James D Johnson

List of Publications by Citations

159 papers	7,069 citations	45 h-index	80 g-index
172 ext. papers	8,270 ext. citations	6.6 avg, IF	5.8 L-index

#	Paper	IF	Citations
159	Reversal of diabetes with insulin-producing cells derived in vitro from human pluripotent stem cells. *Nature Biotechnology*, **2014**, 32, 1121-33	44.5	919
158	Hyperinsulinemia drives diet-induced obesity independently of brain insulin production. *Cell Metabolism*, **2012**, 16, 723-37	24.6	325
157	Beta-cell ABCA1 influences insulin secretion, glucose homeostasis and response to thiazolidinedione treatment. *Nature Medicine*, **2007**, 13, 340-7	50.5	315
156	Increased islet apoptosis in Pdx1+/ mice. *Journal of Clinical Investigation*, **2003**, 111, 1147-1160	15.9	263
155	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet cells. *Journal of Clinical Investigation*, **2004**, 114, 928-936	15.9	161
154	Insulin protects islets from apoptosis via Pdx1 and specific changes in the human islet proteome. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19575-80	11.5	159
153	Increased islet apoptosis in Pdx1+/- mice. *Journal of Clinical Investigation*, **2003**, 111, 1147-60	15.9	156
152	Roles of IP3R and RyR Ca2+ channels in endoplasmic reticulum stress and beta-cell death. *Diabetes*, **2009**, 58, 422-32	0.9	152
151	Effects of palmitate on ER and cytosolic Ca2+ homeostasis in beta-cells. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 296, E690-701	6	150
150	Different effects of FK506, rapamycin, and mycophenolate mofetil on glucose-stimulated insulin release and apoptosis in human islets. *Cell Transplantation*, **2009**, 18, 833-45	4	126
149	Nicotinic acid-adenine dinucleotide phosphate-sensitive calcium stores initiate insulin signaling in human beta cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 14566-71	11.5	123
148	A multi-year analysis of islet transplantation compared with intensive medical therapy on progression of complications in type 1 diabetes. *Transplantation*, **2008**, 86, 1762-6	1.8	122
147	Reduced Insulin Production Relieves Endoplasmic Reticulum Stress and Induces Cell Proliferation. *Cell Metabolism*, **2016**, 23, 179-93	24.6	120
146	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet beta cells. *Journal of Clinical Investigation*, **2004**, 114, 928-36	15.9	119
145	Carboxypeptidase E mediates palmitate-induced beta-cell ER stress and apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8452-7	11.5	115
144	RyR2 and calpain-10 delineate a novel apoptosis pathway in pancreatic islets. *Journal of Biological Chemistry*, **2004**, 279, 24794-802	5.4	109
143	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. *Stem Cell Research*, **2014**, 12, 194-208	1.6	108

142	Autophagy regulates pancreatic beta cell death in response to Pdx1 deficiency and nutrient deprivation. *Journal of Biological Chemistry*, **2009**, 284, 27664-73	5.4	94
141	Loss of both ABCA1 and ABCG1 results in increased disturbances in islet sterol homeostasis, inflammation, and impaired Ecell function. *Diabetes*, **2012**, 61, 659-64	0.9	85
140	Improving function and survival of pancreatic islets by endogenous production of glucagon-like peptide 1 (GLP-1). *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 13468-73	11.5	83
139	A causal role for hyperinsulinemia in obesity. *Journal of Endocrinology*, **2017**, 232, R173-R183	4.7	78
138	Signal transduction in multifactorial neuroendocrine control of gonadotropin secretion and synthesis in teleosts-studies on the goldfish model. *General and Comparative Endocrinology*, **2009**, 161, 42-52	3	77
