Patrik Rorsman

List of Publications by Year in Descending Order

315 papers	28,226 citations	92 h-index	158 g-index
322 ext. papers	30,764 ext. citations	9.1 avg, IF	6.98 L-index

#	Paper	IF	Citations
315	Heterogenous impairment of □cell function in type 2 diabetes is linked to cell maturation state.. *Cell Metabolism*, **2022**, 34, 256-268.e5	24.6	4
314	Acetyl-CoA-carboxylase 1 (ACC1) plays a critical role in glucagon secretion.. *Communications Biology* , **2022**, 5, 238	6.7	
313	Reducing hyperglucagonemia in type 2 diabetes using low dose Glibenclamide: Results of the LEGEND-A pilot study.. *Diabetes, Obesity and Metabolism*, **2022**,	6.7	0
312	Arginine-vasopressin mediates counter-regulatory glucagon release and is diminished in type 1 diabetes. *ELife*, **2021**, 10,	8.9	3
311	Release of insulin granules by simultaneous, high-speed correlative SICM-FCM. *Journal of Microscopy*, **2021**, 282, 21-29	1.9	4
310	The vascular architecture of the pancreatic islets: A homage to August Krogh. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2021**, 252, 110846	2.6	1
309	Nanoscale Amperometry Reveals that Only a Fraction of Vesicular Serotonin Content is Released During Exocytosis from Beta Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 7593-7596	16.4	5
308	Nanoscale Amperometry Reveals that Only a Fraction of Vesicular Serotonin Content is Released During Exocytosis from Beta Cells. *Angewandte Chemie*, **2021**, 133, 7671-7674	3.6	2
307	A method for the generation of human stem cell-derived alpha cells. *Nature Communications*, **2020**, 11, 2241	17.4	30
306	Incretin hormones, insulin, glucagon and advanced glycation end products in relation to cognitive function in older people with and without diabetes, a population-based study. *Diabetic Medicine*, **2020**, 37, 1157-1166	3.5	5
305	Somatostatin secretion by Na-dependent Ca-induced Ca release in pancreatic delta-cells. *Nature Metabolism*, **2020**, 2, 32-40	14.6	15
304	"Take Me To Your Leader": An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. *Diabetes*, **2020**, 69, 830-836	0.9	27
303	A Variation on the Theme: SGLT2 Inhibition and Glucagon Secretion in Human Islets. *Diabetes*, **2020**, 69, 864-866	0.9	6
302	□-cell secretory dysfunction: a key cause of type 2 diabetes. *Lancet Diabetes and Endocrinology,the*, **2020**, 8, 370	18.1	3
301	Gs/Gq signaling switch in □cells defines incretin effectiveness in diabetes. *Journal of Clinical Investigation*, **2020**, 130, 6639-6655	15.9	21
300	Reduced somatostatin signalling leads to hypersecretion of glucagon in mice fed a high-fat diet. *Molecular Metabolism*, **2020**, 40, 101021	8.8	21
299	□Resistance is futile?□- paradoxical inhibitory effects of K channel closure in glucagon-secreting □cells. *Journal of Physiology*, **2020**, 598, 4765-4780	3.9	8

298	Response to Comment on Satin et al. "Take Me To Your Leader": An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes 2020;69:830-836. *Diabetes*, **2020**, 69, e12-e13	0.9	6
297	Peripancreatic adipose tissue protects against high-fat-diet-induced hepatic steatosis and insulin resistance in mice. *International Journal of Obesity*, **2020**, 44, 2323-2334	5.5	6
296	Diabetes causes marked inhibition of mitochondrial metabolism in pancreatic -cells. *Nature Communications*, **2019**, 10, 2474	17.4	102
295	Glucose stimulates somatostatin secretion in pancreatic cells by cAMP-dependent intracellular Ca release. *Journal of General Physiology*, **2019**, 151, 1094-1115	3.4	11
294	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. *Nature Genetics*, **2019**, 51, 1596-1606	36.3	45
293	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. *Cell Metabolism*, **2019**, 29, 430-442.e4	24.6	33
292	Cell Dysfunction in Type 2 Diabetes: Drained of Energy?. *Cell Metabolism*, **2019**, 29, 1-2	24.6	28
291	Insulin inhibits glucagon release by SGLT2-induced stimulation of somatostatin secretion. *Nature Communications*, **2019**, 10, 139	17.4	75
