Alvin C Powers

List of Publications by Year
in descending order

156 papers	12,026 citations	22153 59 h-index	30922 102 g-index
165 all docs	165 docs citations	165 times ranked	13323 citing authors

#	Article	IF	Citations
1	Assessment of Human Pancreatic Islet Architecture and Composition by Laser Scanning Confocal Microscopy. Journal of Histochemistry and Cytochemistry, 2005, 53, 1087-1097.	2.5	647
2	Inactivation of specific Î² cell transcription factors in type 2 diabetes. Journal of Clinical Investigation, 2013, 123, 3305-3316.	8.2	414
3	Pathogenic CD4 T cells in type 1 diabetes recognize epitopes formed by peptide fusion. Science, 2016, 351, 711-714.	12.6	407
4	Pancreatic Islet Production of Vascular Endothelial Growth Factor-A Is Essential for Islet Vascularization, Revascularization, and Function. Diabetes, 2006, 55, 2974-2985.	0.6	386
5	Î²-Cell Failure in Type 2 Diabetes: Postulated Mechanisms and Prospects for Prevention and Treatment. Diabetes Care, 2014, 37, 1751-1758.	8.6	379
6	Reduction in Pancreatic Transcription Factor PDX-1 Impairs Glucose-stimulated Insulin Secretion. Journal of Biological Chemistry, 2002, 277, 11225-11232.	3.4	347
7	An encapsulation system for the immunoisolation of pancreatic islets. Nature Biotechnology, 1997, 15, 358-362.	17.5	311
8	Conditional Gene Targeting in Mouse Pancreatic Î²-Cells. Diabetes, 2010, 59, 3090-3098.	0.6	288
9	p16Ink4a-induced senescence of pancreatic beta cells enhances insulin secretion. Nature Medicine, 2016, 22, 412-420.	30.7	252
10	Analysis of self-antigen specificity of islet-infiltrating T cells from human donors with type 1 diabetes. Nature Medicine, 2016, 22, 1482-1487.	30.7	232
11	Intraislet Endothelial Cells Contribute to Revascularization of Transplanted Pancreatic Islets. Diabetes, 2004, 53, 1318-1325.	0.6	228
12	Glucose Metabolism In Vivo in Four Commonly Used Inbred Mouse Strains. Diabetes, 2008, 57, 1790-1799.	0.6	225
13	Insulin Access and Affordability Working Group: Conclusions and Recommendations. Diabetes Care, 2018, 41, 1299-1311.	8.6	210
14	Age-Dependent Pancreatic Gene Regulation Reveals Mechanisms Governing Human Î² Cell Function. Cell Metabolism, 2016, 23, 909-920.	16.2	205
15	Islet Microenvironment, Modulated by Vascular Endothelial Growth Factor-A Signaling, Promotes Î² Cell Regeneration. Cell Metabolism, 2014, 19, 498-511.	16.2	177
16	Î²-Cell Failure in Type 2 Diabetes: Postulated Mechanisms and Prospects for Prevention and Treatment. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 1983-1992.	3.6	171
17	Liver-Specific Disruption of the Murine Glucagon Receptor Produces Î±-Cell Hyperplasia. Diabetes, 2013, 62, 1196-1205.	0.6	162
18	Endocrine toxicities of immune checkpoint inhibitors. Nature Reviews Endocrinology, 2021, 17, 389-399.	9.6	162

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19	Interrupted Glucagon Signaling Reveals Hepatic Î± Cell Axis and Role for L-Glutamine in Î± Cell Proliferation. Cell Metabolism, 2017, 25, 1362-1373.e5.	16.2	153
20	Î± Cell Function and Gene Expression Are Compromised in Type 1 Diabetes. Cell Reports, 2018, 22, 2667-2676.	6.4	152
21	Multiplexed In Situ Imaging Mass Cytometry Analysis of the Human Endocrine Pancreas and Immune System in Type 1 Diabetes. Cell Metabolism, 2019, 29, 769-783.e4.	16.2	151
22	SARS-CoV-2 Cell Entry Factors ACE2 and TMPRSS2 Are Expressed in the Microvasculature and Ducts of Human Pancreas but Are Not Enriched in Î² Cells. Cell Metabolism, 2020, 32, 1028-1040.e4.	16.2	148