137	Insulin stimulates primary beta-cell proliferation via Raf-1 kinase. *Endocrinology*, **2008**, 149, 2251-60	4.8	77
136	Islet cholesterol accumulation due to loss of ABCA1 leads to impaired exocytosis of insulin granules. *Diabetes*, **2011**, 60, 3186-96	0.9	76
135	Notch signalling suppresses apoptosis in adult human and mouse pancreatic islet cells. *Diabetologia* , **2007**, 50, 2504-15	10.3	76
134	Reduced Circulating Insulin Enhances Insulin Sensitivity in Old Mice and Extends Lifespan. *Cell Reports*, **2017**, 20, 451-463	10.6	74
133	Signal transduction mechanisms mediating secretion in goldfish gonadotropes and somatotropes. *Biochemistry and Cell Biology*, **2000**, 78, 139-153	3.6	74
132	Reduced expression of the insulin receptor in mouse insulinoma (MIN6) cells reveals multiple roles of insulin signaling in gene expression, proliferation, insulin content, and secretion. *Journal of Biological Chemistry*, **2005**, 280, 4992-5003	5.4	71
131	Ryanodine receptors in human pancreatic beta cells: localization and effects on insulin secretion. *FASEB Journal*, **2004**, 18, 878-80	0.9	70
130	Improved human pancreatic islet isolation for a prospective cohort study of islet transplantation vs best medical therapy in type 1 diabetes mellitus. *Archives of Surgery*, **2005**, 140, 735-44		66
129	Maturation of adult beta-cells revealed using a Pdx1/insulin dual-reporter lentivirus. *Endocrinology*, **2009**, 150, 1627-35	4.8	56
128	AMP-activated protein kinase confers protection against TNF-{alpha}-induced cardiac cell death. *Cardiovascular Research*, **2009**, 84, 42-53	9.9	55
127	Maintenance of Ecell maturity and plasticity in the adult pancreas: developmental biology concepts in adult physiology. *Diabetes*, **2012**, 61, 1365-71	0.9	55
126	Suppression of hyperinsulinaemia in growing female mice provides long-term protection against obesity. *Diabetologia*, **2015**, 58, 2392-402	10.3	54
125	Cardiomyocyte ATP production, metabolic flexibility, and survival require calcium flux through cardiac ryanodine receptors in vivo. *Journal of Biological Chemistry*, **2013**, 288, 18975-86	5.4	54

124	Pancreatic cell immobilization in alginate beads produced by emulsion and internal gelation. *Biotechnology and Bioengineering*, **2011**, 108, 424-34	4.9	52
123	Mechanisms of pancreatic beta-cell apoptosis in diabetes and its therapies. *Advances in Experimental Medicine and Biology*, **2010**, 654, 447-62	3.6	52
122	Bcl-2 and Bcl-xL suppress glucose signaling in pancreatic β-cells. *Diabetes*, **2013**, 62, 170-82	0.9	48
121	Paracrine signalling loops in adult human and mouse pancreatic islets: netrins modulate beta cell apoptosis signalling via dependence receptors. *Diabetologia*, **2011**, 54, 828-42	10.3	48
120	Mild Suppression of Hyperinsulinemia to Treat Obesity and Insulin Resistance. *Trends in Endocrinology and Metabolism*, **2018**, 29, 389-399	8.8	46
119	The quest to make fully functional human pancreatic beta cells from embryonic stem cells: climbing a mountain in the clouds. *Diabetologia*, **2016**, 59, 2047-57	10.3	46
118	Acute effects of insulin on beta-cells from transplantable human islets. *Molecular and Cellular Endocrinology*, **2005**, 241, 88-98	4.4	46
117	Inhibition of Raf-1 alters multiple downstream pathways to induce pancreatic beta-cell apoptosis. *Journal of Biological Chemistry*, **2008**, 283, 2407-17	5.4	45
116	Glucose and endoplasmic reticulum calcium channels regulate HIF-1beta via presenilin in pancreatic beta-cells. *Journal of Biological Chemistry*, **2008**, 283, 9909-16	5.4	45
