 , 13, e0198614	
97	The Beta Cell in Type 2 Diabetes. 2019 , 19, 81	31
96	Endoplasmic reticulum stress contributes to NMDA-induced pancreatic β cell dysfunction in a CHOP-dependent manner. 2019 , 232, 116612	7
95	Metallothionein 1 negatively regulates glucose-stimulated insulin secretion and is differentially expressed in conditions of beta cell compensation and failure in mice and humans. 2019 , 62, 2273-2286	5
94	1-Palmitoyl-2-Linoleoyl-3-Acetyl--Glycerol Attenuates Streptozotocin-Induced Pancreatic Beta Cell Damage by Promoting Glucose Transporter 2 Endocytosis. 2019 , 39,	2
93	Phlda3 regulates beta cell survival during stress. 2019 , 9, 12827	8
92	Early Treatment with Empagliflozin and GABA Improves β -Cell Mass and Glucose Tolerance in Streptozotocin-Treated Mice. 2019 , 2019, 2813489	11

91	Differential Effect of Glucose on ER-Mitochondria Ca Exchange Participates in Insulin Secretion and Glucotoxicity-Mediated Dysfunction of β Cells. 2019 , 68, 1778-1794	34
90	Combating insulin resistance with the paleo diet. 2019 , 44, 49-55	1
89	Immune aging in diabetes and its implications in wound healing. 2019 , 200, 43-54	28
88	Combination therapy of an iNKT cell ligand and CD40-CD154 blockade establishes islet allograft acceptance in nonmyeloablative bone marrow transplant recipients. 2019 , 56, 541-550	1
87	Herbal medicine in the treatment of patients with type 2 diabetes mellitus. 2019 , 132, 78-85	21
86	Can 14-3-3 proteins serve as therapeutic targets for the treatment of metabolic diseases?. 2019 , 139, 199-206	16
85	Contribution of Oxidative Stress and Impaired Biogenesis of Pancreatic β Cells to Type 2 Diabetes. 2019 , 31, 722-751	30
84	Higher levels of thioredoxin interacting protein (TXNIP) in patients with prediabetes compared to obese normoglycemic subjects. 2019 , 13, 734-737	7
83	Connecting pancreatic islet lipid metabolism with insulin secretion and the development of type 2 diabetes. 2020 , 1461, 53-72	27
82	Nutrient Metabolism, Subcellular Redox State, and Oxidative Stress in Pancreatic Islets and β Cells. 2020 , 432, 1461-1493	29
81	The role of mitochondria-associated membranes in cellular homeostasis and diseases. 2020 , 350, 119-196	32
80	Metabolic response of Insulinoma 1E cells to glucose stimulation studied by fluorescence lifetime imaging. 2020 , 2, 409-418	1
79	Persistent or Transient Human β Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. 2020 , 33, 108466	22
78	Mediterranean Diet Effects on Type 2 Diabetes Prevention, Disease Progression, and Related Mechanisms. A Review. 2020 , 12,	38
77	High glucose-induced PRDX3 acetylation contributes to glucotoxicity in pancreatic β cells: Prevention by Teneeligliptin. 2020 , 160, 618-629	9
76	Light: A Magical Tool for Controlled Drug Delivery. 2020 , 30, 2005029	57
75	Glucose-dependent partitioning of arginine to the urea cycle protects β cells from inflammation. 2020 , 2, 432-446	8
74	Proof-of-concept for 2D/CT element analysis of entire cryofrozen islets of Langerhans using a cryoloop synchrotron X-ray fluorescence setup. 2020 , 35, 1368-1379	3

