Susan Bonner-Weir , Susan Bonner Weir

List of Publications by Year in Descending Order

244 papers	28,848 citations	82 h-index	167 g-index
261 ext. papers	30,925 ext. citations	8.5 avg, IF	6.9 L-index

#	Paper	IF	Citations
244	New evidence for adult beta cell neogenesis. *Cell Stem Cell*, **2021**, 28, 1889-1890	18	0
243	Unique Human and Mouse β-Cell Senescence-Associated Secretory Phenotype (SASP) Reveal Conserved Signaling Pathways and Heterogeneous Factors. *Diabetes*, **2021**, 70, 1098-1116	0.9	5
242	Reduced glucose-induced first-phase insulin release is a danger signal that predicts diabetes. *Journal of Clinical Investigation*, **2021**, 131,	15.9	2
241	The β-cell glucose toxicity hypothesis: Attractive but difficult to prove. *Metabolism: Clinical and Experimental*, **2021**, 124, 154870	12.7	0
240	β-cell secretory dysfunction: a key cause of type 2 diabetes - Authors' reply. *Lancet Diabetes and Endocrinology,the*, **2020**, 8, 370-371	18.1	2
239	Inadequate β-cell mass is essential for the pathogenesis of type 2 diabetes. *Lancet Diabetes and Endocrinology,the*, **2020**, 8, 249-256	18.1	55
238	Beta cell identity changes with mild hyperglycemia: Implications for function, growth, and vulnerability. *Molecular Metabolism*, **2020**, 35, 100959	8.8	31
237	The islets of Langerhans continue to reveal their secrets. *Nature Reviews Endocrinology*, **2020**, 16, 73-74	15.2	1
236	Acceleration of β Cell Aging Determines Diabetes and Senolysis Improves Disease Outcomes. *Cell Metabolism*, **2019**, 30, 129-142.e4	24.6	139
235	Residual β cell function and monogenic variants in long-duration type 1 diabetes patients. *Journal of Clinical Investigation*, **2019**, 129, 3252-3263	15.9	36
234	SUN-LB059 A Rare Case Of Hypoglycemia Secondary To Proinsulin-Intermediate Secreting Tumor. *Journal of the Endocrine Society*, **2019**, 3,	0.4	78
233	Generation of Pancreatic Ductal Organoids and Whole-Mount Immunostaining of Intact Organoids. *Current Protocols in Cell Biology*, **2019**, 83, e82	2.3	5
232	T Induces Both Markers of Maturation and Aging in Pancreatic β-Cells. *Diabetes*, **2018**, 67, 1322-1331	0.9	8
231	Expansion of Adult Human Pancreatic Tissue Yields Organoids Harboring Progenitor Cells with Endocrine Differentiation Potential. *Stem Cell Reports*, **2018**, 10, 712-724	8	80
230	Pancreatic β Cell Regeneration as a Possible Therapy for Diabetes. *Cell Metabolism*, **2018**, 27, 57-67	24.6	112
229	Heterogeneity of SOX9 and HNF1β in Pancreatic Ducts Is Dynamic. *Stem Cell Reports*, **2018**, 10, 725-738	8	18
228	GABA Signaling Stimulates β Cell Regeneration in Diabetic Mice. *Cell*, **2017**, 168, 7-9	56.2	16

227	Evidence of stress in β cells obtained with laser capture microdissection from pancreases of brain dead donors. *Islets*, **2017**, 9, 19-29	2	13
226	β Cell Aging Markers Have Heterogeneous Distribution and Are Induced by Insulin Resistance. *Cell Metabolism*, **2017**, 25, 898-910.e5	24.6	106
225	Glucose Driven Changes in Beta Cell Identity Are Important for Function and Possibly Autoimmune Vulnerability during the Progression of Type 1 Diabetes. *Frontiers in Genetics*, **2017**, 8, 2	4.5	7
224	V-Maf Musculoaponeurotic Fibrosarcoma Oncogene Homolog A Synthetic Modified mRNA Drives Reprogramming of Human Pancreatic Duct-Derived Cells Into Insulin-Secreting Cells. *Stem Cells Translational Medicine*, **2016**, 5, 1525-1537	6.9	10
223	Pancreatic Regeneration After Partial Pancreatectomy in Rodents. *Pancreatic Islet Biology*, **2016**, 111-123	0.4	1
