

# James D Johnson

## List of Publications by Year in Descending Order

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

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	Beta-cell specific Insr deletion promotes insulin hypersecretion and improves glucose tolerance prior to global insulin resistance.. <i>Nature Communications</i> , <b>2022</b> , 13, 735	17.4	2
158	Human and mouse muscle transcriptomic analyses identify insulin receptor mRNA downregulation in hyperinsulinemia-associated insulin resistance.. <i>FASEB Journal</i> , <b>2022</b> , 36, e22088	0.9	4
157	Reply to A Drewnowski et al, O Devinsky, D A Booth and E L Gibson, and D J Millward.. <i>American Journal of Clinical Nutrition</i> , <b>2022</b> , 115, 595-597	7	0
156	Effects of hyperinsulinemia on pancreatic cancer development and the immune microenvironment revealed through single-cell transcriptomics.. <i>Cancer &amp; Metabolism</i> , <b>2022</b> , 10, 5	5.4	0
155	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. <i>Canadian Journal of Diabetes</i> , <b>2021</b> ,	2.1	3
154	Neopeptides in Type 1 Diabetes: Etiological Insights, Biomarkers and Therapeutic Targets. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 667989	8.4	4
153	Hyperinsulinemia in Obesity, Inflammation, and Cancer. <i>Diabetes and Metabolism Journal</i> , <b>2021</b> , 45, 285-311	3.11	14
152	Therapeutic opportunities for pancreatic $\beta$ -cell ER stress in diabetes mellitus. <i>Nature Reviews Endocrinology</i> , <b>2021</b> , 17, 455-467	15.2	11
151	On the causal relationships between hyperinsulinaemia, insulin resistance, obesity and dysglycaemia in type 2 diabetes. <i>Diabetologia</i> , <b>2021</b> , 64, 2138-2146	10.3	6
150	Promises and pitfalls of beta cell-replacement therapies. <i>Nature Metabolism</i> , <b>2021</b> , 3, 1036-1037	14.6	1
149	A randomized controlled trial of pharmacist-led therapeutic carbohydrate and energy restriction in type 2 diabetes. <i>Nature Communications</i> , <b>2021</b> , 12, 5367	17.4	0
148	The carbohydrate-insulin model: a physiological perspective on the obesity pandemic. <i>American Journal of Clinical Nutrition</i> , <b>2021</b> ,	7	37
147	Testing the carbohydrate-insulin model in mice: The importance of distinguishing primary hyperinsulinemia from insulin resistance and metabolic dysfunction. <i>Molecular Metabolism</i> , <b>2020</b> , 35, 100960	8.8	7
146	Insulin synthesized in the paraventricular nucleus of the hypothalamus regulates pituitary growth hormone production. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	9
145	High Content Imaging of Barrett's-Associated High-Grade Dysplasia Cells After siRNA Library Screening Reveals Acid-Responsive Regulators of Cellular Transitions. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2020</b> , 10, 601-622	7.9	1
144	AAV8 Ins1-Cre can produce efficient $\beta$ -cell recombination but requires consideration of off-target effects. <i>Scientific Reports</i> , <b>2020</b> , 10, 10518	4.9	4
143	Adipose depot-specific upregulation of Ucp1 or mitochondrial oxidative complex proteins are early consequences of genetic insulin reduction in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 319, E529-E539	6	4

142	Pancreatic and duodenal homeobox-1 (PDX1) contributes to $\beta$ cell mass expansion and proliferation induced by Akt/PKB pathway. <i>Islets</i> , <b>2020</b> , 12, 32-40	2	7
141	Differential Effects of Voclosporin and Tacrolimus on Insulin Secretion From Human Islets. <i>Endocrinology</i> , <b>2020</b> , 161,	4.8	10
140	Specific loss of adipocyte CD248 improves metabolic health via reduced white adipose tissue hypoxia, fibrosis and inflammation. <i>EBioMedicine</i> , <b>2019</b> , 44, 489-501	8.8	14
