Susan Bonner-Weir , Susan Bonner Wei

List of Publications by Year
in descending order

258 papers	33,239 citations	4146 87 h-index	3830 178 g-index
262 all docs	262 docs citations	262 times ranked	22368 citing authors

#	Article	IF	Citations
1	Î²-Cell Deficit and Increased Î²-Cell Apoptosis in Humans With Type 2 Diabetes. Diabetes, 2003, 52, 102-110.	0.6	3,615
2	Disruption of IRS-2 causes type 2 diabetes in mice. Nature, 1998, 391, 900-904.	27.8	1,607
3	Translational Control Is Required for the Unfolded Protein Response and In Vivo Glucose Homeostasis. Molecular Cell, 2001, 7, 1165-1176.	9.7	1,217
4	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, 2270-2276.	0.6	1,161
5	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.	7.1	962
6	p16INK4a induces an age-dependent decline in islet regenerative potential. Nature, 2006, 443, 453-457.	27.8	922
7	Five Stages of Evolving Beta-Cell Dysfunction During Progression to Diabetes. Diabetes, 2004, 53, S16-S21.	0.6	888
8	A Second Pathway for Regeneration of Adult Exocrine and Endocrine Pancreas: A Possible Recapitulation of Embryonic Development. Diabetes, 1993, 42, 1715-1720.	0.6	628
9	Selective Î²-Cell Loss and Î±-Cell Expansion in Patients with Type 2 Diabetes Mellitus in Korea. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 2300-2308.	3.6	578
10	Insulinotropic glucagon-like peptide 1 agonists stimulate expression of homeodomain protein IDX-1 and increase islet size in mouse pancreas. Diabetes, 2000, 49, 741-748.	0.6	543
11	Development of a Novel Polygenic Model of NIDDM in Mice Heterozygous for IR and IRS-1 Null Alleles. Cell, 1997, 88, 561-572.	28.9	517
12	Role of apoptosis in failure of beta-cell mass compensation for insulin resistance and beta-cell defects in the male Zucker diabetic fatty rat. Diabetes, 1998, 47, 358-364.	0.6	495
13	Chronic Hyperglycemia Triggers Loss of Pancreatic Î² Cell Differentiation in an Animal Model of Diabetes. Journal of Biological Chemistry, 1999, 274, 14112-14121.	3.4	495
14	Residual Insulin Production and Pancreatic Î²-Cell Turnover After 50 Years of Diabetes: Joslin Medalist Study. Diabetes, 2010, 59, 2846-2853.	0.6	422
15	Partial pancreatectomy in the rat and subsequent defect in glucose-induced insulin release.. Journal of Clinical Investigation, 1983, 71, 1544-1553.	8.2	420
16	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, 19915-19919.	7.1	409
17	New sources of pancreatic Î²-cells. Nature Biotechnology, 2005, 23, 857-861.	17.5	381
18	Î²-Cell Dysfunction Induced by Chronic Hyperglycemia: Current Ideas on Mechanism of Impaired Glucose-Induced Insulin Secretion. Diabetes Care, 1992, 15, 442-455.	8.6	378

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19	Severe hypoglycaemia post-gastric bypass requiring partial pancreatectomy: evidence for inappropriate insulin secretion and pancreatic islet hyperplasia. Diabetologia, 2005, 48, 2236-2240.	6.3	345
20	The homeodomain protein IDX-1 increases after an early burst of proliferation during pancreatic regeneration. Diabetes, 1999, 48, 507-513.	0.6	319
21	Downregulation of GLP-1 and GIP Receptor Expression by Hyperglycemia: Possible Contribution to Impaired Incretin Effects in Diabetes. Diabetes, 2007, 56, 1551-1558.	0.6	319
22	The pancreatic ductal epithelium serves as a potential pool of progenitor cells. Pediatric Diabetes, 2004, 5, 16-22.	2.9	311
23	Involvement of c-Jun N-terminal Kinase in Oxidative Stress-mediated Suppression of Insulin Gene Expression. Journal of Biological Chemistry, 2002, 277, 30010-30018.	3.4	294
24	Improved Glucose and Lipid Metabolism in Genetically Obese Mice Lacking aP2. Endocrinology, 2000, 141, 3388-3396.	2.8	292