23	Real-time, multidimensional in vivo imaging used to investigate blood flow in mouse pancreatic islets. Journal of Clinical Investigation, 2008, 118, 3790-3797.	8.2	148
24	Islet-enriched gene expression and glucose-induced insulin secretion in human and mouse islets. Diabetologia, 2012, 55, 707-718.	6.3	140
25	Cystic fibrosisâ€“related diabetes is caused by islet loss and inflammation. JCI Insight, 2018, 3, .	5.0	127
26	Polymer Scaffolds as Synthetic Microenvironments for Extrahepatic Islet Transplantation. Transplantation, 2006, 82, 452-459.	1.0	126
27	Single-Cell Mass Cytometry Analysis of the Human Endocrine Pancreas. Cell Metabolism, 2016, 24, 616-626.	16.2	126
28	Current Concepts on the Pathogenesis of Type 1 Diabetesâ€"Considerations for Attempts to Prevent and Reverse the Disease. Diabetes Care, 2015, 38, 979-988.	8.6	125
29	Age-dependent human Î² cell proliferation induced by glucagon-like peptide 1 and calcineurin signaling. Journal of Clinical Investigation, 2017, 127, 3835-3844.	8.2	118
30	Glycoprotein 2 is a specific cell surface marker of human pancreatic progenitors. Nature Communications, 2017, 8, 331.	12.8	115
31	Impact of Medical Student Research in the Development of Physician-Scientists. Journal of Investigative Medicine, 2003, 51, 149-156.	1.6	112
32	Tamoxifen-Induced Cre-loxP Recombination Is Prolonged in Pancreatic Islets of Adult Mice. PLoS ONE, 2012, 7, e33529.	2.5	112
33	Suppression of Insulin Production and Secretion by a Decretin Hormone. Cell Metabolism, 2015, 21, 323-334.	16.2	111
34	Signals in the pancreatic islet microenvironment influence Î²â€cell proliferation. Diabetes, Obesity and Metabolism, 2017, 19, 124-136.	4.4	111
35	Use of human islets to understand islet biology and diabetes: progress, challenges and suggestions. Diabetologia, 2019, 62, 212-222.	6.3	109
36	The MafA Transcription Factor Becomes Essential to Islet Î²-Cells Soon After Birth. Diabetes, 2014, 63, 1994-2005.	0.6	106

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37	PDX1 Deficiency Causes Mitochondrial Dysfunction and Defective Insulin Secretion through TFAM Suppression. Cell Metabolism, 2009, 10, 110-118.	16.2	102
38	Revascularization of Transplanted Islets. Diabetes, 2008, 57, 2269-2271.	0.6	101
39	Pancreatic Islet Vasculature Adapts to Insulin Resistance Through Dilation and Not Angiogenesis. Diabetes, 2013, 62, 4144-4153.	0.6	98
40	Oxidative Stress Is a Mediator of Glucose Toxicity in Insulin-secreting Pancreatic Islet Cell Lines. Journal of Biological Chemistry, 2004, 279, 12126-12134.	3.4	92
41	Microtubules Negatively Regulate Insulin Secretion in Pancreatic Î² Cells. Developmental Cell, 2015, 34, 656-668.	7.0	90
42	HLA Class II Antigen Processing and Presentation Pathway Components Demonstrated by Transcriptome and Protein Analyses of Islet Î²-Cells From Donors With Type 1 Diabetes. Diabetes, 2019, 68, 988-1001.	0.6	90
43	Reduced PDX-1 expression impairs islet response to insulin resistance and worsens glucose homeostasis. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E707-E714.	3.5	89
44	Individual Mice Can Be Distinguished by the Period of Their Islet Calcium Oscillations. Diabetes, 2005, 54, 3517-3522.	0.6	89
45	Human Islets Have Fewer Blood Vessels than Mouse Islets and the Density of Islet Vascular Structures Is Increased in Type 2 Diabetes. Journal of Histochemistry and Cytochemistry, 2015, 63, 637-645.	2.5	89
46	Differential Expression of Glutamate Receptor Subtypes in Rat Pancreatic Islets. Journal of Biological Chemistry, 1996, 271, 12977-12984.	3.4	87