139	Early overnutrition reduces Pdx1 expression and induces $\beta$ cell failure in Swiss Webster mice. <i>Scientific Reports</i> , <b>2019</b> , 9, 3619	4.9	9
138	Endogenous Hyperinsulinemia Contributes to Pancreatic Cancer Development. <i>Cell Metabolism</i> , <b>2019</b> , 30, 403-404	24.6	32
137	AAV GCG-EGFP, a new tool to identify glucagon-secreting $\beta$ cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 10829	4.9	3
136	Pharmacist-led therapeutic carbohydrate restriction as a treatment strategy for type 2 diabetes: the Pharm-TCR randomized controlled trial protocol. <i>Trials</i> , <b>2019</b> , 20, 781	2.8	1
135	Mild Suppression of Hyperinsulinemia to Treat Obesity and Insulin Resistance. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 389-399	8.8	46
134	Metabolic effects of short-term caloric restriction in mice with reduced insulin gene dosage. <i>Journal of Endocrinology</i> , <b>2018</b> , 237, 59-71	4.7	9
133	Carbamazepine, a beta-cell protecting drug, reduces type 1 diabetes incidence in NOD mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 4588	4.9	7
132	Loss of sirtuin 4 leads to elevated glucose- and leucine-stimulated insulin levels and accelerated age-induced insulin resistance in multiple murine genetic backgrounds. <i>Journal of Inherited Metabolic Disease</i> , <b>2018</b> , 41, 59-72	5.4	10
131	Beta-cell hubs maintain Ca oscillations in human and mouse islet simulations. <i>Islets</i> , <b>2018</b> , 10, 151-167	2	33
130	Folding mutations suppress early beta-cell proliferation. <i>ELife</i> , <b>2018</b> , 7,	8.9	6
129	Reducing insulin via conditional partial gene ablation in adults reverses diet-induced weight gain. <i>FASEB Journal</i> , <b>2018</b> , 32, 1196-1206	0.9	25
128	A causal role for hyperinsulinemia in obesity. <i>Journal of Endocrinology</i> , <b>2017</b> , 232, R173-R183	4.7	78
127	Unique ER Stress Mechanisms in $\beta$ Cells Limit the Translation Potential of Therapies Targeting eIF2 $\beta$ . <i>Endocrinology</i> , <b>2017</b> , 158, 1564-1566	4.8	
126	Reduced Circulating Insulin Enhances Insulin Sensitivity in Old Mice and Extends Lifespan. <i>Cell Reports</i> , <b>2017</b> , 20, 451-463	10.6	74
125	Heparanase Overexpression Induces Glucagon Resistance and Protects Animals From Chemically Induced Diabetes. <i>Diabetes</i> , <b>2017</b> , 66, 45-57	0.9	11

124	The quest to make fully functional human pancreatic beta cells from embryonic stem cells: climbing a mountain in the clouds. <i>Diabetologia</i> , <b>2016</b> , 59, 2047-57	10.3	46
123	Specialized Hub Beta Cells Trade Maximal Insulin Production for Perfect Timing. <i>Cell Metabolism</i> , <b>2016</b> , 24, 371-373	24.6	4
122	Cardiac Ryanodine Receptor (Ryr2)-mediated Calcium Signals Specifically Promote Glucose Oxidation via Pyruvate Dehydrogenase. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 23490-23505	5.4	13
121	14-3-3 $\sigma$ A numbers game in adipocyte function?. <i>Adipocyte</i> , <b>2016</b> , 5, 232-7	3.2	5
120	Statistical approaches and software for clustering islet cell functional heterogeneity. <i>Islets</i> , <b>2016</b> , 8, 48-56		14
119	Reduced Insulin Production Relieves Endoplasmic Reticulum Stress and Induces $\beta$ Cell Proliferation. <i>Cell Metabolism</i> , <b>2016</b> , 23, 179-93	24.6	120
118	Ywhaz/14-3-3 $\Delta$ Deletion Improves Glucose Tolerance Through a GLP-1-Dependent Mechanism. <i>Endocrinology</i> , <b>2016</b> , 157, 2649-59	4.8	12
117	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. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153280	3.7	13
116	Caloric Restriction Paradoxically Increases Adiposity in Mice With Genetically Reduced Insulin. <i>Endocrinology</i> , <b>2016</b> , 157, 2724-34	4.8	35