25	Islet growth and development in the adult. Journal of Molecular Endocrinology, 2000, 24, 297-302.	2.5	287
26	Defective insulin secretion in hepatocyte nuclear factor 1alpha-deficient mice.. Journal of Clinical Investigation, 1998, 101, 2215-2222.	8.2	286
27	Activation of the Hexosamine Pathway Leads to Deterioration of Pancreatic Î²-Cell Function through the Induction of Oxidative Stress. Journal of Biological Chemistry, 2001, 276, 31099-31104.	3.4	279
28	Acceleration of Î² Cell Aging Determines Diabetes and Senolysis Improves Disease Outcomes. Cell Metabolism, 2019, 30, 129-142.e4.	16.2	277
29	A switch from MafB to MafA expression accompanies differentiation to pancreatic Î²-cells. Developmental Biology, 2006, 293, 526-539.	2.0	268
30	Islet amyloid formation associated with hyperglycemia in transgenic mice with pancreatic beta cell expression of human islet amyloid polypeptide.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 3492-3496.	7.1	267
31	Pancreatic stem cells. Journal of Pathology, 2002, 197, 519-526.	4.5	265
32	Islet Î² 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.	3.8	264
33	Life and Death of the Pancreatic Î² Cells. Trends in Endocrinology and Metabolism, 2000, 11, 375-378.	7.1	257
34	Gene Expression Profiles of Beta-Cell Enriched Tissue Obtained by Laser Capture Microdissection from Subjects with Type 2 Diabetes. PLoS ONE, 2010, 5, e11499.	2.5	252
35	In vivo imaging of islet transplantation. Nature Medicine, 2006, 12, 144-148.	30.7	248
36	Perspective: Postnatal Pancreatic Î² Cell Growth. Endocrinology, 2000, 141, 1926-1929.	2.8	222

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37	PDX-1 Protein Containing Its Own Antennapedia-Like Protein Transduction Domain Can Transduce Pancreatic Duct and Islet Cells. Diabetes, 2003, 52, 1732-1737.	0.6	219
38	The cholecystokinin-A receptor mediates inhibition of food intake yet is not essential for the maintenance of body weight. Journal of Clinical Investigation, 1999, 103, 383-391.	8.2	218
39	Î²-Cell Growth and Regeneration: Replication Is Only Part of the Story. Diabetes, 2010, 59, 2340-2348.	0.6	212
40	REPRODUCIBLE HIGH YIELD OF RAT ISLETS BY STATIONARY IN VITRO DIGESTION FOLLOWING PANCREATIC DUCTAL OR PORTAL VENOUS COLLAGENASE INJECTION1. Transplantation, 1987, 43, 725-730.	1.0	208
41	Beta-cell turnover: its assessment and implications. Diabetes, 2001, 50, S20-S24.	0.6	201
42	The Neuroendocrine Protein 7B2 Is Required for Peptide Hormone Processing In Vivo and Provides a Novel Mechanism for Pituitary Cushingâ€™s Disease. Cell, 1999, 96, 689-700.	28.9	191
43	ANGPTL8/Betatrophin Does Not Control Pancreatic Beta Cell Expansion. Cell, 2014, 159, 691-696.	28.9	187
44	Increased Expression of Antioxidant and Antiapoptotic Genes in Islets That May Contribute to Â-Cell Survival During Chronic Hyperglycemia. Diabetes, 2002, 51, 413-423.	0.6	183
45	Beta cell mass and growth after syngeneic islet cell transplantation in normal and streptozocin diabetic C57BL/6 mice.. Journal of Clinical Investigation, 1993, 91, 780-787.	8.2	178
46	Genetic Regulation of Metabolic Pathways in Î²-Cells Disrupted by Hyperglycemia. Journal of Biological Chemistry, 2002, 277, 10912-10921.	3.4	173
47	Pancreatic Î² Cell Regeneration as a Possible Therapy for Diabetes. Cell Metabolism, 2018, 27, 57-67.	16.2	172
48	Reduced expression of the liver/beta-cell glucose transporter isoform in glucose-insensitive pancreatic beta cells of diabetic rats.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6492-6496.	7.1	171
49	Tissue-specific disallowance of housekeeping genes: The other face of cell differentiation. Genome Research, 2011, 21, 95-105.	5.5	163