73	AMPK Profiling in Rodent and Human Pancreatic Beta-Cells under Nutrient-Rich Metabolic Stress. 2020 , 21,	8
72	The effect of resveratrol on advanced glycation end products in diabetes mellitus: a systematic review. 2020 , 1-8	7
71	Differential sensitivity of human islets from obese versus lean donors to chronic high glucose or palmitate. 2020 , 12, 532-541	
70	Nutrient-Induced Metabolic Stress, Adaptation, Detoxification, and Toxicity in the Pancreatic β Cell. 2020 , 69, 279-290	37
69	Inhibition of thioredoxin 2 by intracellular methylglyoxal accumulation leads to mitochondrial dysfunction and apoptosis in INS-1 cells. 2020 , 68, 103-115	8
68	Aspalathin Protects Insulin-Producing β Cells against Glucotoxicity and Oxidative Stress-Induced Cell Death. 2020 , 64, e1901009	13
67	Molecular mechanisms of lipotoxicity-induced pancreatic β cell dysfunction. 2021 , 359, 357-402	6
66	Role of mitochondria-associated endoplasmic reticulum membrane (MAMs) interactions and calcium exchange in the development of type 2 diabetes. 2021 , 363, 169-202	6
65	Human Islet Microtissues as an In Vitro and an In Vivo Model System for Diabetes. 2021 , 22,	5
64	Emerging Roles of Metallothioneins in Beta Cell Pathophysiology: Beyond and Above Metal Homeostasis and Antioxidant Response. 2021 , 10,	3
63	The ARFRP1-dependent Golgi scaffolding protein GOPC is required for insulin secretion from pancreatic β cells. 2021 , 45, 101151	1
62	Effects of Obesity and Diabetes on Sperm Cell Proteomics in Rats. 2021 , 20, 2628-2642	4
61	Hyperglycemia-Induced Dysregulated Fusion Intermediates in Insulin-Secreting Cells Visualized by Super-Resolution Microscopy. 2021 , 9, 650167	0
60	Pregnancy-induced changes in β cell function: what are the key players?. 2021 ,	6
59	Chemical Chaperone PBA Attenuates ER Stress and Upregulates SOCS3 Expression as a Regulator of Leptin Signaling. 2021 , 86, 480-488	1
58	PBA \uparrow SOCS3, \downarrow 2021 , 86, 564-574	
57	Chronically Elevated Exogenous Glucose Elicits Antipodal Effects on the Proteome Signature of Differentiating Human iPSC-Derived Pancreatic Progenitors. 2021 , 22,	0
56	Transcriptome analysis of islets from diabetes-resistant and diabetes-prone obese mice reveals novel gene regulatory networks involved in beta-cell compensation and failure. 2021 , 35, e21608	1

55	Mechanisms of Beta-Cell Apoptosis in Type 2 Diabetes-Prone Situations and Potential Protection by GLP-1-Based Therapies. 2021 , 22,	4
54	Reversion of early- and late-stage β cell dedifferentiation by human umbilical cord-derived mesenchymal stem cells in type 2 diabetic mice. 2021 , 23, 510-520	2
53	Oxidative Stress: Pathogenetic Role in Diabetes Mellitus and Its Complications and Therapeutic Approaches to Correction. 2021 , 171, 179-189	14
52	NADPH Oxidase (NOX) Targeting in Diabetes: A Special Emphasis on Pancreatic β Cell Dysfunction. 2021 , 10,	5
51	Glucokinase activation or inactivation: Which will lead to the treatment of type 2 diabetes?. 2021 , 23, 2199-2206	3
50	Favorable Effects of GLP-1 Receptor Agonist against Pancreatic β Cell Glucose Toxicity and the Development of Arteriosclerosis: "The Earlier, the Better" in Therapy with Incretin-Based Medicine. 2021 , 22,	1
49	A Review of Current Trends with Type 2 Diabetes Epidemiology, Aetiology, Pathogenesis, Treatments and Future Perspectives. 2021 , 14, 3567-3602	18
48	Synchrotron fluorescence imaging of individual mouse beta-cells reveals changes in zinc, calcium, and iron in a model of low-grade inflammation. 2021 , 13,	0
47	Involvement of P2Y signaling in the restoration of glucose-induced insulin exocytosis in pancreatic β cells exposed to glucotoxicity. 2021 ,	1
46	Improved Glycemic Control and Variability: Application of Healthy Ingredients in Asian Staples. 2021 , 13,	
45	Changes in mitochondrial carriers exhibit stress-specific signatures in INS-1 β cells exposed to glucose versus fatty acids. 2013 , 8, e82364	18
44	Beneficial effect of insulin treatment on islet transplantation outcomes in Akita mice. 2014 , 9, e95451	12
43	Transcription factor Ets1 regulates expression of thioredoxin-interacting protein and inhibits insulin secretion in pancreatic β cells. 2014 , 9, e99049	14
42	Thresholds of oxidative stress in newly diagnosed diabetic patients on intensive glucose-control therapy. 2014 , 9, e100897	7
41	Increased ectodomain shedding of cell adhesion molecule 1 from pancreatic islets in type 2 diabetic pancreata: correlation with hemoglobin A1c levels. 2014 , 9, e100988	10
40	Dopamine modulates insulin release and is involved in the survival of rat pancreatic beta cells. 2015 , 10, e0123197	25
39	Which Factor Determines the Duration Required for Relief of Glucotoxicity by the Intensive Insulin Therapy?. 2018 , 10, 606-608	2
38	Dysfunction and Therapeutic Potential of Endothelial Progenitor Cells in Diabetes Mellitus. 2018 , 10, 752-757	19