222	Dynamic development of the pancreas from birth to adulthood. *Upsala Journal of Medical Sciences*, **2016**, 121, 155-8	2.8	35
221	Hyperglycaemia attenuates in vivo reprogramming of pancreatic exocrine cells to beta cells in mice. *Diabetologia*, **2016**, 59, 522-32	10.3	23
220	Trimeprazine increases IRS2 in human islets and promotes pancreatic β cell growth and function in mice. *JCI Insight*, **2016**, 1,	9.9	5
219	Physiology: Pancreatic β cell heterogeneity revisited. *Nature*, **2016**, 535, 365-6	50.4	15
218	Direct Reprogramming for Pancreatic Beta-Cells Using Key Developmental Genes. *Current Pathobiology Reports*, **2015**, 3, 57-65	2	10
217	Human Islet Morphology Revisited: Human and Rodent Islets Are Not So Different After All. *Journal of Histochemistry and Cytochemistry*, **2015**, 63, 604-12	3.4	63
216	MAFA and T3 Drive Maturation of Both Fetal Human Islets and Insulin-Producing Cells Differentiated From hESC. *Journal of Clinical Endocrinology and Metabolism*, **2015**, 100, 3651-9	5.6	27
215	Reduced Ki67 Staining in the Postmortem State Calls Into Question Past Conclusions About the Lack of Turnover of Adult Human β Cells. *Diabetes*, **2015**, 64, 1698-702	0.9	39
214	Compensatory Response by Late Embryonic Tubular Epithelium to the Reduction in Pancreatic Progenitors. *PLoS ONE*, **2015**, 10, e0142286	3.7	1
213	Reprogramming Mouse Cells With a Pancreatic Duct Phenotype to Insulin-Producing β-Like Cells. *Endocrinology*, **2015**, 156, 2029-38	4.8	24
212	Differentiation of pancreatic endocrine progenitors reversibly blocked by premature induction of MafA. *Developmental Biology*, **2014**, 385, 2-12	3.1	14
211	ANGPTL8/betatrophin does not control pancreatic beta cell expansion. *Cell*, **2014**, 159, 691-6	56.2	168
210	Adult Progenitor Cells as a Potential Treatment for Diabetes **2014**, 491-500		

209	β-Cell differentiation of human pancreatic duct-derived cells after in vitro expansion. *Cellular Reprogramming*, **2014**, 16, 456-66	2.1	23
208	Reanalysis of study of pancreatic effects of incretin therapy: methodological deficiencies. *Diabetes, Obesity and Metabolism*, **2014**, 16, 661-6	6.7	42
207	Occurrence of spontaneous pancreatic lesions in normal and diabetic rats: a potential confounding factor in the nonclinical assessment of GLP-1-based therapies. *Diabetes*, **2014**, 63, 1303-14	0.9	30
206	Birth and death of human β-cells in pancreases from cadaver donors, autopsies, surgical specimens, and islets transplanted into mice. *Cell Transplantation*, **2014**, 23, 139-51	4	23
205	Making β cells from adult cells within the pancreas. *Current Diabetes Reports*, **2013**, 13, 695-703	5.6	41
204	Conversion of mature human β-cells into glucagon-producing α-cells. *Diabetes*, **2013**, 62, 2471-80	0.9	97
203	Pancreatic duct ligation after almost complete β-cell loss: exocrine regeneration but no evidence of β-cell regeneration. *Endocrinology*, **2013**, 154, 4493-502	4.8	32
202	Thyroid hormone promotes postnatal rat pancreatic β-cell development and glucose-responsive insulin secretion through MAFA. *Diabetes*, **2013**, 62, 1569-80	0.9	90
201	Islet β cell mass in diabetes and how it relates to function, birth, and death. *Annals of the New York Academy of Sciences*, **2013**, 1281, 92-105	6.5	211
200	Adult Progenitor Cells as a Potential Treatment for Diabetes **2013**, 827-834		
199	β-cell dedifferentiation in diabetes is important, but what is it?. *Islets*, **2013**, 5, 233-7	2	81