50	In Vivo Imaging of Immune Rejection in Transplanted Pancreatic Islets. Diabetes, 2006, 55, 2419-2428.	0.6	158
51	Mutations at the <i>BLK</i> locus linked to maturity onset diabetes of the young and Î²-cell dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14460-14465.	7.1	156
52	Curative and Î² cell regenerative effects of Î±1-antitrypsin treatment in autoimmune diabetic NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16242-16247.	7.1	154
53	Stem cell therapy for type 1 diabetes mellitus. Nature Reviews Endocrinology, 2010, 6, 139-148.	9.6	153
54	Transdifferentiation of pancreatic ductal cells to endocrine Î²-cells. Biochemical Society Transactions, 2008, 36, 353-356.	3.4	152

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55	Minimal chronic hyperglycemia is a critical determinant of impaired insulin secretion after an incomplete pancreatectomy.. Journal of Clinical Investigation, 1988, 81, 1407-1414.	8.2	152
56	Î² Cell Aging Markers Have Heterogeneous Distribution and Are Induced by Insulin Resistance. Cell Metabolism, 2017, 25, 898-910.e5.	16.2	149
57	OUTCOME OF SUBCUTANEOUS ISLET TRANSPLANTATION IMPROVED BY POLYMER DEVICE1. Transplantation, 1996, 61, 1557-1561.	1.0	146
58	Regulatory factor linked to late-onset diabetes?. Nature, 1998, 392, 560-560.	27.8	144
59	Activation of pancreatic-duct-derived progenitor cells during pancreas regeneration in adult rats. Journal of Cell Science, 2010, 123, 2792-2802.	2.0	143
60	Critical Reduction in Î²-Cell Mass Results in Two Distinct Outcomes over Time. Journal of Biological Chemistry, 2003, 278, 2997-3005.	3.4	140
61	Differentiation of Affinity-Purified Human Pancreatic Duct Cells to Â-Cells. Diabetes, 2007, 56, 1802-1809.	0.6	139
62	Mafa expression enhances glucose-responsive insulin secretion in neonatal rat beta cells. Diabetologia, 2011, 54, 583-593.	6.3	138
63	Quantitative analysis of cell composition and purity of human pancreatic islet preparations. Laboratory Investigation, 2010, 90, 1661-1675.	3.7	137
64	Adaptation of Î²-cell mass to substrate oversupply: enhanced function with normal gene expression. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E788-E796.	3.5	135
65	Suppression of Î² Cell Energy Metabolism and Insulin Release by PGC-1Î±. Developmental Cell, 2003, 5, 73-83.	7.0	134
66	Dimorphic histopathology of long-standing childhood-onset diabetes. Diabetologia, 2010, 53, 690-698.	6.3	134
67	Islets of Langerhans: the puzzle of intraislet interactions and their relevance to diabetes.. Journal of Clinical Investigation, 1990, 85, 983-987.	8.2	130
68	Overexpression of c-Myc in Â-Cells of Transgenic Mice Causes Proliferation and Apoptosis, Downregulation of Insulin Gene Expression, and Diabetes. Diabetes, 2002, 51, 1793-1804.	0.6	126
69	Survival and Maturation of Microencapsulated Porcine Neonatal Pancreatic Cell Clusters Transplanted into Immunocompetent Diabetic Mice. Diabetes, 2003, 52, 69-75.	0.6	125
70	Hypoxia induces vascular endothelial growth factor gene and protein expression in cultured rat islet cells. Diabetes, 1998, 47, 1894-1903.	0.6	124
71	Enhanced insulin-like growth factor I gene expression in regenerating rat pancreas.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6152-6156.	7.1	122
72	2 Intra-islet insulinâ€"glucagonâ€"somatostatin relationships. Clinics in Endocrinology and Metabolism, 1986, 15, 33-58.	1.6	120

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73	Thyroid Hormone Promotes Postnatal Rat Pancreatic Î²-Cell Development and Glucose-Responsive Insulin Secretion Through MAFA. Diabetes, 2013, 62, 1569-1580.	0.6	120