47	Assessment of Pancreatic Islet Mass after Islet Transplantation Using In Vivo Bioluminescence Imaging. Transplantation, 2005, 79, 768-776.	1.0	87
48	Stress-impaired transcription factor expression and insulin secretion in transplanted human islets. Journal of Clinical Investigation, 2016, 126, 1857-1870.	8.2	86
49	Vascular Endothelial Growth Factor-A and Islet Vascularization Are Necessary in Developing, but Not Adult, Pancreatic Islets. Diabetes, 2013, 62, 4154-4164.	0.6	82
50	Increased Reporting of Immune Checkpoint Inhibitorâ€“Associated Diabetes. Diabetes Care, 2018, 41, e150-e151.	8.6	82
51	Gut-Proglucagon-Derived Peptides Are Essential for Regulating Glucose Homeostasis in Mice. Cell Metabolism, 2019, 30, 976-986.e3.	16.2	82
52	Enhanced expression of VEGF-A in Î² cells increases endothelial cell number but impairs islet morphogenesis and Î² cell proliferation. Developmental Biology, 2012, 367, 40-54.	2.0	77
53	Vascular endothelial growth factor coordinates islet innervation via vascular scaffolding. Development (Cambridge), 2014, 141, 1480-1491.	2.5	77
54	Î²-Cell Replacement in Mice Using Human Type 1 Diabetes Nuclear Transfer Embryonic Stem Cells. Diabetes, 2018, 67, 26-35.	0.6	74

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55	Increased Insulin-Like Growth Factor II Production and Consequent Suppression of Growth Hormone Secretion: A Dual Mechanism for Tumor-Induced Hypoglycemia. Journal of Clinical Endocrinology and Metabolism, 1989, 68, 701-706.	3.6	72
56	Human islet preparations distributed for research exhibit a variety of insulin-secretory profiles. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E592-E602.	3.5	69
57	NIH Initiative to Improve Understanding of the Pancreas, Islet, and Autoimmunity in Type 1 Diabetes: The Human Pancreas Analysis Program (HPAP). Diabetes, 2019, 68, 1394-1402.	0.6	69
58	Human Immune System Development and Rejection of Human Islet Allografts in Spontaneously Diabetic NOD-<i>Rag1null IL2r</i>Î³<i>null</i>â€ˆ<i>Ins2Akita</i> Mice. Diabetes, 2010, 59, 2265-2270.	0.6	68
59	Bioluminescence Imaging in Mouse Models Quantifies Î² Cell Mass in the Pancreas and After Islet Transplantation. Molecular Imaging and Biology, 2010, 12, 42-53.	2.6	66
60	Pancreas Volume Declines During the First Year After Diagnosis of Type 1 Diabetes and Exhibits Altered Diffusion at Disease Onset. Diabetes Care, 2019, 42, 248-257.	8.6	66
61	Human islets expressing HNF1A variant have defective Î² cell transcriptional regulatory networks. Journal of Clinical Investigation, 2018, 129, 246-251.	8.2	65
62	Age-Dependent Decline in the Coordinated [Ca2+] and Insulin Secretory Dynamics in Human Pancreatic Islets. Diabetes, 2017, 66, 2436-2445.	0.6	63
63	Modifying Enzymes Are Elicited by ER Stress, Generating Epitopes That Are Selectively Recognized by CD4+ T Cells in Patients With Type 1 Diabetes. Diabetes, 2018, 67, 1356-1368.	0.6	61
64	Modeling Monogenic Diabetes using Human ESCs Reveals Developmental and Metabolic Deficiencies Caused by Mutations in HNF1A. Cell Stem Cell, 2019, 25, 273-289.e5.	11.1	61
65	Kinetic properties of the insulin receptor tyrosine protein kinase: Activation through an insulin-stimulated tyrosine-specific, intramolecular autophosphorylation. Archives of Biochemistry and Biophysics, 1986, 244, 102-113.	3.0	60
66	Blockade of glucagon signaling prevents or reverses diabetes onset only if residual Î²-cells persist. ELife, 2016, 5, .	6.0	60