198	PDX1 in ducts is not required for postnatal formation of β-cells but is necessary for their subsequent maturation. *Diabetes*, **2013**, 62, 3459-68	0.9	18
197	TNF-like weak inducer of apoptosis (TWEAK) promotes beta cell neogenesis from pancreatic ductal epithelium in adult mice. *PLoS ONE*, **2013**, 8, e72132	3.7	16
196	Sustained NF-κB activation and inhibition in β-cells have minimal effects on function and islet transplant outcomes. *PLoS ONE*, **2013**, 8, e77452	3.7	8
195	Regulation of Insulin Secretion and Islet Cell Function **2012**, 1-17		
194	New clues to bariatric surgery’s benefits. *Nature Medicine*, **2012**, 18, 860-1	50.5	5
193	Subpopulations of GFP-marked mouse pancreatic β-cells differ in size, granularity, and insulin secretion. *Endocrinology*, **2012**, 153, 5180-7	4.8	39
192	Concise review: pancreas regeneration: recent advances and perspectives. *Stem Cells Translational Medicine*, **2012**, 1, 150-9	6.9	58

191	Islet neogenesis: a possible pathway for beta-cell replenishment. *Review of Diabetic Studies*, **2012**, 9, 407-16	3.6	38
190	Quantitative assessment of islets of Langerhans encapsulated in alginate. *Tissue Engineering - Part C: Methods*, **2011**, 17, 435-49	2.9	47
189	Mafa expression enhances glucose-responsive insulin secretion in neonatal rat beta cells. *Diabetologia*, **2011**, 54, 583-93	10.3	113
188	Rat neonatal beta cells lack the specialised metabolic phenotype of mature beta cells. *Diabetologia*, **2011**, 54, 594-604	10.3	91
187	Stem cell approaches for diabetes: towards beta cell replacement. *Genome Medicine*, **2011**, 3, 61	14.4	39
186	Tissue-specific disallowance of housekeeping genes: the other face of cell differentiation. *Genome Research*, **2011**, 21, 95-105	9.7	143
185	Sleeping islets and the relationship between βcell mass and function. *Diabetes*, **2011**, 60, 2018-9	0.9	15
184	Finally! A human pancreatic βcell line. *Journal of Clinical Investigation*, **2011**, 121, 3395-7	15.9	18
183	Mice with a targeted deletion of the type 2 deiodinase are insulin resistant and susceptible to diet induced obesity. *PLoS ONE*, **2011**, 6, e20832	3.7	65
182	Quantitative analysis of cell composition and purity of human pancreatic islet preparations. *Laboratory Investigation*, **2010**, 90, 1661-75	5.9	111
181	Enumeration of islets by nuclei counting and light microscopic analysis. *Laboratory Investigation*, **2010**, 90, 1676-86	5.9	15
180	Gene expression profiles of Beta-cell enriched tissue obtained by laser capture microdissection from subjects with type 2 diabetes. *PLoS ONE*, **2010**, 5, e11499	3.7	207
179	Identification of markers for newly formed beta-cells in the perinatal period: a time of recognized beta-cell immaturity. *Journal of Histochemistry and Cytochemistry*, **2010**, 58, 369-76	3.4	38
178	Response to Comment on: Keenan et al. (2010) Residual Insulin Production and Pancreatic β-Cell Turnover After 50 Years of Diabetes: Joslin Medalist Study. Diabetes 2010;59:2846-2853. *Diabetes*, **2010**, 59, e27-e27	0.9	1
177	Dreams for type 1 diabetes: shutting off autoimmunity and stimulating beta-cell regeneration. *Endocrinology*, **2010**, 151, 2971-3	4.8	9
176	Beta-cell growth and regeneration: replication is only part of the story. *Diabetes*, **2010**, 59, 2340-8	0.9	196
175	Ductal origin hypothesis of pancreatic regeneration under attack. *Cell Metabolism*, **2010**, 11, 2-3	24.6	59