74	Responses of neonatal rat islets to streptozotocin: limited B-cell regeneration and hyperglycemia. Diabetes, 1981, 30, 64-69.	0.6	117
75	Conversion of Mature Human Î²-Cells Into Glucagon-Producing Î±-Cells. Diabetes, 2013, 62, 2471-2480.	0.6	115
76	Inadequate Î²-cell mass is essential for the pathogenesis of type 2 diabetes. Lancet Diabetes and Endocrinology,the, 2020, 8, 249-256.	11.4	114
77	Compensatory growth of pancreatic beta-cells in adult rats after short-term glucose infusion. Diabetes, 1989, 38, 49-53.	0.6	114
78	Vulnerability of islets in the immediate posttransplantation period. Dynamic changes in structure and function. Diabetes, 1996, 45, 1161-1167.	0.6	112
79	Rat neonatal beta cells lack the specialised metabolic phenotype of mature beta cells. Diabetologia, 2011, 54, 594-604.	6.3	111
80	BETA2/NeuroD Protein Can Be Transduced Into Cells Due to an Arginine- and Lysine-Rich Sequence. Diabetes, 2005, 54, 2859-2866.	0.6	110
81	Noninvasive In Vivo Measurement of Â-Cell Mass in Mouse Model of Diabetes. Diabetes, 2001, 50, 2231-2236.	0.6	106
82	Expansion of Adult Human Pancreatic Tissue Yields Organoids Harboring Progenitor Cells with Endocrine Differentiation Potential. Stem Cell Reports, 2018, 10, 712-724.	4.8	106
83	GLP-1/exendin-4 facilitates Î²-cell neogenesis in rat and human pancreatic ducts. Diabetes Research and Clinical Practice, 2006, 73, 107-110.	2.8	102
84	Î²-cell dedifferentiation in diabetes is important, but what is it?. Islets, 2013, 5, 233-237.	1.8	102
85	IMMUNOCYTOCHEMISTRY OF VITAMIN D-DEPENDENT CALCIUM BINDING PROTEIN IN CHICK PANCREAS: EXCLUSIVE LOCALIZATION IN B-CELLS.*. Endocrinology, 1982, 110, 2216-2218.	2.8	101
86	Islet secretion in a new experimental model for non-insulin-dependent diabetes. Diabetes, 1981, 30, 590-595.	0.6	100
87	Human Islet Morphology Revisited. Journal of Histochemistry and Cytochemistry, 2015, 63, 604-612.	2.5	92
88	GENE EXPRESSION OF VEGF AND ITS RECEPTORS Flk-1/KDR AND Flt-1 IN CULTURED AND TRANSPLANTED RAT ISLETS1. Transplantation, 2001, 71, 924-935.	1.0	89
89	Regulation of Pancreatic Î²-Cell Mass in Vivo. , 1994, 49, 91-104.		86
90	Differentiation and Expansion of Beta Cell Mass in Porcine Neonatal Pancreatic Cell Clusters Transplanted into Nude Mice. Cell Transplantation, 1999, 8, 673-689.	2.5	86

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91	Induction of Pancreatic Stem/Progenitor Cells into Insulin-Producing Cells by Adenoviral-Mediated Gene Transfer Technology. Cell Transplantation, 2006, 15, 929-938.	2.5	85
92	Rat islet cell aggregates are superior to islets for transplantation in microcapsules. Diabetologia, 2010, 53, 937-945.	6.3	85
93	Improved Vascularization of Planar Membrane Diffusion Devices following Continuous Infusion of Vascular Endothelial Growth Factor. Cell Transplantation, 2000, 9, 115-124.	2.5	79
94	Islet transplantation outcomes in mice are better with fresh islets and exendin-4 treatment. Diabetologia, 2005, 48, 2074-2079.	6.3	78
95	Perspective: Postnatal Pancreatic Â Cell Growth. Endocrinology, 2000, 141, 1926-1929.	2.8	78
96	Effects of diabetes and hypoxia on gene markers of angiogenesis (HGF, cMET, uPA and uPAR, TGF-Î±, TGF-Î²,) Tj ETQq0 0 0 rgBT /Overloc	6.3	76
97	FUNCTION AND SURVIVAL OF MACROENCAPSULATED SYNGENEIC ISLETS TRANSPLANTED INTO STREPTOZOCIN-DIABETIC MICE1. Transplantation, 1998, 66, 21-28.	1.0	75
98	Mice with a Targeted Deletion of the Type 2 Deiodinase Are Insulin Resistant and Susceptible to Diet Induced Obesity. PLoS ONE, 2011, 6, e20832.	2.5	74
99	Gene Expression of Purified Î²-Cell Tissue Obtained from Human Pancreas with Laser Capture Microdissection. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 1046-1053.	3.6	73