115	Suppressed insulin signaling and increased apoptosis in CD38-null islets. *Diabetes*, **2006**, 55, 2737-46	0.9	45
114	Musashi expression in β-cells coordinates insulin expression, apoptosis and proliferation in response to endoplasmic reticulum stress in diabetes. *Cell Death and Disease*, **2011**, 2, e232	9.8	43
113	Reciprocal modulation of adult beta cell maturity by activin A and follistatin. *Diabetologia*, **2010**, 53, 1680-9	10.3	42
112	Cardiac ryanodine receptors control heart rate and rhythmicity in adult mice. *Cardiovascular Research*, **2012**, 96, 372-80	9.9	41
111	Fluorescent biosensors illuminate calcium levels within defined beta-cell endosome subpopulations. *Cell Calcium*, **2015**, 57, 263-74	4	40
110	Two endogenous gonadotropin-releasing hormones generate dissimilar Ca(2+) signals in identified goldfish gonadotropes. *General and Comparative Endocrinology*, **1999**, 116, 178-91	3	40
109	ATP-citrate lyase reduction mediates palmitate-induced apoptosis in pancreatic beta cells. *Journal of Biological Chemistry*, **2010**, 285, 32606-15	5.4	39
108	Pacap stimulation of gonadotropin-II secretion in goldfish pituitary cells: mechanisms of action and interaction with gonadotropin releasing hormone signalling. *Journal of Neuroendocrinology*, **2001**, 13, 540-50	3.8	38
107	Function- and agonist-specific Ca2+signalling: The requirement for and mechanism of spatial and temporal complexity in Ca2+signals. *Biochemistry and Cell Biology*, **2000**, 78, 217-240	3.6	38

106	Acute insulin signaling in pancreatic beta-cells is mediated by multiple Raf-1 dependent pathways. *Endocrinology*, **2010**, 151, 502-12	4.8	37
105	The carbohydrate-insulin model: a physiological perspective on the obesity pandemic. *American Journal of Clinical Nutrition*, **2021**,	7	37
104	14-3-3 coordinates adipogenesis of visceral fat. *Nature Communications*, **2015**, 6, 7671	17.4	36
103	Intraislet SLIT-ROBO signaling is required for beta-cell survival and potentiates insulin secretion. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16480-5	11.5	36
102	Glucose-induced endothelial heparanase secretion requires cortical and stress actin reorganization. *Cardiovascular Research*, **2010**, 87, 127-36	9.9	35
101	Caloric Restriction Paradoxically Increases Adiposity in Mice With Genetically Reduced Insulin. *Endocrinology*, **2016**, 157, 2724-34	4.8	35
100	Autocrine motility factor/phosphoglucose isomerase regulates ER stress and cell death through control of ER calcium release. *Cell Death and Differentiation*, **2011**, 18, 1057-70	12.7	34
99	Beta-cell hubs maintain Ca oscillations in human and mouse islet simulations. *Islets*, **2018**, 10, 151-167	2	33
98	Pancreatic cell Raf-1 is required for glucose tolerance, insulin secretion, and insulin 2 transcription. *FASEB Journal*, **2011**, 25, 3884-95	0.9	33
97	Voltage-gated Ca(2+) influx and insulin secretion in human and mouse beta-cells are impaired by the mitochondrial Na(+)/Ca(2+) exchange inhibitor CGP-37157. *European Journal of Pharmacology*, **2007**, 576, 18-25	5.3	33
96	Endogenous Hyperinsulinemia Contributes to Pancreatic Cancer Development. *Cell Metabolism*, **2019**, 30, 403-404	24.6	32
95	Hyperglycemia-induced secretion of endothelial heparanase stimulates a vascular endothelial growth factor autocrine network in cardiomyocytes that promotes recruitment of lipoprotein lipase. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 2830-8	9.4	31
94	Novel, thapsigargin-insensitive intracellular Ca(2+) stores control growth hormone release from goldfish pituitary cells. *Molecular and Cellular Endocrinology*, **2000**, 165, 139-50	4.4	31