174	Activation of pancreatic-duct-derived progenitor cells during pancreas regeneration in adult rats. *Journal of Cell Science*, **2010**, 123, 2792-802	5.3	127

173	Residual insulin production and pancreatic βcell turnover after 50 years of diabetes: Joslin Medalist Study. *Diabetes*, **2010**, 59, 2846-53	0.9	352
172	Accurate control of oxygen level in cells during culture on silicone rubber membranes with application to stem cell differentiation. *Biotechnology Progress*, **2010**, 26, 805-18	2.8	16
171	Lack of evidence for recipient precursor cells replenishing βcells in transplanted islets. *Cell Transplantation*, **2010**, 19, 1563-72	4	6
170	Stem cell therapy for type 1 diabetes mellitus. *Nature Reviews Endocrinology*, **2010**, 6, 139-48	15.2	126
169	Regenerating pancreatic beta-cells: plasticity of adult pancreatic cells and the feasibility of in-vivo neogenesis. *Current Opinion in Organ Transplantation*, **2010**, 15, 79-85	2.5	41
168	OVO homologue-like 1 (Ovol1) transcription factor: a novel target of neurogenin-3 in rodent pancreas. *Diabetologia*, **2010**, 53, 115-22	10.3	2
167	Single pancreatic beta cells co-express multiple islet hormone genes in mice. *Diabetologia*, **2010**, 53, 128-38	10.3	55
166	Dimorphic histopathology of long-standing childhood-onset diabetes. *Diabetologia*, **2010**, 53, 690-8	10.3	117
165	Rat islet cell aggregates are superior to islets for transplantation in microcapsules. *Diabetologia*, **2010**, 53, 937-945	10.3	77
164	Protective unfolded protein response in human pancreatic beta cells transplanted into mice. *PLoS ONE*, **2010**, 5, e11211	3.7	29
163	What Does It Take to Make a Beta Cell? **2010**, 137-152		
162	Generation of Beta Cells from Pancreatic Duct Cells and/or Stem Cells **2010**, 167-182		
161	Mutations at the BLK locus linked to maturity onset diabetes of the young and beta-cell dysfunction. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14460-5	11.5	123
160	p38 MAPK is a major regulator of MafA protein stability under oxidative stress. *Molecular Endocrinology*, **2009**, 23, 1281-90		29
159	Porcine marginal mass islet autografts resist metabolic failure over time and are enhanced by early treatment with liraglutide. *Endocrinology*, **2009**, 150, 2145-52	4.8	34
158	Adult mouse intrahepatic biliary epithelial cells induced in vitro to become insulin-producing cells. *Journal of Endocrinology*, **2009**, 201, 37-47	4.7	55
157	Differentiation of COPAS-sorted non-endocrine pancreatic cells into insulin-positive cells in the mouse. *Diabetologia*, **2009**, 52, 645-52	10.3	19
156	Developmental pathways during in vitro progression of human islet neogenesis. *Differentiation*, **2009**, 77, 135-47	3.5	17

155	Expression of MafA in pancreatic progenitors is detrimental for pancreatic development. *Developmental Biology*, **2009**, 333, 108-20	3.1	35
154	Laser capture microdissection of human pancreatic beta-cells and RNA preparation for gene expression profiling. *Methods in Molecular Biology*, **2009**, 560, 87-98	1.4	20
153	Insulin-producing Cells Derived from Stem Cells **2009**, 513-521		1
152	Preferential reduction of beta cells derived from Pax6-MafB pathway in MafB deficient mice. *Developmental Biology*, **2008**, 314, 443-56	3.1	46
151	Preservation of beta-cell function by targeting beta-cell mass. *Trends in Pharmacological Sciences*, **2008**, 29, 218-27	13.2	56
150	Islets in type 2 diabetes: in honor of Dr. Robert C. Turner. *Diabetes*, **2008**, 57, 2899-904	0.9	50