115	Inter-domain tagging implicates caveolin-1 in insulin receptor trafficking and Erk signaling bias in pancreatic beta-cells. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 366-378	8.8	27
114	Hyperinsulinemia Causes Age-Dependent Insulin Resistance and Reduces Lifespan Image 10. <i>Canadian Journal of Diabetes</i> , <b>2016</b> , 40, S59-S60	2.1	2
113	Suppressing hyperinsulinemia prevents obesity but causes rapid onset of diabetes in leptin-deficient mice. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 1103-1112	8.8	25
112	PWD/PhJ mice have a genetically determined increase in nutrient-stimulated insulin secretion. <i>Mammalian Genome</i> , <b>2015</b> , 26, 131-41	3.2	2
111	A feature analysis of lower solubility proteins in three eukaryotic systems. <i>Journal of Proteomics</i> , <b>2015</b> , 118, 21-38	3.9	11
110	Suppression of hyperinsulinaemia in growing female mice provides long-term protection against obesity. <i>Diabetologia</i> , <b>2015</b> , 58, 2392-402	10.3	54
109	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. <i>Diabetologia</i> , <b>2015</b> , 58, 1239-49	10.3	9
108	14-3-3 $\zeta$ coordinates adipogenesis of visceral fat. <i>Nature Communications</i> , <b>2015</b> , 6, 7671	17.4	36
107	Fluorescent biosensors illuminate calcium levels within defined beta-cell endosome subpopulations. <i>Cell Calcium</i> , <b>2015</b> , 57, 263-74	4	40

106	High-content screening identifies a role for Na(+) channels in insulin production. <i>Royal Society Open Science</i> , <b>2015</b> , 2, 150306	3.3	13
105	Mechanisms of Pancreatic $\beta$ Cell Apoptosis in Diabetes and Its Therapies <b>2015</b> , 873-894		
104	Reversal of diabetes with insulin-producing cells derived in vitro from human pluripotent stem cells. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 1121-33	44.5	919
103	Leptin deficiency in rats results in hyperinsulinemia and impaired glucose homeostasis. <i>Endocrinology</i> , <b>2014</b> , 155, 1268-79	4.8	24
102	Endocrine Therapeutic Delivery <b>2014</b> , 179-205		
101	Altered pancreatic growth and insulin secretion in WSB/EiJ mice. <i>PLoS ONE</i> , <b>2014</b> , 9, e88352	3.7	6
100	Generation and characterization of a mouse model harboring the exon-3 deletion in the cardiac ryanodine receptor. <i>PLoS ONE</i> , <b>2014</b> , 9, e95615	3.7	17
99	Ca <sup>2+</sup> -dependent Signal Transduction <b>2014</b> , 2, 1-68		
98	Multiparameter screening reveals a role for Na <sup>+</sup> channels in cytokine-induced $\beta$ cell death. <i>Molecular Endocrinology</i> , <b>2014</b> , 28, 406-17		20
97	A practical guide to genetic engineering of pancreatic $\beta$ cells in vivo: getting a grip on RIP and MIP. <i>Islets</i> , <b>2014</b> , 6, e944439	2	12
96	Effects of insulin on human pancreatic cancer progression modeled in vitro. <i>BMC Cancer</i> , <b>2014</b> , 14, 814	4.8	21
95	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. <i>Stem Cell Research</i> , <b>2014</b> , 12, 194-208	1.6	108
94	Mechanisms of Pancreatic $\beta$ Cell Apoptosis in Diabetes and Its Therapies <b>2014</b> , 1-20		1
93	14-3-3 proteins are essential signalling hubs for beta cell survival. <i>Diabetologia</i> , <b>2013</b> , 56, 825-37	10.3	29
92	Bcl-2 and Bcl-xL suppress glucose signaling in pancreatic $\beta$ cells. <i>Diabetes</i> , <b>2013</b> , 62, 170-82	0.9	48
91	Modulation of $\beta$ cell fate and function by TGF $\beta$ ligands: a superfamily with many powers. <i>Endocrinology</i> , <b>2013</b> , 154, 3965-9	4.8	4
90	Cardiomyocyte ATP production, metabolic flexibility, and survival require calcium flux through cardiac ryanodine receptors in vivo. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 18975-86	5.4	54