93	14-3-3 proteins are essential signalling hubs for beta cell survival. *Diabetologia*, **2013**, 56, 825-37	10.3	29
92	Ontogeny of ghrelin, obestatin, preproghrelin, and prohormone convertases in rat pancreas and stomach. *Pediatric Research*, **2009**, 65, 39-44	3.2	29
91	Control of pancreatic beta-cell fate by insulin signaling: The sweet spot hypothesis. *Cell Cycle*, **2008**, 7, 1343-7	4.7	28
90	Role of the TLR signaling molecule TRIF in cell function and glucose homeostasis. *Islets*, **2010**, 2, 104-11	2	27
89	Agonist-specific and sexual stage-dependent inhibition of gonadotropin-releasing hormone-stimulated gonadotropin and growth hormone release by ryanodine: relationship to sexual stage-dependent caffeine-sensitive hormone release. *Journal of Neuroendocrinology*, **2002**, 14, 144-55	3.8	27

88	Agonist-specific Ca2+ signaling systems, composed of multiple intracellular Ca2+ stores, regulate gonadotropin secretion. *Molecular and Cellular Endocrinology*, **2000**, 170, 15-29	4.4	27
87	Inter-domain tagging implicates caveolin-1 in insulin receptor trafficking and Erk signaling bias in pancreatic beta-cells. *Molecular Metabolism*, **2016**, 5, 366-378	8.8	27
86	Ubiquitin C-terminal hydrolase L1 is required for pancreatic beta cell survival and function in lipotoxic conditions. *Diabetologia*, **2012**, 55, 128-40	10.3	25
85	MATHEMATICAL MODELS OF SUBCUTANEOUS INJECTION OF INSULIN ANALOGUES: A MINI-REVIEW. *Discrete and Continuous Dynamical Systems - Series B*, **2009**, 12, 401-414	1.3	25
84	Suppressing hyperinsulinemia prevents obesity but causes rapid onset of diabetes in leptin-deficient mice. *Molecular Metabolism*, **2016**, 5, 1103-1112	8.8	25
83	Reducing insulin via conditional partial gene ablation in adults reverses diet-induced weight gain. *FASEB Journal*, **2018**, 32, 1196-1206	0.9	25
82	Leptin deficiency in rats results in hyperinsulinemia and impaired glucose homeostasis. *Endocrinology*, **2014**, 155, 1268-79	4.8	24
81	Multi-parameter single-cell kinetic analysis reveals multiple modes of cell death in primary pancreatic □cells. *Journal of Cell Science*, **2013**, 126, 4286-95	5.3	24
80	Kinetics and genomic profiling of adult human and mouse □cell maturation. *Islets*, **2011**, 3, 175-87	2	24
79	Transgenic overexpression of active calcineurin in beta-cells results in decreased beta-cell mass and hyperglycemia. *PLoS ONE*, **2010**, 5, e11969	3.7	24
78	Fatty acid-induced nuclear translocation of heparanase uncouples glucose metabolism in endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 406-14	9.4	23
77	Is dynamic autocrine insulin signaling possible? A mathematical model predicts picomolar concentrations of extracellular monomeric insulin within human pancreatic islets. *PLoS ONE*, **2013**, 8, e64860	3.7	22
76	Rheb activates protein synthesis and growth in adult rat ventricular cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2008**, 45, 812-20	5.8	22
75	Effects of insulin on human pancreatic cancer progression modeled in vitro. *BMC Cancer*, **2014**, 14, 814	4.8	21
74	Function-specific calcium stores selectively regulate growth hormone secretion, storage, and mRNA level. *American Journal of Physiology - Endocrinology and Metabolism*, **2002**, 282, E810-9	6	21
73	Multiparameter screening reveals a role for Na+ channels in cytokine-induced □cell death. *Molecular Endocrinology*, **2014**, 28, 406-17		20
72	Generation and characterization of a mouse model harboring the exon-3 deletion in the cardiac ryanodine receptor. *PLoS ONE*, **2014**, 9, e95615	3.7	17