149	Curative and beta cell regenerative effects of alpha1-antitrypsin treatment in autoimmune diabetic NOD mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 16242-7	11.5	133
148	Loss of Ncb5or results in impaired fatty acid desaturation, lipoatrophy, and diabetes. *Journal of Biological Chemistry*, **2008**, 283, 29285-91	5.4	30
147	Gene expression of purified beta-cell tissue obtained from human pancreas with laser capture microdissection. *Journal of Clinical Endocrinology and Metabolism*, **2008**, 93, 1046-53	5.6	68
146	Transdifferentiation of pancreatic ductal cells to endocrine beta-cells. *Biochemical Society Transactions*, **2008**, 36, 353-6	5.1	124
145	Carbonic anhydrase II-positive pancreatic cells are progenitors for both endocrine and exocrine pancreas after birth. *Proceedings of the National Academy of Sciences of the United States of America* , **2008**, 105, 19915-9	11.5	365
144	Bone marrow or foetal liver cells fail to induce islet regeneration in diabetic Akita mice. *Diabetes/Metabolism Research and Reviews*, **2008**, 24, 585-90	7.5	8
143	Normal relationship of beta- and non-beta-cells not needed for successful islet transplantation. *Diabetes*, **2007**, 56, 2312-8	0.9	47
142	Characterization of Islet Preparations **2007**, 85-133		16
141	NeuroD and reaggregation induce beta-cell specific gene expression in cultured hepatocytes. *Diabetes/Metabolism Research and Reviews*, **2007**, 23, 239-49	7.5	21
140	Reply to PIn vivo imaging of islet transplantationP. *Nature Medicine*, **2007**, 13, 773-773	50.5	2
139	Changes in gene expression in beta cells after islet isolation and transplantation using laser-capture microdissection. *Diabetologia*, **2007**, 50, 334-42	10.3	49
138	Influence of diabetes on the loss of beta cell differentiation after islet transplantation in rats. *Diabetologia*, **2007**, 50, 2117-25	10.3	43

137	Modification of adverse inflammation is required to cure new-onset type 1 diabetic hosts. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 13074-9	11.5	55
136	Differentiation of affinity-purified human pancreatic duct cells to beta-cells. *Diabetes*, **2007**, 56, 1802-9	0.9	125
135	Downregulation of GLP-1 and GIP receptor expression by hyperglycemia: possible contribution to impaired incretin effects in diabetes. *Diabetes*, **2007**, 56, 1551-8	0.9	278
134	A dominant role for glucose in beta cell compensation of insulin resistance. *Journal of Clinical Investigation*, **2007**, 117, 81-3	15.9	49
133	Protein-tyrosine phosphatase 1B deficiency reduces insulin resistance and the diabetic phenotype in mice with polygenic insulin resistance. *Journal of Biological Chemistry*, **2007**, 282, 23829-40	5.4	50
132	Reply to comment on: Patti ME, McMahon G, Mun EC et al. (2005) Severe hypoglycaemia post-gastric bypass requiring partial pancreatectomy: evidence for inappropriate insulin secretion and pancreatic islet hyperplasia. Diabetologia 48:2236[?]240. *Diabetologia*, **2006**, 49, 609-610	10.3	0
131	Endogenous beta-galactosidase expression in murine pancreatic islets. *Diabetologia*, **2006**, 49, 1120-2	10.3	10
130	How can we get more beta cells?. *Current Diabetes Reports*, **2006**, 6, 96-101	5.6	9
129	Timing and expression pattern of carbonic anhydrase II in pancreas. *Developmental Dynamics*, **2006**, 235, 1571-7	2.9	32
128	Evidence for a role of the ubiquitin-proteasome pathway in pancreatic islets. *Diabetes*, **2006**, 55, 1223-31	0.9	41
127	In vivo imaging of immune rejection in transplanted pancreatic islets. *Diabetes*, **2006**, 55, 2419-28	0.9	147