89	Multi-parameter single-cell kinetic analysis reveals multiple modes of cell death in primary pancreatic $\beta$ cells. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 4286-95	5.3	24

88	Hyperglycemia-induced secretion of endothelial heparanase stimulates a vascular endothelial growth factor autocrine network in cardiomyocytes that promotes recruitment of lipoprotein lipase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2013</b> , 33, 2830-8	9.4	31
87	Intra-islet SLIT-ROBO signaling is required for beta-cell survival and potentiates insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16480-5	11.5	36
86	Is dynamic autocrine insulin signaling possible? A mathematical model predicts picomolar concentrations of extracellular monomeric insulin within human pancreatic islets. <i>PLoS ONE</i> , <b>2013</b> , 8, e64860	3.7	22
85	Impaired Ca(2+) signaling in $\beta$ cells lacking leptin receptors by Cre-loxP recombination. <i>PLoS ONE</i> , <b>2013</b> , 8, e71075	3.7	7
84	Ubiquitin C-terminal hydrolase L1 is required for pancreatic beta cell survival and function in lipotoxic conditions. <i>Diabetologia</i> , <b>2012</b> , 55, 128-40	10.3	25
83	Nanospaces between endoplasmic reticulum and mitochondria as control centres of pancreatic $\beta$ cell metabolism and survival. <i>Protoplasma</i> , <b>2012</b> , 249 Suppl 1, S49-58	3.4	11
82	Hyperinsulinemia drives diet-induced obesity independently of brain insulin production. <i>Cell Metabolism</i> , <b>2012</b> , 16, 723-37	24.6	325
81	Loss of both ABCA1 and ABCG1 results in increased disturbances in islet sterol homeostasis, inflammation, and impaired $\beta$ cell function. <i>Diabetes</i> , <b>2012</b> , 61, 659-64	0.9	85
80	Maintenance of $\beta$ cell maturity and plasticity in the adult pancreas: developmental biology concepts in adult physiology. <i>Diabetes</i> , <b>2012</b> , 61, 1365-71	0.9	55
79	Fatty acid-induced nuclear translocation of heparanase uncouples glucose metabolism in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 406-14	9.4	23
78	Cardiac ryanodine receptors control heart rate and rhythmicity in adult mice. <i>Cardiovascular Research</i> , <b>2012</b> , 96, 372-80	9.9	41
77	Purified human pancreatic duct cell culture conditions defined by serum-free high-content growth factor screening. <i>PLoS ONE</i> , <b>2012</b> , 7, e33999	3.7	8
76	Islet cholesterol accumulation due to loss of ABCA1 leads to impaired exocytosis of insulin granules. <i>Diabetes</i> , <b>2011</b> , 60, 3186-96	0.9	76
75	Musashi expression in $\beta$ cells coordinates insulin expression, apoptosis and proliferation in response to endoplasmic reticulum stress in diabetes. <i>Cell Death and Disease</i> , <b>2011</b> , 2, e232	9.8	43
74	Autocrine motility factor/phosphoglucose isomerase regulates ER stress and cell death through control of ER calcium release. <i>Cell Death and Differentiation</i> , <b>2011</b> , 18, 1057-70	12.7	34
73	Paracrine signalling loops in adult human and mouse pancreatic islets: netrins modulate beta cell apoptosis signalling via dependence receptors. <i>Diabetologia</i> , <b>2011</b> , 54, 828-42	10.3	48
72	Pancreatic cell immobilization in alginate beads produced by emulsion and internal gelation. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 424-34	4.9	52
71	Pancreatic $\beta$ cell Raf-1 is required for glucose tolerance, insulin secretion, and insulin 2 transcription. <i>FASEB Journal</i> , <b>2011</b> , 25, 3884-95	0.9	33

70	Kinetics and genomic profiling of adult human and mouse $\beta$ cell maturation. <i>Islets</i> , <b>2011</b> , 3, 175-87	2	24