100	Overexpression of Inducible Cyclic AMP Early Repressor Inhibits Transactivation of Genes and Cell Proliferation in Pancreatic Î² Cells. Molecular and Cellular Biology, 2004, 24, 2831-2841.	2.3	71
101	Islet cell growth and the growth factors involved. Trends in Endocrinology and Metabolism, 1994, 5, 60-64.	7.1	69
102	ISLETS IN ALGINATE MACROBEADS REVERSE DIABETES DESPITE MINIMAL ACUTE INSULIN SECRETORY RESPONSES1. Transplantation, 2001, 71, 203-211.	1.0	68
103	Adult mouse intrahepatic biliary epithelial cells induced in vitro to become insulin-producing cells. Journal of Endocrinology, 2009, 201, 37-47.	2.6	66
104	Photo-acceleration of protein release from endosome in the protein transduction system. FEBS Letters, 2004, 572, 221-226.	2.8	64
105	Preservation of Î²-cell function by targeting Î²-cell mass. Trends in Pharmacological Sciences, 2008, 29, 218-227.	8.7	64
106	Ductal Origin Hypothesis of Pancreatic Regeneration under Attack. Cell Metabolism, 2010, 11, 2-3.	16.2	64
107	Concise Review: Pancreas Regeneration: Recent Advances and Perspectives. Stem Cells Translational Medicine, 2012, 1, 150-159.	3.3	64
108	In Situ Electrochemical Oxygen Generation with an Immunoisolation Device. Annals of the New York Academy of Sciences, 1999, 875, 105-125.	3.8	63

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109	Induction of c-Myc Expression Suppresses Insulin Gene Transcription by Inhibiting NeuroD/BETA2-mediated Transcriptional Activation. Journal of Biological Chemistry, 2002, 277, 12998-13006.	3.4	63
110	REVERSAL OF HYPERGLYCEMIA IN MICE AFTER SUBCUTANEOUS TRANSPLANTATION OF MACROENCAPSULATED ISLETS1. Transplantation, 1999, 67, 665-671.	1.0	63
111	Residual Î² cell function and monogenic variants in long-duration type 1 diabetes patients. Journal of Clinical Investigation, 2019, 129, 3252-3263.	8.2	62
112	Islets in Type 2 Diabetes: In Honor of Dr. Robert C. Turner. Diabetes, 2008, 57, 2899-2904.	0.6	61
113	Morphological evidence for pancreatic polarity of beta-cell within islets of Langerhans. Diabetes, 1988, 37, 616-621.	0.6	61
114	Beta cell identity changes with mild hyperglycemia: Implications for function, growth, and vulnerability. Molecular Metabolism, 2020, 35, 100959.	6.5	60
115	Mechanism of PDX-1 protein transduction. Biochemical and Biophysical Research Communications, 2005, 332, 68-74.	2.1	59
116	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, 13074-13079.	7.1	59
117	Protein-tyrosine Phosphatase 1B Deficiency Reduces Insulin Resistance and the Diabetic Phenotype in Mice with Polygenic Insulin Resistance*. Journal of Biological Chemistry, 2007, 282, 23829-23840.	3.4	58
118	Single pancreatic beta cells co-express multiple islet hormone genes in mice. Diabetologia, 2010, 53, 128-138.	6.3	58
119	Quantitative Assessment of Islets of Langerhans Encapsulated in Alginate. Tissue Engineering - Part C: Methods, 2011, 17, 435-449.	2.1	58
120	Transplanted beta cell response to increased metabolic demand. Changes in beta cell replication and mass.. Journal of Clinical Investigation, 1994, 93, 1577-1582.	8.2	58
121	A dominant role for glucose in Î² cell compensation of insulin resistance. Journal of Clinical Investigation, 2007, 117, 81-83.	8.2	56
122	Changes in gene expression in beta cells after islet isolation and transplantation using laser-capture microdissection. Diabetologia, 2007, 50, 334-342.	6.3	56
123	Macrophage depletion improves survival of porcine neonatal pancreatic cell clusters contained in alginate macrocapsules transplanted into rats. Xenotransplantation, 2003, 10, 240-251.	2.8	55