126	In vivo multimodal imaging of transplanted pancreatic islets. *Nature Protocols*, **2006**, 1, 429-35	18.8	50
125	Are there pancreatic progenitor cells from which new islets form after birth?. *Nature Clinical Practice Endocrinology and Metabolism*, **2006**, 2, 240-1		46
124	GLP-1/exendin-4 facilitates beta-cell neogenesis in rat and human pancreatic ducts. *Diabetes Research and Clinical Practice*, **2006**, 73, 107-10	7.4	89
123	A switch from MafB to MafA expression accompanies differentiation to pancreatic beta-cells. *Developmental Biology*, **2006**, 293, 526-39	3.1	235
122	Induction of pancreatic stem/progenitor cells into insulin-producing cells by adenoviral-mediated gene transfer technology. *Cell Transplantation*, **2006**, 15, 929-38	4	76
121	In vivo imaging of islet transplantation. *Nature Medicine*, **2006**, 12, 144-8	50.5	228
120	p16INK4a induces an age-dependent decline in islet regenerative potential. *Nature*, **2006**, 443, 453-7	50.4	826

119	Generation of Islets from Pancreatic Progenitor Cells **2006**, 309-319		
118	Induced ICER Igamma down-regulates cyclin A expression and cell proliferation in insulin-producing beta cells. *Biochemical and Biophysical Research Communications*, **2005**, 329, 925-9	3.4	23
117	Mechanism of PDX-1 protein transduction. *Biochemical and Biophysical Research Communications*, **2005**, 332, 68-74	3.4	55
116	Establishment of a diabetic mouse model with progressive diabetic nephropathy. *American Journal of Pathology*, **2005**, 167, 327-36	5.8	38
115	New sources of pancreatic beta-cells. *Nature Biotechnology*, **2005**, 23, 857-61	44.5	346
114	Islet transplantation outcomes in mice are better with fresh islets and exendin-4 treatment. *Diabetologia*, **2005**, 48, 2074-9	10.3	72
113	Severe hypoglycaemia post-gastric bypass requiring partial pancreatectomy: evidence for inappropriate insulin secretion and pancreatic islet hyperplasia. *Diabetologia*, **2005**, 48, 2236-40	10.3	294
112	BETA2/NeuroD protein can be transduced into cells due to an arginine- and lysine-rich sequence. *Diabetes*, **2005**, 54, 2859-66	0.9	101
111	Imaging beta-cell death with a near-infrared probe. *Diabetes*, **2005**, 54, 1780-8	0.9	31
110	Insulin-Producing Cells Derived from Embryonic Stem Cells: A Potential Treatment for Diabetes **2004**, 723-729		2
109	Adult Progenitor Cells as a Potential Treatment for Diabetes **2004**, 731-737		
108	Assessment of human islet preparations to be used for islet expansion, survival, or transplant. *Diabetes Technology and Therapeutics*, **2004**, 6, 493-4	8.1	2
107	Overexpression of inducible cyclic AMP early repressor inhibits transactivation of genes and cell proliferation in pancreatic beta cells. *Molecular and Cellular Biology*, **2004**, 24, 2831-41	4.8	64
106	The pancreatic ductal epithelium serves as a potential pool of progenitor cells. *Pediatric Diabetes*, **2004**, 5 Suppl 2, 16-22	3.6	281
105	Five stages of evolving beta-cell dysfunction during progression to diabetes. *Diabetes*, **2004**, 53 Suppl 3, S16-21	0.9	719
104	Photo-acceleration of protein release from endosome in the protein transduction system. *FEBS Letters*, **2004**, 572, 221-6	3.8	57
103	Transplantation of islets transduced with CTLA4-Ig and TGFbeta using adenovirus and lentivirus vectors. *Transplant Immunology*, **2004**, 13, 191-200	1.7	24
102	Expression of the intermediate filament vimentin in proliferating duct cells as a marker of pancreatic precursor cells. *Pancreas*, **2004**, 28, 121-8	2.6	33