69	Differential regulation and localization of carboxypeptidase D and carboxypeptidase E in human and mouse $\beta$ cells. <i>Islets</i> , <b>2011</b> , 3, 155-65	2	12
68	MISC-1/OGC links mitochondrial metabolism, apoptosis and insulin secretion. <i>PLoS ONE</i> , <b>2011</b> , 6, e178273.	3.7	17
67	A multi-parameter, high-content, high-throughput screening platform to identify natural compounds that modulate insulin and Pdx1 expression. <i>PLoS ONE</i> , <b>2010</b> , 5, e12958	3.7	11
66	ATP-citrate lyase reduction mediates palmitate-induced apoptosis in pancreatic beta cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 32606-15	5.4	39
65	Glucose-induced endothelial heparanase secretion requires cortical and stress actin reorganization. <i>Cardiovascular Research</i> , <b>2010</b> , 87, 127-36	9.9	35
64	Acute insulin signaling in pancreatic beta-cells is mediated by multiple Raf-1 dependent pathways. <i>Endocrinology</i> , <b>2010</b> , 151, 502-12	4.8	37
63	Role of the TLR signaling molecule TRIF in $\beta$ cell function and glucose homeostasis. <i>Islets</i> , <b>2010</b> , 2, 104-112	2.7	27
62	Mechanisms of pancreatic beta-cell apoptosis in diabetes and its therapies. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 654, 447-62	3.6	52
61	Reciprocal modulation of adult beta cell maturity by activin A and follistatin. <i>Diabetologia</i> , <b>2010</b> , 53, 1680-93	10.3	42
60	Transgenic overexpression of active calcineurin in beta-cells results in decreased beta-cell mass and hyperglycemia. <i>PLoS ONE</i> , <b>2010</b> , 5, e11969	3.7	24
59	Autophagy regulates pancreatic beta cell death in response to Pdx1 deficiency and nutrient deprivation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 27664-73	5.4	94
58	Proteomic identification of carboxypeptidase E connects lipid-induced beta-cell apoptosis and dysfunction in type 2 diabetes. <i>Cell Cycle</i> , <b>2009</b> , 8, 38-42	4.7	12
57	Impaired insulin secretion in transgenic mice over-expressing calpastatin in pancreatic $\beta$ cells. <i>Islets</i> , <b>2009</b> , 1, 242-8	2	4
56	Maturation of adult beta-cells revealed using a Pdx1/insulin dual-reporter lentivirus. <i>Endocrinology</i> , <b>2009</b> , 150, 1627-35	4.8	56
55	AMP-activated protein kinase confers protection against TNF- $\alpha$ -induced cardiac cell death. <i>Cardiovascular Research</i> , <b>2009</b> , 84, 42-53	9.9	55
54	Ontogeny of ghrelin, obestatin, preproghrelin, and prohormone convertases in rat pancreas and stomach. <i>Pediatric Research</i> , <b>2009</b> , 65, 39-44	3.2	29
53	Roles of IP3R and RyR Ca <sup>2+</sup> channels in endoplasmic reticulum stress and beta-cell death. <i>Diabetes</i> , <b>2009</b> , 58, 422-32	0.9	152

52	Signal transduction in multifactorial neuroendocrine control of gonadotropin secretion and synthesis in teleosts-studies on the goldfish model. <i>General and Comparative Endocrinology</i> , <b>2009</b> , 161, 42-52	3	77
51	Effects of palmitate on ER and cytosolic Ca <sup>2+</sup> homeostasis in beta-cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 296, E690-701	6	150
50	Different effects of FK506, rapamycin, and mycophenolate mofetil on glucose-stimulated insulin release and apoptosis in human islets. <i>Cell Transplantation</i> , <b>2009</b> , 18, 833-45	4	126
49	MATHEMATICAL MODELS OF SUBCUTANEOUS INJECTION OF INSULIN ANALOGUES: A MINI-REVIEW. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2009</b> , 12, 401-414	1.3	25
48	Rheb activates protein synthesis and growth in adult rat ventricular cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2008</b> , 45, 812-20	5.8	22
47	Inhibition of Raf-1 alters multiple downstream pathways to induce pancreatic beta-cell apoptosis. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 2407-17	5.4	45