290	PYY plays a key role in the resolution of diabetes following bariatric surgery in humans. *EBioMedicine*, **2019**, 40, 67-76	8.8	33
289	Biphasic voltage-dependent inactivation of human Na 1.3, 1.6 and 1.7 Na channels expressed in rodent insulin-secreting cells. *Journal of Physiology*, **2018**, 596, 1601-1626	3.9	5
288	AP2 Mutations Impair Calcium-Sensing Receptor Trafficking and Signaling, and Show an Endosomal Pathway to Spatially Direct G-Protein Selectivity. *Cell Reports*, **2018**, 22, 1054-1066	10.6	44
287	cell glucokinase suppresses glucose-regulated glucagon secretion. *Nature Communications*, **2018**, 9, 546	17.4	47
286	cells and -cells are electrically coupled and regulate cell activity via somatostatin. *Journal of Physiology*, **2018**, 596, 197-215	3.9	85
285	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca Mobilization From Acidic Stores in Pancreatic Cells. *Diabetes*, **2018**, 67, 1128-1139	0.9	46
284	Type 2 diabetes risk alleles in PAM impact insulin release from human pancreatic -cells. *Nature Genetics*, **2018**, 50, 1122-1131	36.3	35
283	Monitoring real-time hormone release kinetics via high-content 3-D imaging of compensatory endocytosis. *Lab on A Chip*, **2018**, 18, 2838-2848	7.2	10
282	CPT1a-Dependent Long-Chain Fatty Acid Oxidation Contributes to Maintaining Glucagon Secretion from Pancreatic Islets. *Cell Reports*, **2018**, 23, 3300-3311	10.6	47
281	Pancreatic -Cell Electrical Activity and Insulin Secretion: Of Mice and Men. *Physiological Reviews*, **2018**, 98, 117-214	47.9	290

280	Electrophysiological properties of human beta-cell lines EndoC-βH1 and -βH2 conform with human beta-cells. *Scientific Reports*, **2018**, 8, 16994	4.9	20
279	GLP-1 suppresses glucagon secretion in human pancreatic alpha-cells by inhibition of P/Q-type Ca channels. *Physiological Reports*, **2018**, 6, e13852	2.6	39
278	Short-term high glucose culture potentiates pancreatic beta cell function. *Scientific Reports*, **2018**, 8, 13061	4.9	7
277	The somatostatin-secreting pancreatic δ-cell in health and disease. *Nature Reviews Endocrinology*, **2018**, 14, 404-414	15.2	84
276	A role of PLC/PKC-dependent pathway in GLP-1-stimulated insulin secretion. *Journal of Molecular Medicine*, **2017**, 95, 361-368	5.5	18
275	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. *Nature Communications*, **2017**, 8, 14733	17.4	88
274	Functional identification of islet cell types by electrophysiological fingerprinting. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	33
273	Fumarate Hydratase Deletion in Pancreatic β Cells Leads to Progressive Diabetes. *Cell Reports*, **2017**, 20, 3135-3148	10.6	34
272	A Central Small Amino Acid in the VAMP2 Transmembrane Domain Regulates the Fusion Pore in Exocytosis. *Scientific Reports*, **2017**, 7, 2835	4.9	14
271	Fusion pore in exocytosis: More than an exit gate? A β-cell perspective. *Cell Calcium*, **2017**, 68, 45-61	4	10
270	Mutant Mice With Calcium-Sensing Receptor Activation Have Hyperglycemia That Is Rectified by Calcilytic Therapy. *Endocrinology*, **2017**, 158, 2486-2502	4.8	21
269	Key Matrix Proteins Within the Pancreatic Islet Basement Membrane Are Differentially Digested During Human Islet Isolation. *American Journal of Transplantation*, **2017**, 17, 451-461	8.7	35
268	Anti-diabetic action of all-trans retinoic acid and the orphan G protein coupled receptor GPRC5C in pancreatic β-cells. *Endocrine Journal*, **2017**, 64, 325-338	2.9	20
267	Ca2+ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. *Journal of Clinical Investigation*, **2017**, 127, 2353-2364	15.9	45
266	Hyperglycaemia induces metabolic dysfunction and glycogen accumulation in pancreatic β-cells. *Nature Communications*, **2016**, 7, 13496	17.4	67
265	Dramatis Personae in β-Cell Mass Regulation: Enter SerpinB1. *Cell Metabolism*, **2016**, 23, 8-10	24.6	4