101	Critical reduction in beta-cell mass results in two distinct outcomes over time. Adaptation with impaired glucose tolerance or decompensated diabetes. *Journal of Biological Chemistry*, **2003**, 278, 2997-3005	5.4	127
100	Survival and maturation of microencapsulated porcine neonatal pancreatic cell clusters transplanted into immunocompetent diabetic mice. *Diabetes*, **2003**, 52, 69-75	0.9	115
99	PDX-1 protein containing its own antennapedia-like protein transduction domain can transduce pancreatic duct and islet cells. *Diabetes*, **2003**, 52, 1732-7	0.9	201
98	Importance of hyperglycemia on the primary function of allogeneic islet transplants. *Transplantation*, **2003**, 76, 657-64	1.8	29
97	Beta-cell deficit and increased beta-cell apoptosis in humans with type 2 diabetes. *Diabetes*, **2003**, 52, 102-10	0.9	3154
96	Macrophage depletion improves survival of porcine neonatal pancreatic cell clusters contained in alginate macrocapsules transplanted into rats. *Xenotransplantation*, **2003**, 10, 240-51	2.8	51
95	Development and retroviral transduction of porcine neonatal pancreatic islet cells in monolayer culture. *Development Growth and Differentiation*, **2003**, 45, 39-50	3	11
94	Selective beta-cell loss and alpha-cell expansion in patients with type 2 diabetes mellitus in Korea. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 2300-8	5.6	504
93	Suppression of beta cell energy metabolism and insulin release by PGC-1alpha. *Developmental Cell*, **2003**, 5, 73-83	10.2	121
92	Stem cells in diabetes: what has been achieved. *Hormone Research in Paediatrics*, **2003**, 60 Suppl 3, 10	3.3	8
91	Pancreatic stem cells. *Journal of Pathology*, **2002**, 197, 519-26	9.4	236
90	Overexpression of c-Myc in beta-cells of transgenic mice causes proliferation and apoptosis, downregulation of insulin gene expression, and diabetes. *Diabetes*, **2002**, 51, 1793-804	0.9	109
89	Genetic regulation of metabolic pathways in beta-cells disrupted by hyperglycemia. *Journal of Biological Chemistry*, **2002**, 277, 10912-21	5.4	154
88	Involvement of protein kinase C beta 2 in c-myc induction by high glucose in pancreatic beta-cells. *Journal of Biological Chemistry*, **2002**, 277, 3680-5	5.4	47
87	Involvement of c-Jun N-terminal kinase in oxidative stress-mediated suppression of insulin gene expression. *Journal of Biological Chemistry*, **2002**, 277, 30010-8	5.4	260
86	Induction of c-Myc expression suppresses insulin gene transcription by inhibiting NeuroD/BETA2-mediated transcriptional activation. *Journal of Biological Chemistry*, **2002**, 277, 12998-3006	5.4	51
85	Increased expression of antioxidant and antiapoptotic genes in islets that may contribute to beta-cell survival during chronic hyperglycemia. *Diabetes*, **2002**, 51, 413-23	0.9	159
84	NMR spectroscopy in beta cell engineering and islet transplantation. *Annals of the New York Academy of Sciences*, **2001**, 944, 96-119	6.5	31

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83	Activation of the hexosamine pathway leads to deterioration of pancreatic beta-cell function through the induction of oxidative stress. *Journal of Biological Chemistry*, **2001**, 276, 31099-104	5.4	226
82	beta-cell turnover: its assessment and implications. *Diabetes*, **2001**, 50 Suppl 1, S20-4	0.9	175
81	Noninvasive in vivo measurement of beta-cell mass in mouse model of diabetes. *Diabetes*, **2001**, 50, 2231-6	6.9	100