71	MISC-1/OGC links mitochondrial metabolism, apoptosis and insulin secretion. *PLoS ONE*, **2011**, 6, e17827	3.7	17

70	An odyssey of islet transplantation for therapy of type 1 diabetes. *World Journal of Surgery*, **2007**, 31, 1569-76	3.3	16
69	Mechanisms of action of pituitary adenylate cyclase-activating polypeptide (PACAP) on growth hormone release from dispersed goldfish pituitary cells. *Fish Physiology and Biochemistry*, **2000**, 23, 201-214	2.7	16
68	A gonadotropin-releasing hormone insensitive, thapsigargin-sensitive Ca2+ store reduces basal gonadotropin exocytosis and gene expression: comparison with agonist-sensitive Ca2+ stores. *Journal of Neuroendocrinology*, **2003**, 15, 204-14	3.8	15
67	Specific loss of adipocyte CD248 improves metabolic health via reduced white adipose tissue hypoxia, fibrosis and inflammation. *EBioMedicine*, **2019**, 44, 489-501	8.8	14
66	Statistical approaches and software for clustering islet cell functional heterogeneity. *Islets*, **2016**, 8, 48-56	2	14
65	Calcium buffering activity of mitochondria controls basal growth hormone secretion and modulates specific neuropeptide signaling. *Cell Calcium*, **2005**, 37, 573-81	4	14
64	Hyperinsulinemia in Obesity, Inflammation, and Cancer. *Diabetes and Metabolism Journal*, **2021**, 45, 285-311	5	14
63	Cardiac Ryanodine Receptor (Ryr2)-mediated Calcium Signals Specifically Promote Glucose Oxidation via Pyruvate Dehydrogenase. *Journal of Biological Chemistry*, **2016**, 291, 23490-23505	5.4	13
62	High-content screening identifies a role for Na(+) channels in insulin production. *Royal Society Open Science*, **2015**, 2, 150306	3.3	13
61	Hyper-Variability in Circulating Insulin, High Fat Feeding Outcomes, and Effects of Reducing Ins2 Dosage in Male Ins1-Null Mice in a Specific Pathogen-Free Facility. *PLoS ONE*, **2016**, 11, e0153280	3.7	13
60	A practical guide to genetic engineering of pancreatic β cells in vivo: getting a grip on RIP and MIP. *Islets*, **2014**, 6, e944439	2	12
59	Proteomic identification of carboxypeptidase E connects lipid-induced beta-cell apoptosis and dysfunction in type 2 diabetes. *Cell Cycle*, **2009**, 8, 38-42	4.7	12
58	Differential regulation and localization of carboxypeptidase D and carboxypeptidase E in human and mouse β cells. *Islets*, **2011**, 3, 155-65	2	12
57	Caffeine-stimulated GTH-II release involves Ca(2+) stores with novel properties. *American Journal of Physiology - Cell Physiology*, **2002**, 282, C635-45	5.4	12
56	Ywhaz/14-3-3ζ Deletion Improves Glucose Tolerance Through a GLP-1-Dependent Mechanism. *Endocrinology*, **2016**, 157, 2649-59	4.8	12
55	A feature analysis of lower solubility proteins in three eukaryotic systems. *Journal of Proteomics*, **2015**, 118, 21-38	3.9	11
54	Nanospaces between endoplasmic reticulum and mitochondria as control centres of pancreatic β cell metabolism and survival. *Protoplasma*, **2012**, 249 Suppl 1, S49-58	3.4	11
53	Heparanase Overexpression Induces Glucagon Resistance and Protects Animals From Chemically Induced Diabetes. *Diabetes*, **2017**, 66, 45-57	0.9	11

52	A multi-parameter, high-content, high-throughput screening platform to identify natural compounds that modulate insulin and Pdx1 expression. *PLoS ONE*, **2010**, 5, e12958	3.7	11
51	Therapeutic opportunities for pancreatic Ecell ER stress in diabetes mellitus. *Nature Reviews Endocrinology*, **2021**, 17, 455-467	15.2	11
50	Loss of sirtuin 4 leads to elevated glucose- and leucine-stimulated insulin levels and accelerated age-induced insulin resistance in multiple murine genetic backgrounds. *Journal of Inherited Metabolic Disease*, **2018**, 41, 59-72	5.4	10