264	Increased Expression of the Diabetes Gene SOX4 Reduces Insulin Secretion by Impaired Fusion Pore Expansion. *Diabetes*, **2016**, 65, 1952-61	0.9	39
263	Improving the physiological realism of experimental models. *Interface Focus*, **2016**, 6, 20150076	3.9	3

262	The two pore channel TPC2 is dispensable in pancreatic □-cells for normal Ca□+ dynamics and insulin secretion. *Cell Calcium*, **2016**, 59, 32-40	4	20
261	PYY-Dependent Restoration of Impaired Insulin and Glucagon Secretion in Type 2 Diabetes following Roux-En-Y Gastric Bypass Surgery. *Cell Reports*, **2016**, 15, 944-950	10.6	56
260	Glucagon secretion from pancreatic □cells. *Upsala Journal of Medical Sciences*, **2016**, 121, 113-9	2.8	69
259	Angular Approach Scanning Ion Conductance Microscopy. *Biophysical Journal*, **2016**, 110, 2252-65	2.9	17
258	Synaptotagmin-7 phosphorylation mediates GLP-1-dependent potentiation of insulin secretion from □-cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9996-10001	11.5	46
257	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic □Cells. *Journal of Biological Chemistry*, **2015**, 290, 21376-92	5.4	43
256	High-content screening identifies a role for Na(+) channels in insulin production. *Royal Society Open Science*, **2015**, 2, 150306	3.3	13
255	Action of Incretins on the Pancreatic □Cell: Control of Glucagon Secretion **2015**, 79-97		
254	GLP-1 stimulates insulin secretion by PKC-dependent TRPM4 and TRPM5 activation. *Journal of Clinical Investigation*, **2015**, 125, 4714-28	15.9	106
253	ATP-regulated potassium channels and voltage-gated calcium channels in pancreatic alpha and beta cells: similar functions but reciprocal effects on secretion. *Diabetologia*, **2014**, 57, 1749-61	10.3	62
252	Na+ current properties in islet □and □-cells reflect cell-specific Scn3a and Scn9a expression. *Journal of Physiology*, **2014**, 592, 4677-96	3.9	60
251	RFX6 regulates insulin secretion by modulating Ca2+ homeostasis in human □cells. *Cell Reports*, **2014**, 9, 2206-18	10.6	51
250	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. *Nature Communications*, **2014**, 5, 4639	17.4	153
249	Glutamate acts as a key signal linking glucose metabolism to incretin/cAMP action to amplify insulin secretion. *Cell Reports*, **2014**, 9, 661-73	10.6	94
248	Matthias Braun, 23 July 1966-16 November 2013. *Diabetologia*, **2014**, 57, 2431-2	10.3	
247	MicroRNA-7a regulates pancreatic □cell function. *Journal of Clinical Investigation*, **2014**, 124, 2722-35	15.9	193
246	GPRC5B a putative glutamate-receptor candidate is negative modulator of insulin secretion. *Biochemical and Biophysical Research Communications*, **2013**, 441, 643-648	3.4	25
245	K(ATP) channels and islet hormone secretion: new insights and controversies. *Nature Reviews Endocrinology*, **2013**, 9, 660-9	15.2	166

244	An atlas and functional analysis of G-protein coupled receptors in human islets of Langerhans. *Pharmacology & Therapeutics*, **2013**, 139, 359-91	13.9	139
243	Regulation of insulin secretion in human pancreatic islets. *Annual Review of Physiology*, **2013**, 75, 155-79	23.1	399
242	Role of KATP channels in glucose-regulated glucagon secretion and impaired counterregulation in type 2 diabetes. *Cell Metabolism*, **2013**, 18, 871-82	24.6	146
241	TCF7L2 and diabetes: a tale of two tissues, and of two species. *Cell Metabolism*, **2013**, 17, 157-9	24.6	20
240	Multivesicular exocytosis in rat pancreatic beta cells. *Diabetologia*, **2012**, 55, 1001-12	10.3	32
239	Reduced insulin exocytosis in human pancreatic □-cells with gene variants linked to type 2 diabetes. *Diabetes*, **2012**, 61, 1726-33	0.9	174
238	Autocrine regulation of insulin secretion. *Diabetes, Obesity and Metabolism*, **2012**, 14 Suppl 3, 143-51	6.7	68
237	Diabetes mellitus and the □cell: the last ten years. *Cell*, **2012**, 148, 1160-71	56.2	640