124	Are there pancreatic progenitor cells from which new islets form after birth?. Nature Clinical Practice Endocrinology and Metabolism, 2006, 2, 240-241.	2.8	55
125	Involvement of Protein Kinase C Î²2 in c-mycInduction by High Glucose in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2002, 277, 3680-3685.	3.4	54
126	In vivo multimodal imaging of transplanted pancreatic islets. Nature Protocols, 2006, 1, 429-435.	12.0	53

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127	Preferential reduction of Î² cells derived from Pax6â€"MafB pathway in MafB deficient mice. Developmental Biology, 2008, 314, 443-456.	2.0	53
128	Evidence for a Role of the Ubiquitin-Proteasome Pathway in Pancreatic Islets. Diabetes, 2006, 55, 1223-1231.	0.6	52
129	Dynamic development of the pancreas from birth to adulthood. Upsala Journal of Medical Sciences, 2016, 121, 155-158.	0.9	52
130	Normal Relationship of Â- and Non Â-Cells Not Needed for Successful Islet Transplantation. Diabetes, 2007, 56, 2312-2318.	0.6	50
131	Discordance of exocrine and endocrine growth after 90% pancreatectomy in rats. Diabetes, 1988, 37, 232-236.	0.6	50
132	PROLONGED XENOGRAFT SURVIVAL OF ISLETS INFECTED WITH SMALL DOSES OF ADENOVIRUS EXPRESSING CTLA4Ig1. Transplantation, 1999, 67, 1607-1613.	1.0	49
133	Islet Neogenesis: A Possible Pathway for Beta-Cell Replenishment. Review of Diabetic Studies, 2012, 9, 407-416.	1.3	49
134	Limited B cell regeneration in a B cell deficient rat model: Studies with dexamethasone. Metabolism: Clinical and Experimental, 1981, 30, 914-918.	3.4	47
135	Implicating PARP and NAD+ depletion in type I diabetes. Nature Medicine, 1999, 5, 269-270.	30.7	47
136	Regenerating pancreatic Î²-cells: plasticity of adult pancreatic cells and the feasibility of in-vivo neogenesis. Current Opinion in Organ Transplantation, 2010, 15, 79-85.	1.6	47
137	Subpopulations of GFP-Marked Mouse Pancreatic Î²-Cells Differ in Size, Granularity, and Insulin Secretion. Endocrinology, 2012, 153, 5180-5187.	2.8	47
138	Reanalysis of study of pancreatic effects of incretin therapy: methodological deficiencies. Diabetes, Obesity and Metabolism, 2014, 16, 661-666.	4.4	47
139	Influence of diabetes on the loss of beta cell differentiation after islet transplantation in rats. Diabetologia, 2007, 50, 2117-2125.	6.3	45
140	Stem cell approaches for diabetes: towards beta cell replacement. Genome Medicine, 2011, 3, 61.	8.2	45
141	Making Î² Cells from Adult Cells Within the Pancreas. Current Diabetes Reports, 2013, 13, 695-703.	4.2	45
142	Islet mass and function in diabetes and transplantation. Diabetes, 1990, 39, 401-405.	0.6	44
143	The organization of the endocrine pancreas: A hypothetical unifying view of the phylogenetic differences. General and Comparative Endocrinology, 1979, 38, 28-37.	1.8	43
144	Establishment of a Diabetic Mouse Model with Progressive Diabetic Nephropathy. American Journal of Pathology, 2005, 167, 327-336.	3.8	42

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145	Identification of Markers for Newly Formed Î²-Cells in the Perinatal Period: A Time of Recognized Î²-Cell Immaturity. Journal of Histochemistry and Cytochemistry, 2010, 58, 369-376.	2.5	42
146	Reduced Ki67 Staining in the Postmortem State Calls Into Question Past Conclusions About the Lack of Turnover of Adult Human Î²-Cells. Diabetes, 2015, 64, 1698-1702.	0.6	40
147	Expression of the Intermediate Filament Vimentin in Proliferating Duct Cells as a Marker of Pancreatic Precursor Cells. Pancreas, 2004, 28, 121-128.	1.1	39
148	Expression of MafA in pancreatic progenitors is detrimental for pancreatic development. Developmental Biology, 2009, 333, 108-120.	2.0	39