49	Differential Effects of Voclosporin and Tacrolimus on Insulin Secretion From Human Islets. *Endocrinology*, **2020**, 161,	4.8	10
48	Early overnutrition reduces Pdx1 expression and induces Ecell failure in Swiss Webster mice. *Scientific Reports*, **2019**, 9, 3619	4.9	9
47	A live-cell, high-content imaging survey of 206 endogenous factors across five stress conditions reveals context-dependent survival effects in mouse primary beta cells. *Diabetologia*, **2015**, 58, 1239-49	10.3	9
46	Metabolic effects of short-term caloric restriction in mice with reduced insulin gene dosage. *Journal of Endocrinology*, **2018**, 237, 59-71	4.7	9
45	Insulin synthesized in the paraventricular nucleus of the hypothalamus regulates pituitary growth hormone production. *JCI Insight*, **2020**, 5,	9.9	9
44	Purified human pancreatic duct cell culture conditions defined by serum-free high-content growth factor screening. *PLoS ONE*, **2012**, 7, e33999	3.7	8
43	Testing the carbohydrate-insulin model in mice: The importance of distinguishing primary hyperinsulinemia from insulin resistance and metabolic dysfunction. *Molecular Metabolism*, **2020**, 35, 100960	8.8	7
42	Carbamazepine, a beta-cell protecting drug, reduces type 1 diabetes incidence in NOD mice. *Scientific Reports*, **2018**, 8, 4588	4.9	7
41	Modulation of gonadotropin II release by K+ channel blockers in goldfish gonadotropes: a novel stimulatory action of 4-aminopyridine. *Journal of Neuroendocrinology*, **2001**, 13, 951-8	3.8	7
40	Caffeine stores and dopamine differentially require Ca(2+) channels in goldfish somatotropes. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2001**, 280, R494-503	3.2	7
39	Function- and agonist-specific Ca2+ signalling: The requirement for and mechanism of spatial and temporal complexity in Ca2+ signals. *Biochemistry and Cell Biology*, **2000**, 78, 217-240	3.6	7
38	Impaired Ca(2+) signaling in Ecells lacking leptin receptors by Cre-loxP recombination. *PLoS ONE*, **2013**, 8, e71075	3.7	7
37	Pancreatic and duodenal homeobox-1 (PDX1) contributes to Ecell mass expansion and proliferation induced by Akt/PKB pathway. *Islets*, **2020**, 12, 32-40	2	7
36	Altered pancreatic growth and insulin secretion in WSB/EiJ mice. *PLoS ONE*, **2014**, 9, e88352	3.7	6
35	Pancreatic Beta-cell Apoptosis in Maturity Onset Diabetes of the Young. *Canadian Journal of Diabetes*, **2007**, 31, 67-74	2.1	6

34	Folding mutations suppress early beta-cell proliferation. *ELife*, **2018**, 7,	8.9	6
33	Ins2 gene bursting activity defines a mature β cell state		6
32	On the causal relationships between hyperinsulinaemia, insulin resistance, obesity and dysglycaemia in type 2 diabetes. *Diabetologia*, **2021**, 64, 2138-2146	10.3	6
31	14-3-3ζ A numbers game in adipocyte function?. *Adipocyte*, **2016**, 5, 232-7	3.2	5
30	Specialized Hub Beta Cells Trade Maximal Insulin Production for Perfect Timing. *Cell Metabolism*, **2016**, 24, 371-373	24.6	4
29	Modulation of β cell fate and function by TGF β ligands: a superfamily with many powers. *Endocrinology*, **2013**, 154, 3965-9	4.8	4
28	Impaired insulin secretion in transgenic mice over-expressing calpastatin in pancreatic β cells. *Islets*, **2009**, 1, 242-8	2	4
27	Human and mouse muscle transcriptomic analyses identify insulin receptor mRNA downregulation in hyperinsulinemia-associated insulin resistance.. *FASEB Journal*, **2022**, 36, e22088	0.9	4
26	AAV8 Ins1-Cre can produce efficient β cell recombination but requires consideration of off-target effects. *Scientific Reports*, **2020**, 10, 10518	4.9	4