236	The insulinogenic effect of whey protein is partially mediated by a direct effect of amino acids and GIP on □-cells. *Nutrition and Metabolism*, **2012**, 9, 48	4.6	72
235	The effects of TAK-875, a selective G protein-coupled receptor 40/free fatty acid 1 agonist, on insulin and glucagon secretion in isolated rat and human islets. *Journal of Pharmacology and Experimental Therapeutics*, **2012**, 340, 483-9	4.7	73
234	Regulation of calcium in pancreatic □and □-cells in health and disease. *Cell Calcium*, **2012**, 51, 300-8	4	155
233	SSTR2 is the functionally dominant somatostatin receptor in human pancreatic □- and □-cells. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 303, E1107-16	6	95
232	Regulation of glucagon secretion by glucose: paracrine, intrinsic or both?. *Diabetes, Obesity and Metabolism*, **2011**, 13 Suppl 1, 95-105	6.7	124
231	Electrophysiology of pancreatic □-cells in intact mouse islets of Langerhans. *Progress in Biophysics and Molecular Biology*, **2011**, 107, 224-35	4.7	75
230	Glucose-responsive beta cells in islets isolated from a patient with long-standing type 1 diabetes mellitus. *Diabetologia*, **2011**, 54, 200-2	10.3	10
229	Per-arnt-sim (PAS) domain kinase (PASK) as a regulator of glucagon secretion. *Diabetologia*, **2011**, 54, 719-21	10.3	9
228	Exocytosis from pancreatic □-cells: mathematical modelling of the exit of low-molecular-weight granule content. *Interface Focus*, **2011**, 1, 143-52	3.9	15
227	SEDLIN forms homodimers: characterisation of SEDLIN mutations and their interactions with transcription factors MBP1, PITX1 and SF1. *PLoS ONE*, **2010**, 5, e10646	3.7	21

226	Gamma-aminobutyric acid (GABA) is an autocrine excitatory transmitter in human pancreatic beta-cells. *Diabetes*, **2010**, 59, 1694-701	0.9	154
225	Membrane potential-dependent inactivation of voltage-gated ion channels in alpha-cells inhibits glucagon secretion from human islets. *Diabetes*, **2010**, 59, 2198-208	0.9	95
224	Mitochondrial matrix pH controls oxidative phosphorylation and metabolism-secretion coupling in INS-1E clonal beta cells. *FASEB Journal*, **2010**, 24, 4613-26	0.9	45
223	CLC-5 and KIF3B interact to facilitate CLC-5 plasma membrane expression, endocytosis, and microtubular transport: relevance to pathophysiology of Dent's disease. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F365-80	4.3	52
222	Progression of diet-induced diabetes in C57BL6J mice involves functional dissociation of Ca2(+) channels from secretory vesicles. *Diabetes*, **2010**, 59, 1192-201	0.9	57
221	Muscle dysfunction caused by a KATP channel mutation in neonatal diabetes is neuronal in origin. *Science*, **2010**, 329, 458-61	33.3	77
220	GLP-1 inhibits and adrenaline stimulates glucagon release by differential modulation of N- and L-type Ca2+ channel-dependent exocytosis. *Cell Metabolism*, **2010**, 11, 543-553	24.6	194
219	Overexpression of alpha2A-adrenergic receptors contributes to type 2 diabetes. *Science*, **2010**, 327, 217-20	33.3	213
218	Enhancement of glucagon secretion in mouse and human pancreatic alpha cells by protein kinase C (PKC) involves intracellular trafficking of PKCalpha and PKCdelta. *Diabetologia*, **2010**, 53, 717-29	10.3	17
217	The glucagon-producing alpha cell: an electrophysiologically exceptional cell. *Diabetologia*, **2010**, 53, 1827-30	10.3	11
216	Defective secretion of islet hormones in chromogranin-B deficient mice. *PLoS ONE*, **2010**, 5, e8936	3.7	50
215	Uromodulin mutations causing familial juvenile hyperuricaemic nephropathy lead to protein maturation defects and retention in the endoplasmic reticulum. *Human Molecular Genetics*, **2009**, 18, 2963-74	5.6	81
214	Deletion of the G protein-coupled receptor 30 impairs glucose tolerance, reduces bone growth, increases blood pressure, and eliminates estradiol-stimulated insulin release in female mice. *Endocrinology*, **2009**, 150, 687-98	4.8	296