46	Glucose and endoplasmic reticulum calcium channels regulate HIF-1beta via presenilin in pancreatic beta-cells. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 9909-16	5.4	45
45	Carboxypeptidase E mediates palmitate-induced beta-cell ER stress and apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8452-7	11.5	115
44	Insulin stimulates primary beta-cell proliferation via Raf-1 kinase. <i>Endocrinology</i> , <b>2008</b> , 149, 2251-60	4.8	77
43	Control of pancreatic beta-cell fate by insulin signaling: The sweet spot hypothesis. <i>Cell Cycle</i> , <b>2008</b> , 7, 1343-7	4.7	28
42	A multi-year analysis of islet transplantation compared with intensive medical therapy on progression of complications in type 1 diabetes. <i>Transplantation</i> , <b>2008</b> , 86, 1762-6	1.8	122
41	Beta-cell ABCA1 influences insulin secretion, glucose homeostasis and response to thiazolidinedione treatment. <i>Nature Medicine</i> , <b>2007</b> , 13, 340-7	50.5	315
40	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. <i>European Journal of Pharmacology</i> , <b>2007</b> , 576, 18-25	5.3	33
39	Notch signalling suppresses apoptosis in adult human and mouse pancreatic islet cells. <i>Diabetologia</i> , <b>2007</b> , 50, 2504-15	10.3	76
38	An odyssey of islet transplantation for therapy of type 1 diabetes. <i>World Journal of Surgery</i> , <b>2007</b> , 31, 1569-76	3.3	16
37	Pancreatic Beta-cell Apoptosis in Maturity Onset Diabetes of the Young. <i>Canadian Journal of Diabetes</i> , <b>2007</b> , 31, 67-74	2.1	6
36	Improving function and survival of pancreatic islets by endogenous production of glucagon-like peptide 1 (GLP-1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13468-73	11.5	83
35	Suppressed insulin signaling and increased apoptosis in CD38-null islets. <i>Diabetes</i> , <b>2006</b> , 55, 2737-46	0.9	45



34	Insulin protects islets from apoptosis via Pdx1 and specific changes in the human islet proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 19575-80	11.5	159
33	Acute effects of insulin on beta-cells from transplantable human islets. <i>Molecular and Cellular Endocrinology</i> , <b>2005</b> , 241, 88-98	4.4	46
32	Calcium buffering activity of mitochondria controls basal growth hormone secretion and modulates specific neuropeptide signaling. <i>Cell Calcium</i> , <b>2005</b> , 37, 573-81	4	14
31	Improved human pancreatic islet isolation for a prospective cohort study of islet transplantation vs best medical therapy in type 1 diabetes mellitus. <i>Archives of Surgery</i> , <b>2005</b> , 140, 735-44		66
30	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. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 4992-5003	5.4	71
29	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet $\beta$ cells. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 928-936	15.9	161
28	Ryanodine receptors in human pancreatic beta cells: localization and effects on insulin secretion. <i>FASEB Journal</i> , <b>2004</b> , 18, 878-80	0.9	70
27	RyR2 and calpain-10 delineate a novel apoptosis pathway in pancreatic islets. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 24794-802	5.4	109
26	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet beta cells. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 928-36	15.9	119
25	A gonadotropin-releasing hormone insensitive, thapsigargin-sensitive Ca <sup>2+</sup> store reduces basal gonadotropin exocytosis and gene expression: comparison with agonist-sensitive Ca <sup>2+</sup> stores. <i>Journal of Neuroendocrinology</i> , <b>2003</b> , 15, 204-14	3.8	15
24	Increased islet apoptosis in Pdx1 <sup>+/-</sup> mice. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 1147-60	15.9	156