80	Translational control is required for the unfolded protein response and in vivo glucose homeostasis. *Molecular Cell*, **2001**, 7, 1165-76	17.6	1087
79	Adaptation of beta-cell mass to substrate oversupply: enhanced function with normal gene expression. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 280, E788-96	6	121
78	Porcine neonatal pancreatic cell clusters in tissue culture: benefits of serum and immobilization in alginate hydrogel. *Transplantation*, **2001**, 71, 1518-26	1.8	18
77	Strategies for βcell replacement in diabetes: obtaining and protecting islet tissue. *Current Opinion in Endocrinology, Diabetes and Obesity*, **2001**, 8, 213-218		1
76	Gene expression of VEGF and its receptors Flk-1/KDR and Flt-1 in cultured and transplanted rat islets. *Transplantation*, **2001**, 71, 924-35	1.8	83
75	Islets in alginate macrobeads reverse diabetes despite minimal acute insulin secretory responses. *Transplantation*, **2001**, 71, 203-11	1.8	64
74	Enhanced maturation of porcine neonatal pancreatic cell clusters with growth factors fails to improve transplantation outcome. *Transplantation*, **2001**, 71, 1154-62	1.8	18
73	Mechanisms of Postnatal βCell Mass Regulation. *Growth Hormone*, **2001**, 289-297		1
72	Improved vascularization of planar membrane diffusion devices following continuous infusion of vascular endothelial growth factor. *Cell Transplantation*, **2000**, 9, 115-24	4	73
71	Effects of diabetes and hypoxia on gene markers of angiogenesis (HGF, cMET, uPA and uPAR, TGF-alpha, TGF-beta, bFGF and Vimentin) in cultured and transplanted rat islets. *Diabetologia*, **2000**, 43, 763-72	10.3	72
70	In vitro cultivation of human islets from expanded ductal tissue. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 7999-8004	11.5	868
69	Perspective: Postnatal pancreatic beta cell growth. *Endocrinology*, **2000**, 141, 1926-9	4.8	196
68	Improved glucose and lipid metabolism in genetically obese mice lacking aP2. *Endocrinology*, **2000**, 141, 3388-96	4.8	251
67	Islet growth and development in the adult. *Journal of Molecular Endocrinology*, **2000**, 24, 297-302	4.5	265
66	Life and death of the pancreatic beta cells. *Trends in Endocrinology and Metabolism*, **2000**, 11, 375-8	8.8	233

65	Insulinotropic glucagon-like peptide 1 agonists stimulate expression of homeodomain protein IDX-1 and increase islet size in mouse pancreas. *Diabetes*, **2000**, 49, 741-8	0.9	504
64	Estimating number and volume of islets transplanted within a planar immunobarrier diffusion chamber. *Methods in Molecular Medicine*, **1999**, 18, 497-505		
63	Prior streptozotocin treatment does not inhibit pancreas regeneration after 90% pancreatectomy in rats. *American Journal of Physiology - Endocrinology and Metabolism*, **1999**, 276, E822-7	6	19
62	The homeodomain protein IDX-1 increases after an early burst of proliferation during pancreatic regeneration. *Diabetes*, **1999**, 48, 507-13	0.9	307
61	In situ electrochemical oxygen generation with an immunoisolation device. *Annals of the New York Academy of Sciences*, **1999**, 875, 105-25	6.5	52
60	The neuroendocrine protein 7B2 is required for peptide hormone processing in vivo and provides a novel mechanism for pituitary CushingB disease. *Cell*, **1999**, 96, 689-700	56.2	182
59	Exendin-4 stimulates both beta-cell replication and neogenesis, resulting in increased beta-cell mass and improved glucose tolerance in diabetic rats. *Diabetes*, **1999**, 48, 2270-6	0.9	1078
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