213	Kiss-and-run exocytosis and fusion pores of secretory vesicles in human beta-cells. *Pflugers Archiv European Journal of Physiology*, **2009**, 457, 1343-50	4.6	46
212	Quantal ATP release in rat beta-cells by exocytosis of insulin-containing LDCVs. *Pflugers Archiv European Journal of Physiology*, **2009**, 458, 389-401	4.6	29
211	Somatostatin release, electrical activity, membrane currents and exocytosis in human pancreatic delta cells. *Diabetologia*, **2009**, 52, 1566-78	10.3	70
210	Synaptotagmin-7 is a principal Ca2+ sensor for Ca2+ -induced glucagon exocytosis in pancreas. *Journal of Physiology*, **2009**, 587, 1169-78	3.9	84
209	NALCN: a regulated leak channel. *EMBO Reports*, **2009**, 10, 963-4	6.5	18

208	Exocytotic properties of human pancreatic beta-cells. *Annals of the New York Academy of Sciences*, **2009**, 1152, 187-93	6.5	47
207	Type 2 diabetes susceptibility gene TCF7L2 and its role in beta-cell function. *Diabetes*, **2009**, 58, 800-2	0.9	53
206	Regulation of PKD by the MAPK p38delta in insulin secretion and glucose homeostasis. *Cell*, **2009**, 136, 235-48	56.2	195
205	The insulin receptor talks to glucagon?. *Cell Metabolism*, **2009**, 9, 303-5	24.6	12
204	Suppression of sulfonylurea- and glucose-induced insulin secretion in vitro and in vivo in mice lacking the chloride transport protein ClC-3. *Cell Metabolism*, **2009**, 10, 309-15	24.6	38
203	Chronic palmitate exposure inhibits insulin secretion by dissociation of Ca(2+) channels from secretory granules. *Cell Metabolism*, **2009**, 10, 455-65	24.6	116
202	miR-375 maintains normal pancreatic alpha- and beta-cell mass. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5813-8	11.5	594
201	Cell-cell communication between adipocytes and pancreatic beta-cells in acoustically levitated droplets. *Integrative Biology (United Kingdom)*, **2009**, 1, 595-601	3.7	11
200	Impaired insulin exocytosis in neural cell adhesion molecule-/- mice due to defective reorganization of the submembrane F-actin network. *Endocrinology*, **2009**, 150, 3067-75	4.8	34
199	Expression of an activating mutation in the gene encoding the KATP channel subunit Kir6.2 in mouse pancreatic beta cells recapitulates neonatal diabetes. *Journal of Clinical Investigation*, **2009**, 119, 80-90	15.9	86
198	Novel aspects of the molecular mechanisms controlling insulin secretion. *Journal of Physiology*, **2008**, 586, 3313-24	3.9	139
197	K(ATP)-channels and glucose-regulated glucagon secretion. *Trends in Endocrinology and Metabolism* , **2008**, 19, 277-84	8.8	77
196	CAPS1 and CAPS2 regulate stability and recruitment of insulin granules in mouse pancreatic beta cells. *Cell Metabolism*, **2008**, 7, 57-67	24.6	59
195	PVHL is a regulator of glucose metabolism and insulin secretion in pancreatic beta cells. *Genes and Development*, **2008**, 22, 3135-46	12.6	74
194	Voltage-gated ion channels in human pancreatic beta-cells: electrophysiological characterization and role in insulin secretion. *Diabetes*, **2008**, 57, 1618-28	0.9	315
193	Cell coupling in mouse pancreatic beta-cells measured in intact islets of Langerhans. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2008**, 366, 3503-23	3	58
192	Pathophysiological, genetic and gene expression features of a novel rodent model of the cardio-metabolic syndrome. *PLoS ONE*, **2008**, 3, e2962	3.7	22
191	Long-term exposure of mouse pancreatic islets to oleate or palmitate results in reduced glucose-induced somatostatin and oversecretion of glucagon. *Diabetologia*, **2008**, 51, 1689-93	10.3	23

190	Quantification of mRNA in single cells and modelling of RT-qPCR induced noise. *BMC Molecular Biology*, **2008**, 9, 63	4.5	93
189	Regulation of Insulin Granule Exocytosis **2008**, 147-176		2
188	The ins and outs of secretion from pancreatic beta-cells: control of single-vesicle exo- and endocytosis. *Physiology*, **2007**, 22, 113-21	9.8	41