67	The PGE2 EP3 Receptor Regulates Diet-Induced Adiposity in Male Mice. Endocrinology, 2016, 157, 220-232.	2.8	59
68	Ectonucleoside Triphosphate Diphosphohydrolase-3 Antibody Targets Adult Human Pancreatic Î² Cells for InÂVitro and InÂVivo Analysis. Cell Metabolism, 2019, 29, 745-754.e4.	16.2	59
69	Factors Influencing Quantification of In Vivo Bioluminescence Imaging: Application to Assessment of Pancreatic Islet Transplants. Molecular Imaging, 2004, 3, 333-342.	1.4	58
70	The obesity epidemic and rising diabetes incidence in a low-income racially diverse southern US cohort. PLoS ONE, 2018, 13, e0190993.	2.5	58
71	Type 1 diabetes mellitus: much progress, many opportunities. Journal of Clinical Investigation, 2021, 131, .	8.2	57
72	Optical imaging of pancreatic beta cells in living mice expressing a mouse insulin I promoter-firefly luciferase transgene. Genesis, 2005, 43, 80-86.	1.6	54

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73	Pancreatic Islet Î²-Cells Transiently Metabolize Pyruvate. Journal of Biological Chemistry, 2002, 277, 30914-30920.	3.4	51
74	The MAFB transcription factor impacts islet Î±-cell function in rodents and represents a unique signature of primate islet Î²-cells. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E91-E102.	3.5	49
75	Structural abnormalities in islets from very young children with cystic fibrosis may contribute to cystic fibrosis-related diabetes. Scientific Reports, 2017, 7, 17231.	3.3	49
76	Decreased pancreatic acinar cell number in type 1 diabetes. Diabetologia, 2020, 63, 1418-1423.	6.3	47
77	Heterozygous SOD2 Deletion Impairs Glucose-Stimulated Insulin Secretion, but Not Insulin Action, in High-Fatâ€"Fed Mice. Diabetes, 2014, 63, 3699-3710.	0.6	46
78	The Human Islet: Mini-Organ With Mega-Impact. Endocrine Reviews, 2021, 42, 605-657.	20.1	44
79	Loss of mTORC1 signaling alters pancreatic Î± cell mass and impairs glucagon secretion. Journal of Clinical Investigation, 2017, 127, 4379-4393.	8.2	44
80	Validation of luminescent source reconstruction using single-view spectrally resolved bioluminescence images. Applied Optics, 2007, 46, 2540.	2.1	42
81	Human islet T cells are highly reactive to preproinsulin in type 1 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42
82	Inactivating the permanent neonatal diabetes gene <i>Mnx1</i> switches insulin-producing Î²-cells to a Î´-like fate and reveals a facultative proliferative capacity in aged Î²-cells. Development (Cambridge), 2015, 142, 3637-3648.	2.5	41
83	Lipid Droplet Accumulation in Human Pancreatic Islets Is Dependent On Both Donor Age and Health. Diabetes, 2020, 69, 342-354.	0.6	41
84	Tacrolimus- and sirolimus-induced human Î² cell dysfunction is reversible and preventable. JCI Insight, 2020, 5, .	5.0	41
85	COVID-19 vaccine prioritisation for type 1 and type 2 diabetes. Lancet Diabetes and Endocrinology,the, 2021, 9, 140-141.	11.4	40
86	A Novel Method of Monitoring Response to Islet Transplantation: Bioluminescent Imaging of an NF-kB Transgenic Mouse Model. Transplantation, 2006, 81, 1185-1190.	1.0	36
87	Examining How the MAFB Transcription Factor Affects Islet Î²-Cell Function Postnatally. Diabetes, 2019, 68, 337-348.	0.6	36
88	Glucagon receptor inactivation leads to Î±-cell hyperplasia in zebrafish. Journal of Endocrinology, 2015, 227, 93-103.	2.6	35
89	Î²-Cell DNA Damage Response Promotes Islet Inflammation in Type 1 Diabetes. Diabetes, 2018, 67, 2305-2318.	0.6	35
90	Integrated human pseudoislet system and microfluidic platform demonstrate differences in GPCR signaling in islet cells. JCI Insight, 2020, 5, .	5.0	35