37	Mechanisms of β cell dedifferentiation in diabetes: recent findings and future research directions. 2018 , 236, R109-R143	105
36	Hexosamine pathway but not interstitial changes mediates glucotoxicity in pancreatic β cells as assessed by cytosolic Ca^{2+} response to glucose. 2014 , 6, 207-14	7
35	Antidiabetic and anti-hypercholesterolemic effects of flavonoid-rich fractions of <i>Rosmarinus officinalis</i> in streptozotocin-induced diabetes in mice. 2018 , 16, 204-210	2
34	Inflammatory Pathways Linked to Beta Cell Demise in Diabetes. 2014 , 1-50	
33	Inflammatory Pathways Linked to β Cell Demise in Diabetes. 2015 , 989-1045	
32	Insulin pump in type 2 diabetes: B-cell focused treatment. 2017 , 63, 441-445	
31	Efecto de la lipohipertrofia en el control metabólico de pacientes con diabetes mellitus tipo 2. 2017 , 65, 697-701	
30	Acute glucose load induced islet β cells dysfunction in TLR4 dependent manner in male mice. 2020 , 524, 205-210	
29	[Effects of glycosylated hemoglobin and disease course on islet β cell function in patients with type 2 diabetes]. 2019 , 39, 1003-1008	
28	Protective Effect of <i>Siegesbeckia orientalis</i> on Pancreatic β Cells under High Glucose-Induced Glucotoxicity. 2021 , 11, 10963	0
27	Glucose metabolism and pyruvate carboxylase enhance glutathione synthesis and restrict oxidative stress in pancreatic islets. 2021 , 37, 110037	1
26	Islet-on-a-chip for the study of pancreatic β cell function. 1	2
25	Precision Diagnostics for Type 2 Diabetes Mellitus [Have We Arrived?]. 2022 , 1,	
24	Evaluation Effects of Quercetin on Streptozotocin-treated RINm5F Pancreatic β cells in vitro. 2021 , 15, 310-318	
23	Protection of pancreatic beta cells against high glucose-induced toxicity by astaxanthin-s-allyl cysteine diester: alteration of oxidative stress and apoptotic-related protein expression.. 2022 , 1-9	
22	Effects of Sodium-Glucose Co-Transporter-2 Inhibitors on Pancreatic β Cell Mass and Function.. 2022 , 23,	
21	In vitro comparison of various antioxidants and flavonoids from Rooibos as beta cell protectants against lipotoxicity and oxidative stress-induced cell death.. 2022 , 17, e0268551	1
20	Resveratrol attenuates behavioural impairment associated with learning and memory in HFD-STZ induced diabetic rats.	0

19	Heterogeneous Development of β Cell Populations In Diabetes-Resistant and -Susceptible Mice.		
18	The Role of Beta Cell Recovery in Type 2 Diabetes Remission. 2022 , 23, 7435		2
17	Obesogenic diet in mice compromises maternal metabolic physiology and lactation ability leading to reductions in neonatal viability. <i>Acta Physiologica</i> ,	5.6	1
16	β cell dynamics in type 2 diabetes and in dietary and exercise interventions.		1
15	Association between snoring and insulin levels in the US population: a cross-sectional study.		0
14	Sec61 complex/translocon: The role of an atypical ER Ca ²⁺ -leak channel in health and disease. 13,		0
13	Regulatory Mechanisms of SNAP-25-Associated Insulin Release Revealed by Live-Cell Confocal and Single-Molecule Localization Imaging.		0
12	Pathophysiology of Type 2 Diabetes: A General Overview of Glucose and Insulin Homeostasis. 2022 , 1-26		0
11	Glycemic control releases regenerative potential of pancreatic beta cells blocked by severe hyperglycemia. 2022 , 41, 111719		0
10	Prolonged culture of human pancreatic islets under glucotoxic conditions changes their acute beta cell calcium and insulin secretion glucose response curves from sigmoid to bell-shaped.		1
9	Mitochondrial dysfunction and mitophagy in type 2 diabetes: pathophysiology and therapeutic targets.		0
8	Extracellular vesicles regulate the transmission of insulin resistance and redefine noncommunicable diseases. 9,		0
7	Deep Sea Water Inhibited Pancreatic β Cell Apoptosis and Regulated Glucose Homeostasis by Affecting Lipid Metabolism in Db/Db Mice. Volume 16, 245-258		1
6	Effects of silibinin on apoptosis and insulin secretion in rat RINm5F pancreatic β cells. 2023 , 98, 201-209		0
5	Incretin and Pancreatic β Cell Function in Patients with Type 2 Diabetes. 2023 , 38, 1-9		0
4	The Association between the Differential Expression of lncRNA and Type 2 Diabetes Mellitus in People with Hypertriglyceridemia. 2023 , 24, 4279		0
3	Cell Replacement Therapy for Type 1 Diabetes Patients: Potential Mechanisms Leading to Stem-Cell-Derived Pancreatic β Cell Loss upon Transplant. 2023 , 12, 698		0
2	Pathophysiology of Prediabetes, Diabetes, and Diabetic Remission in Cats. 2023 , 53, 511-529		0

1 Pharmacological inhibitors of β cell dysfunction and death as therapeutics for diabetes. 14,

o