25	Adipose depot-specific upregulation of Ucp1 or mitochondrial oxidative complex proteins are early consequences of genetic insulin reduction in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E529-E539	6	4
24	Neoepitopes in Type 1 Diabetes: Etiological Insights, Biomarkers and Therapeutic Targets. *Frontiers in Immunology*, **2021**, 12, 667989	8.4	4
23	AAV GCG-EGFP, a new tool to identify glucagon-secreting α cells. *Scientific Reports*, **2019**, 9, 10829	4.9	3
22	Beta-cell specific Insr deletion promotes insulin hypersecretion and improves glucose tolerance prior to global insulin resistance		3
21	A New Hypothesis for Type 1 Diabetes Risk: The At-Risk Allele at rs3842753 Associates With Increased Beta-cell INS Messenger RNA in a Meta-Analysis of Single-Cell RNA-Sequencing Data. *Canadian Journal of Diabetes*, **2021**,	2.1	3
20	PWD/PhJ mice have a genetically determined increase in nutrient-stimulated insulin secretion. *Mammalian Genome*, **2015**, 26, 131-41	3.2	2
19	Beta-cell specific Insr deletion promotes insulin hypersecretion and improves glucose tolerance prior to global insulin resistance.. *Nature Communications*, **2022**, 13, 735	17.4	2
18	Breast cancer endocrine therapy exhausts adipocyte progenitors promoting weight gain and glucose intolerance		2
17	Transcriptomic analysis of human and mouse muscle during hyperinsulinemia demonstrates insulin receptor downregulation as a mechanism for insulin resistance		2

16	Intracellular Ca2+ channels initiate physiological glucose signaling in beta cells examined in situ		2
15	Hyperinsulinemia Causes Age-Dependent Insulin Resistance and Reduces LifespanImage 10. *Canadian Journal of Diabetes*, **2016**, 40, S59-S60	2.1	2
14	A new hypothesis for type 1 diabetes risk: The at-risk allele at rs3842753 associates with increased beta cell INS mRNA in a meta-analysis of single cell RNA sequencing data		1
13	Adipose depot-specific upregulation of Ucp1 or mitochondrial oxidative complex proteins are early consequences of genetic insulin reduction in mice		1
12	Endogenous insulin contributes to pancreatic cancer development		1
11	Mechanisms of Pancreatic Cell Apoptosis in Diabetes and Its Therapies **2014**, 1-20		1
10	High Content Imaging of Barrett's-Associated High-Grade Dysplasia Cells After siRNA Library Screening Reveals Acid-Responsive Regulators of Cellular Transitions. *Cellular and Molecular Gastroenterology and Hepatology*, **2020**, 10, 601-622	7.9	1
9	Promises and pitfalls of beta cell-replacement therapies. *Nature Metabolism*, **2021**, 3, 1036-1037	14.6	1
8	Pharmacist-led therapeutic carbohydrate restriction as a treatment strategy for type 2 diabetes: the Pharm-TCR randomized controlled trial protocol. *Trials*, **2019**, 20, 781	2.8	1
7	Reply to A Drewnowski et al, O Devinsky, D A Booth and E L Gibson, and D J Millward.. *American Journal of Clinical Nutrition*, **2022**, 115, 595-597	7	0
6	A randomized controlled trial of pharmacist-led therapeutic carbohydrate and energy restriction in type 2 diabetes. *Nature Communications*, **2021**, 12, 5367	17.4	0
5	Effects of hyperinsulinemia on pancreatic cancer development and the immune microenvironment revealed through single-cell transcriptomics.. *Cancer & Metabolism*, **2022**, 10, 5	5.4	0
4	Unique ER Stress Mechanisms in Cells Limit the Translation Potential of Therapies Targeting eIF2 *Endocrinology*, **2017**, 158, 1564-1566	4.8	
3	Endocrine Therapeutic Delivery **2014**, 179-205		
2	Ca2+-dependent Signal Transduction **2014**, 2, 1-68		
1	Mechanisms of Pancreatic Cell Apoptosis in Diabetes and Its Therapies **2015**, 873-894		