149	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, 3651-3659.	3.6	38
150	Porcine Marginal Mass Islet Autografts Resist Metabolic Failure Over Time and Are Enhanced by Early Treatment with Liraglutide. Endocrinology, 2009, 150, 2145-2152.	2.8	36
151	Abnormal glucose regulation of insulin secretion in models of reduced B-cell mass. Diabetes, 1984, 33, 667-673.	0.6	36
152	Beneficial influence of glycemic control upon the growth and function of transplanted islets. Diabetes, 1994, 43, 1334-1339.	0.6	36
153	Transcription factor abnormalities as a cause of beta cell dysfunction in diabetes: a hypothesis. Acta Diabetologica, 1997, 34, 177-184.	2.5	35
154	Importance of hyperglycemia on the primary function of allogeneic islet transplants1. Transplantation, 2003, 76, 657-664.	1.0	35
155	Imaging Â-Cell Death With a Near-Infrared Probe. Diabetes, 2005, 54, 1780-1788.	0.6	35
156	NMR Spectroscopy in Î² Cell Engineering and Islet Transplantation. Annals of the New York Academy of Sciences, 2001, 944, 96-119.	3.8	35
157	Timing and expression pattern of carbonic anhydrase II in pancreas. Developmental Dynamics, 2006, 235, 1571-1577.	1.8	35
158	p38 MAPK Is a Major Regulator of MafA Protein Stability under Oxidative Stress. Molecular Endocrinology, 2009, 23, 1281-1290.	3.7	34
159	Pancreatic Duct Ligation After Almost Complete Î²-Cell Loss: Exocrine Regeneration but No Evidence of Î²-Cell Regeneration. Endocrinology, 2013, 154, 4493-4502.	2.8	34
160	Occurrence of Spontaneous Pancreatic Lesions in Normal and Diabetic Rats: A Potential Confounding Factor in the Nonclinical Assessment of GLP-1â€"Based Therapies. Diabetes, 2014, 63, 1303-1314.	0.6	33
161	Loss of Ncb5or Results in Impaired Fatty Acid Desaturation, Lipoatrophy, and Diabetes. Journal of Biological Chemistry, 2008, 283, 29285-29291.	3.4	31
162	Finally! A human pancreatic Î² cell line. Journal of Clinical Investigation, 2011, 121, 3395-3397.	8.2	31

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163	Prior streptozotocin treatment does not inhibit pancreas regeneration after 90% pancreatectomy in rats. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E822-E827.	3.5	30
164	Protective Unfolded Protein Response in Human Pancreatic Beta Cells Transplanted into Mice. PLoS ONE, 2010, 5, e11211.	2.5	29
165	Transplantation of islets transduced with CTLA4-Ig and TGFÎ² using adenovirus and lentivirus vectors. Transplant Immunology, 2004, 13, 191-200.	1.2	28
166	Induced ICER IÎ³ down-regulates cyclin A expression and cell proliferation in insulin-producing Î² cells. Biochemical and Biophysical Research Communications, 2005, 329, 925-929.	2.1	28
167	Reprogramming Mouse Cells With a Pancreatic Duct Phenotype to Insulin-Producing Î²-Like Cells. Endocrinology, 2015, 156, 2029-2038.	2.8	28
168	Hyperglycaemia attenuates in vivo reprogramming of pancreatic exocrine cells to beta cells in mice. Diabetologia, 2016, 59, 522-532.	6.3	27
169	Heterogeneity of SOX9 and HNF1Î² in Pancreatic Ducts Is Dynamic. Stem Cell Reports, 2018, 10, 725-738.	4.8	27
170	Unique Human and Mouse Î²-Cell Senescence-Associated Secretory Phenotype (SASP) Reveal Conserved Signaling Pathways and Heterogeneous Factors. Diabetes, 2021, 70, 1098-1116.	0.6	27
171	Î²-Cell Differentiation of Human Pancreatic Ductâ€"Derived Cells After In Vitro Expansion. Cellular Reprogramming, 2014, 16, 456-466.	0.9	26
172	Birth and Death of Human Î²-Cells in Pancreases from Cadaver Donors, Autopsies, Surgical Specimens, and Islets Transplanted into Mice. Cell Transplantation, 2014, 23, 139-151.	2.5	26
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