23	Increased islet apoptosis in Pdx1 <sup>+/-</sup> mice. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 1147-1160	15.9	263
22	Function-specific calcium stores selectively regulate growth hormone secretion, storage, and mRNA level. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2002</b> , 282, E810-9	6	21
21	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. <i>Journal of Neuroendocrinology</i> , <b>2002</b> , 14, 144-55	3.8	27
20	Caffeine-stimulated GTH-II release involves Ca <sup>(2+)</sup> stores with novel properties. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 282, C635-45	5.4	12
19	Nicotinic acid-adenine dinucleotide phosphate-sensitive calcium stores initiate insulin signaling in human beta cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 14566-71	11.5	123
18	Pacap stimulation of gonadotropin-II secretion in goldfish pituitary cells: mechanisms of action and interaction with gonadotropin releasing hormone signalling. <i>Journal of Neuroendocrinology</i> , <b>2001</b> , 13, 540-50	3.8	38
17	Modulation of gonadotropin II release by K <sup>+</sup> channel blockers in goldfish gonadotropes: a novel stimulatory action of 4-aminopyridine. <i>Journal of Neuroendocrinology</i> , <b>2001</b> , 13, 951-8	3.8	7

16	Caffeine stores and dopamine differentially require Ca(2+) channels in goldfish somatotropes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2001</b> , 280, R494-503 <sup>3-2</sup>	7
15	Mechanisms of action of pituitary adenylate cyclase-activating polypeptide (PACAP) on growth hormone release from dispersed goldfish pituitary cells. <i>Fish Physiology and Biochemistry</i> , <b>2000</b> , 23, 201-214	16
14	Novel, thapsigargin-insensitive intracellular Ca(2+) stores control growth hormone release from goldfish pituitary cells. <i>Molecular and Cellular Endocrinology</i> , <b>2000</b> , 165, 139-50	4.4 31
13	Agonist-specific Ca2+ signaling systems, composed of multiple intracellular Ca2+ stores, regulate gonadotropin secretion. <i>Molecular and Cellular Endocrinology</i> , <b>2000</b> , 170, 15-29	4.4 27
12	Signal transduction mechanisms mediating secretion in goldfish gonadotropes and somatotropes. <i>Biochemistry and Cell Biology</i> , <b>2000</b> , 78, 139-153	3.6 74
11	Function- and agonist-specific Ca2+ signalling: The requirement for and mechanism of spatial and temporal complexity in Ca2+ signals. <i>Biochemistry and Cell Biology</i> , <b>2000</b> , 78, 217-240	3.6 38
10	Function- and agonist-specific Ca2+ signalling: The requirement for and mechanism of spatial and temporal complexity in Ca2+ signals. <i>Biochemistry and Cell Biology</i> , <b>2000</b> , 78, 217-240	3.6 7
9	Two endogenous gonadotropin-releasing hormones generate dissimilar Ca(2+) signals in identified goldfish gonadotropes. <i>General and Comparative Endocrinology</i> , <b>1999</b> , 116, 178-91	3 40
8	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
7	Adipose depot-specific upregulation of Ucp1 or mitochondrial oxidative complex proteins are early consequences of genetic insulin reduction in mice	1
6	Breast cancer endocrine therapy exhausts adipocyte progenitors promoting weight gain and glucose intolerance	2
5	Beta-cell specific Insr deletion promotes insulin hypersecretion and improves glucose tolerance prior to global insulin resistance	3
4	Endogenous insulin contributes to pancreatic cancer development	1
3	Transcriptomic analysis of human and mouse muscle during hyperinsulinemia demonstrates insulin receptor downregulation as a mechanism for insulin resistance	2
2	Ins2 gene bursting activity defines a mature $\beta$ cell state	6
1	Intracellular Ca2+ channels initiate physiological glucose signaling in beta cells examined in situ	2