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91	Multimodal image coregistration and inducible selective cell ablation to evaluate imaging ligands. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20719-20724.	7.1	34
92	Imaging mass spectrometry enables molecular profiling of mouse and human pancreatic tissue. Diabetologia, 2019, 62, 1036-1047.	6.3	33
93	Serotonin Regulates Adult Î²-Cell Mass by Stimulating Perinatal Î²-Cell Proliferation. Diabetes, 2020, 69, 205-214.	0.6	33
94	RIPK3-mediated inflammation is a conserved Î² cell response to ER stress. Science Advances, 2020, 6, .	10.3	33
95	Replicative capacity of Î²-cells and type 1 diabetes. Journal of Autoimmunity, 2016, 71, 59-68.	6.5	32
96	GÎ±o Represses Insulin Secretion by Reducing Vesicular Docking in Pancreatic Î²-Cells. Diabetes, 2010, 59, 2522-2529.	0.6	31
97	Development of a reliable automated screening system to identify small molecules and biologics that promote human Î²-cell regeneration. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E859-E868.	3.5	31
98	Advancing Animal Models of Human Type 1 Diabetes by Engraftment of Functional Human Tissues in Immunodeficient Mice. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a007757-a007757.	6.2	30
99	In Vivo Monitoring of Pancreatic Î²-Cells in a Transgenic Mouse Model. Molecular Imaging, 2006, 5, 7290.2006.00007.	1.4	29
100	Glucagon blockade restores functional Î²-cell mass in type 1 diabetic mice and enhances function of human islets. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
101	Complementation rescue of Pdx1 null phenotype demonstrates distinct roles of proximal and distal cis-regulatory sequences in pancreatic and duodenal expression. Developmental Biology, 2006, 298, 616-631.	2.0	28
102	Rebranding asymptomatic type 1 diabetes: the case for autoimmune beta cell disorder as a pathological and diagnostic entity. Diabetologia, 2017, 60, 35-38.	6.3	28
103	Use of the Electronic Medical Record to Assess Pancreas Size in Type 1 Diabetes. PLoS ONE, 2016, 11, e0158825.	2.5	28
104	Standardized Transportation of Human Islets: An Islet Cell Resource Center Study of more than 2,000 Shipments. Cell Transplantation, 2013, 22, 1101-1111.	2.5	27
105	Proteomic exploration of pancreatic islets in mice null for the Î±2A adrenergic receptor. Journal of Molecular Endocrinology, 2005, 35, 73-88.	2.5	25
106	Humanized mice for the study of type 1 and type 2 diabetes. Annals of the New York Academy of Sciences, 2011, 1245, 55-58.	3.8	25
107	Maintenance of Hepatic Nuclear Factor 6 in Postnatal Islets Impairs Terminal Differentiation and Function of Â-Cells. Diabetes, 2006, 55, 3264-3270.	0.6	24
108	Î± Cell dysfunction in islets from nondiabetic, glutamic acid decarboxylase autoantibodyâ€“positive individuals. Journal of Clinical Investigation, 2022, 132, .	8.2	24

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109	Distinguishing the real from the hyperglycaemia: does COVID-19 induce diabetes?. Lancet Diabetes and Endocrinology,the, 2021, 9, 328-329.	11.4	23
110	Combinatorial transcription factor profiles predict mature and functional human islet Î± and Î² cells. JCI Insight, 2021, 6, .	5.0	22
111	Bioluminescence Imaging Reveals Dynamics of Beta Cell Loss in the Non-Obese Diabetic (NOD) Mouse Model. PLoS ONE, 2013, 8, e57784.	2.5	21
112	Hyperglycemia-Induced Proliferation of Adult Human Beta Cells Engrafted Into Spontaneously Diabetic Immunodeficient NOD-Rag1null IL2rÎ³null Ins2Akita Mice. Pancreas, 2011, 40, 1147-1149.	1.1	20