187	R-type Ca(2+)-channel-evoked CICR regulates glucose-induced somatostatin secretion. *Nature Cell Biology*, **2007**, 9, 453-60	23.4	86
186	A K ATP channel-dependent pathway within alpha cells regulates glucagon release from both rodent and human islets of Langerhans. *PLoS Biology*, **2007**, 5, e143	9.7	175
185	Long-term exposure to glucose and lipids inhibits glucose-induced insulin secretion downstream of granule fusion with plasma membrane. *Diabetes*, **2007**, 56, 1888-97	0.9	75
184	A dominant mutation in Snap25 causes impaired vesicle trafficking, sensorimotor gating, and ataxia in the blind-drunk mouse. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 2431-6	11.5	100
183	Corelease and differential exit via the fusion pore of GABA, serotonin, and ATP from LDCV in rat pancreatic beta cells. *Journal of General Physiology*, **2007**, 129, 221-31	3.4	86
182	Co-localisation of the Kir6.2/SUR1 channel complex with glucagon-like peptide-1 and glucose-dependent insulinotrophic polypeptide expression in human ileal cells and implications for glycaemic control in new onset type 1 diabetes. *European Journal of Endocrinology*, **2007**, 156, 663-71	6.5	52
181	Secretory and electrophysiological characteristics of insulin cells from gastrectomized mice: evidence for the existence of insulinotropic agents in the stomach. *Regulatory Peptides*, **2007**, 139, 31-8		1
180	The obesity-associated FTO gene encodes a 2-oxoglutarate-dependent nucleic acid demethylase. *Science*, **2007**, 318, 1469-72	33.3	1119
179	Oscillations, intercellular coupling, and insulin secretion in pancreatic beta cells. *PLoS Biology*, **2006**, 4, e49	9.7	54
178	Antibody inhibition of synaptosomal protein of 25 kDa (SNAP-25) and syntaxin 1 reduces rapid exocytosis in insulin-secreting cells. *Journal of Molecular Endocrinology*, **2006**, 36, 503-15	4.5	32
177	Failure of transplanted bone marrow cells to adopt a pancreatic beta-cell fate. *Diabetes*, **2006**, 55, 290-6	0.9	100
176	Release of small transmitters through kiss-and-run fusion pores in rat pancreatic beta cells. *Cell Metabolism*, **2006**, 4, 283-90	24.6	114
175	Calcium increases endocytotic vesicle size and accelerates membrane fission in insulin-secreting INS-1 cells. *Journal of Cell Science*, **2005**, 118, 5911-20	5.3	60
174	Glucose-sensing mechanisms in pancreatic beta-cells. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2005**, 360, 2211-25	5.8	246
173	Selective nucleotide-release from dense-core granules in insulin-secreting cells. *Journal of Cell Science*, **2005**, 118, 4271-82	5.3	109

172	Review: Insulin secretion: function and therapy of pancreatic beta-cells in diabetes. *British Journal of Diabetes and Vascular Disease*, **2005**, 5, 187-191		14
171	Gene expression profiling in single cells from the pancreatic islets of Langerhans reveals lognormal distribution of mRNA levels. *Genome Research*, **2005**, 15, 1388-92	9.7	292
170	Regulated exocytosis and kiss-and-run of synaptic-like microvesicles in INS-1 and primary rat beta-cells. *Diabetes*, **2005**, 54, 736-43	0.9	60
169	Glucagon stimulates exocytosis in mouse and rat pancreatic alpha-cells by binding to glucagon receptors. *Molecular Endocrinology*, **2005**, 19, 198-212		94
168	CaV2.3 calcium channels control second-phase insulin release. *Journal of Clinical Investigation*, **2005** , 115, 146-154	15.9	125
167	CaV2.3 calcium channels control second-phase insulin release. *Journal of Clinical Investigation*, **2005** , 115, 146-54	15.9	69
166	New insights into the regulation of glucagon secretion by glucagon-like peptide-1. *Hormone and Metabolic Research*, **2004**, 36, 822-9	3.1	26
165	Hormone-sensitive lipase deficiency in mouse islets abolishes neutral cholesterol ester hydrolase activity but leaves lipolysis, acylglycerides, fat oxidation, and insulin secretion intact. *Endocrinology*, **2004**, 145, 3746-53	4.8	29