113	Type 1 Diabetes Prevention: A Goal Dependent on Accepting a Diagnosis of an Asymptomatic Disease. Diabetes, 2016, 65, 3233-3239.	0.6	20
114	What is a Î² cell? â€" Chapter I in the Human Islet Research Network (HIRN) review series. Molecular Metabolism, 2021, 53, 101323.	6.5	20
115	Maternal Western-style diet affects offspring islet composition and function in a non-human primate model of maternal over-nutrition. Molecular Metabolism, 2019, 25, 73-82.	6.5	19
116	Tshz1 Regulates Pancreatic Î²-Cell Maturation. Diabetes, 2015, 64, 2905-2914.	0.6	18
117	Reovirus Delays Diabetes Onset but Does Not Prevent Insulitis in Nonobese Diabetic Mice. Journal of Virology, 2006, 80, 3078-3082.	3.4	17
118	Debates in Pancreatic Beta Cell Biology: Proliferation Versus Progenitor Differentiation and Transdifferentiation in Restoring Î² Cell Mass. Frontiers in Endocrinology, 2021, 12, 722250.	3.5	17
119	In vivo monitoring of pancreatic beta-cells in a transgenic mouse model. Molecular Imaging, 2006, 5, 65-75.	1.4	17
120	G6PC2 Modulates Fasting Blood Glucose In Male Mice in Response to Stress. Endocrinology, 2016, 157, 3002-3008.	2.8	16
121	Pancreatic islet beta cell-specific deletion of G6pc2 reduces fasting blood glucose. Journal of Molecular Endocrinology, 2020, 64, 235-248.	2.5	16
122	Ascorbic acid recycling by cultured Î² cells: effects of increased glucose metabolism. Free Radical Biology and Medicine, 2004, 37, 1612-1621.	2.9	14
123	New-Onset Post-Transplant Diabetes Mellitus after Allogeneic Hematopoietic Cell Transplant Is Initiated by Insulin Resistance, Not Immunosuppressive Medications. Biology of Blood and Marrow Transplantation, 2019, 25, 1225-1231.	2.0	14
124	Coordinated interactions between endothelial cells and macrophages in the islet microenvironment promote Î² cell regeneration. Npj Regenerative Medicine, 2021, 6, 22.	5.2	14
125	Heterogeneity of Diabetes: Î²-Cells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Researchâ€™s Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Healthâ€™s National Institute of Diabetes and Digestive and Kidney Diseases. Diabetes Care, 2022, 45, 3-22.	8.6	14
126	Factor XI protein in human pancreas and kidney. Thrombosis and Haemostasis, 2008, 100, 158-160.	3.4	12

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127	Molecular Imaging of the Pancreas in Small Animal Models. Gastroenterology, 2009, 136, 407-409.	1.3	12
128	Hyperglycemic clamp-derived disposition index is negatively associated with metabolic syndrome severity in obese subjects. Metabolism: Clinical and Experimental, 2016, 65, 835-842.	3.4	12
129	Dapagliflozin Does Not Directly Affect Human Î± or Î² Cells. Endocrinology, 2020, 161, .	2.8	12
130	Coupling of glucose transport and phosphorylation inXenopus oocytes and cultured cells: Determination of the rate-limiting step. Journal of Cellular Physiology, 1993, 157, 509-518.	4.1	11
131	Generation of Islet-Like Hormone-Producing Cells In Vitro from Adult Human Pancreas. Cell Transplantation, 2005, 14, 735-748.	2.5	11
132	Current status of imaging pancreatic islets. Current Diabetes Reports, 2006, 6, 328-332.	4.2	11
133	Non-Invasive Bioluminescence Imaging of Î²-Cell Function in Obese-Hyperglycemic [ob/ob] Mice. PLoS ONE, 2014, 9, e106693.	2.5	11
134	Thiobenzothiazole-modified Hydrocortisones Display Anti-inflammatory Activity with Reduced Impact on Islet Î²-Cell Function. Journal of Biological Chemistry, 2015, 290, 13401-13416.	3.4	9
135	Development of a standardized MRI protocol for pancreas assessment in humans. PLoS ONE, 2021, 16, e0256029.	2.5	9
136	Permeability Assessment of Capsules for Islet Transplantation¹. Annals of the New York Academy of Sciences, 1997, 831, 208-216.	3.8	8
137	A Feasible Approach to Evaluate the Relative Reactivity of NHS-Ester Activated Group with Primary Amine-Derivatized DNA Analogue and Non-Derivatized Impurity. Nucleosides, Nucleotides and Nucleic Acids, 2015, 34, 69-78.	1.1	8
138	Pancreatlas: Applying an Adaptable Framework to Map the Human Pancreas in Health and Disease. Patterns, 2020, 1, 100120.	5.9	8
139	Repeatability and Reproducibility of Pancreas Volume Measurements Using MRI. Scientific Reports, 2020, 10, 4767.	3.3	8
140	Gene-Based Neurotransmitter Modulation in Cerebellar Granule Neurons. Journal of Neurochemistry, 2002, 68, 204-212.	3.9	7
141	Re-addressing the 2013 consensus guidelines for the diagnosis of insulitis in human type 1 diabetes: is change necessary?. Diabetologia, 2017, 60, 753-755.	6.3	7
142	Insulin therapy versus cell-based therapy for type 1 diabetes mellitus: what lies ahead?. Nature Clinical Practice Endocrinology and Metabolism, 2008, 4, 664-665.	2.8	5
143	Differentiation between temporary and real non-clearability of biotinylated IgG antibody by avidin in mice. Frontiers in Pharmacology, 2014, 5, 172.	3.5	5
144	A fall in portal vein insulin does not cause the alpha-cell response to mild, non-insulin-induced hypoglycemia in conscious dogs. Metabolism: Clinical and Experimental, 2003, 52, 1418-1425.	3.4	4

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145	Diabetes Referrals at a Veterans Administration Tertiary Facility: Who are the patients and why are they referred?. Diabetes Care, 2005, 28, 423-424.	8.6	4
146	Quantitative Correlation of in Vivo Properties with in Vitro Assay Results: The in Vitro Binding of a Biotinâ€"DNA Analogue Modifier with Streptavidin Predicts the in Vivo Avidin-Induced Clearability of the Analogue-Modified Antibody. Molecular Pharmaceutics, 2015, 12, 3097-3103.	4.6	3
147	Deep learning-based pancreas volume assessment in individuals with type 1 diabetes. BMC Medical Imaging, 2022, 22, 5.	2.7	3
148	Affordable Care Act Implementation: Challenges and Opportunities to Impact Patients With Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 1315-1317.	3.6	2
149	There is more than one way to reach type 2 diabetes. Nature Metabolism, 2021, 3, 894-895.	11.9	2
150	In Vivo Bioluminescence Imaging to Assess Pancreatic Islets. Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents, 2004, 4, 339-347.	0.2	2
151	Research digest: pioneering an oral GLP-1 receptor agonist. Lancet Diabetes and Endocrinology,the, 2019, 7, 897.	11.4	1
152	Microvessels enhance vascularization and function of transplanted insulin-producing cells. Cell Metabolism, 2021, 33, 2103-2105.	16.2	1
153	Metabolic Complications Precede Alloreactivity and are Characterized by Changes in Th1/Th17 Immunity. Biology of Blood and Marrow Transplantation, 2018, 24, S254-S255.	2.0	0
154	Determinants of glucose tolerance in inbred mouse strains. FASEB Journal, 2007, 21, A829.	0.5	0
155	Recent Efforts to Develop Imaging Methods and β -Cell-Specific Contrast Agents for Non-Invasive in vivo Assessment of β-Cell Mass. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery, 2009, 3, 157-161.	0.6	0
156	Integrated Analysis of the Pancreas and Islets Reveals Unexpected Findings in Human Male With Type 1 Diabetes. Journal of the Endocrine Society, 2021, 5, bvab162.	0.2	0