164	Insulin secretion: a high-affinity Ca2+ sensor after all?. *Journal of General Physiology*, **2004**, 124, 623-5	3.4	15
163	Regulated exocytosis of GABA-containing synaptic-like microvesicles in pancreatic beta-cells. *Journal of General Physiology*, **2004**, 123, 191-204	3.4	108
162	The first gamma-carboxyglutamic acid-containing contryphan. A selective L-type calcium ion channel blocker isolated from the venom of Conus marmoreus. *Journal of Biological Chemistry*, **2004**, 279, 32453-63	5.4	59
161	Type 2 diabetes mellitus: not quite exciting enough?. *Human Molecular Genetics*, **2004**, 13 Spec No 1, R21-31	5.6	78
160	Palmitate stimulation of glucagon secretion in mouse pancreatic alpha-cells results from activation of L-type calcium channels and elevation of cytoplasmic calcium. *Diabetes*, **2004**, 53, 2836-43	0.9	61
159	Glucagon-like peptide-1: regulation of insulin secretion and therapeutic potential. *Basic and Clinical Pharmacology and Toxicology*, **2004**, 95, 252-62	3.1	78
158	A pancreatic islet-specific microRNA regulates insulin secretion. *Nature*, **2004**, 432, 226-30	50.4	1714
157	Capacitance measurements of exocytosis in mouse pancreatic alpha-, beta- and delta-cells within intact islets of Langerhans. *Journal of Physiology*, **2004**, 556, 711-26	3.9	127
156	Palmitate increases L-type Ca2+ currents and the size of the readily releasable granule pool in mouse pancreatic beta-cells. *Journal of Physiology*, **2004**, 557, 935-48	3.9	71
155	GABAB receptor activation inhibits exocytosis in rat pancreatic beta-cells by G-protein-dependent activation of calcineurin. *Journal of Physiology*, **2004**, 559, 397-409	3.9	59

154	Molecular defects in insulin secretion in type-2 diabetes. *Reviews in Endocrine and Metabolic Disorders*, **2004**, 5, 135-42	10.5	46
153	ATP-sensitive K+ channel-dependent regulation of glucagon release and electrical activity by glucose in wild-type and SUR1-/- mouse alpha-cells. *Diabetes*, **2004**, 53 Suppl 3, S181-9	0.9	130
152	Glucose inhibition of glucagon secretion from rat alpha-cells is mediated by GABA released from neighboring beta-cells. *Diabetes*, **2004**, 53, 1038-45	0.9	204
151	Large dense-core vesicle exocytosis in pancreatic beta-cells monitored by capacitance measurements. *Methods*, **2004**, 33, 302-11	4.6	36
150	Isoform-specific regulation of mood behavior and pancreatic beta cell and cardiovascular function by L-type Ca 2+ channels. *Journal of Clinical Investigation*, **2004**, 113, 1430-9	15.9	144
149	Impaired insulin secretion and glucose tolerance in beta cell-selective Ca(v)1.2 Ca2+ channel null mice. *EMBO Journal*, **2003**, 22, 3844-54	13	174
148	Insulin granule dynamics in pancreatic beta cells. *Diabetologia*, **2003**, 46, 1029-45	10.3	599
147	Imidazoline NNC77-0074 stimulates insulin secretion and inhibits glucagon release by control of Ca(2+)-dependent exocytosis in pancreatic alpha- and beta-cells. *European Journal of Pharmacology*, **2003**, 466, 213-21	5.3	14
146	SUR1 regulates PKA-independent cAMP-induced granule priming in mouse pancreatic B-cells. *Journal of General Physiology*, **2003**, 121, 181-97	3.4	222
145	Phosphatidylinositol 4-kinase serves as a metabolic sensor and regulates priming of secretory granules in pancreatic beta cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 5187-92	11.5	88
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6	Arginine-vasopressin mediates counter-regulatory glucagon release and is diminished in type 1 diabetes		1
5	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion		3
4	GLP-1(9-36) mediates the glucagonostatic effect of GLP-1 by promiscuous activation of the glucagon receptor		4
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2	Type 2 Diabetes Risk Alleles Reveal a Role for Peptidylglycine Alpha-amidating Monooxygenase in Beta Cell Function		2
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