Patrik Rorsman

List of Publications by Year
in descending order

310 papers	33,580 citations	2322 98 h-index	4645 170 g-index
323 all docs	323 docs citations	323 times ranked	22372 citing authors

#	Article	IF	Citations
1	Heterogenous impairment of Î± cell function in type 2 diabetes is linked to cell maturation state. Cell Metabolism, 2022, 34, 256-268.e5.	16.2	39
2	Acetyl-CoA-carboxylase 1 (ACC1) plays a critical role in glucagon secretion. Communications Biology, 2022, 5, 238.	4.4	8
3	Reducing hyperglucagonaemia in type 2 diabetes using lowâ€dose glibenclamide: Results of the <scp>LEGENDâ€A</scp> pilot study. Diabetes, Obesity and Metabolism, 2022, 24, 1671-1675.	4.4	3
4	Release of insulin granules by simultaneous, highâ€speed correlative SICMâ€FCM. Journal of Microscopy, 2021, 282, 21-29.	1.8	8
5	The vascular architecture of the pancreatic islets: A homage to August Krogh. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 252, 110846.	1.8	12
6	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.	13.8	30
7	Nanoscale Amperometry Reveals that Only a Fraction of Vesicular Serotonin Content is Released During Exocytosis from Beta Cells. Angewandte Chemie, 2021, 133, 7671-7674.	2.0	11
8	Arginine-vasopressin mediates counter-regulatory glucagon release and is diminished in type 1 diabetes. ELife, 2021, 10, .	6.0	20
9	â€˜Resistance is futile?â€™ â€“ paradoxical inhibitory effects of K ATP channel closure in glucagonâ€secreting Î±â€cells. Journal of Physiology, 2020, 598, 4765-4780.	2.9	16
10	Response to Comment on Satin et al. â€œTake Me To Your Leaderâ€: An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes 2020;69:830â€“836. Diabetes, 2020, 69, e12-e13.	0.6	9
11	Peripancreatic adipose tissue protects against high-fat-diet-induced hepatic steatosis and insulin resistance in mice. International Journal of Obesity, 2020, 44, 2323-2334.	3.4	14
12	A method for the generation of human stem cell-derived alpha cells. Nature Communications, 2020, 11, 2241.	12.8	54
13	Incretin hormones, insulin, glucagon and advanced glycation end products in relation to cognitive function in older people with and without diabetes, a populationâ€based study. Diabetic Medicine, 2020, 37, 1157-1166.	2.3	11
14	Somatostatin secretion by Na+-dependent Ca2+-induced Ca2+ release in pancreatic delta cells. Nature Metabolism, 2020, 2, 32-40.	11.9	26
15	â€œTake Me To Your Leaderâ€: An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes, 2020, 69, 830-836.	0.6	50
16	A Variation on the Theme: SGLT2 Inhibition and Glucagon Secretion in Human Islets. Diabetes, 2020, 69, 864-866.	0.6	14
17	Î²-cell secretory dysfunction: a key cause of type 2 diabetes. Lancet Diabetes and Endocrinology,the, 2020, 8, 370.	11.4	21
18	Reduced somatostatin signalling leads to hypersecretion of glucagon in mice fed a high-fat diet. Molecular Metabolism, 2020, 40, 101021.	6.5	39

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19	Gs/Gq signaling switch in Î² cells defines incretin effectiveness in diabetes. Journal of Clinical Investigation, 2020, 130, 6639-6655.	8.2	46
20	Glucose stimulates somatostatin secretion in pancreatic Î´-cells by cAMP-dependent intracellular Ca2+ release. Journal of General Physiology, 2019, 151, 1094-1115.	1.9	19
21	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. Nature Genetics, 2019, 51, 1596-1606.	21.4	96
22	Diabetes causes marked inhibition of mitochondrial metabolism in pancreatic Î²-cells. Nature Communications, 2019, 10, 2474.	12.8	223
23	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. Cell Metabolism, 2019, 29, 430-442.e4.	16.2	57
24	Î² Cell Dysfunction in Type 2 Diabetes: Drained of Energy?. Cell Metabolism, 2019, 29, 1-2.	16.2	36
25	Insulin inhibits glucagon release by SGLT2-induced stimulation of somatostatin secretion. Nature Communications, 2019, 10, 139.	12.8	117
26	PYY plays a key role in the resolution of diabetes following bariatric surgery in humans. EBioMedicine, 2019, 40, 67-76.	6.1	65
27	Biphasic voltageâ€dependent inactivation of human Na_V1.3, 1.6 and 1.7 Na⁺ channels expressed in rodent insulinâ€secreting cells. Journal of Physiology, 2018, 596, 1601-1626.	2.9	6
28	AP2Ïƒ 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.	6.4	66
29	Î±-cell glucokinase suppresses glucose-regulated glucagon secretion. Nature Communications, 2018, 9, 546.	12.8	72
30	Î´â€cells and Î²â€cells are electrically coupled and regulate Î±â€cell activity via somatostatin. Journal of Physiology, 2018, 596, 197-215.	2.9	117
31	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic Î±-Cells. Diabetes, 2018, 67, 1128-1139.	0.6	61
32	Electrophysiological properties of human beta-cell lines EndoC-Î²H1 and -Î²H2 conform with human beta-cells. Scientific Reports, 2018, 8, 16994.	3.3	39
33	GLP-1 suppresses glucagon secretion in human pancreatic alpha-cells by inhibition of P/Q-type Ca²⁺ channels. Physiological Reports, 2018, 6, e13852.	1.7	71
34	Short-term high glucose culture potentiates pancreatic beta cell function. Scientific Reports, 2018, 8, 13061.	3.3	19
35	The somatostatin-secreting pancreatic Î´-cell in health and disease. Nature Reviews Endocrinology, 2018, 14, 404-414.	9.6	164
36	Type 2 diabetes risk alleles in PAM impact insulin release from human pancreatic Î²-cells. Nature Genetics, 2018, 50, 1122-1131.	21.4	59

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37	Monitoring real-time hormone release kinetics <i>via</i> high-content 3-D imaging of compensatory endocytosis. Lab on A Chip, 2018, 18, 2838-2848.	6.0	17
38	Type-2 Diabetes - A Fusion Pore Disease?. Biophysical Journal, 2018, 114, 10a.	0.5	0
39	CPT1a-Dependent Long-Chain Fatty Acid Oxidation Contributes to Maintaining Glucagon Secretion from Pancreatic Islets. Cell Reports, 2018, 23, 3300-3311.	6.4	71
40	Pancreatic Î²-Cell Electrical Activity and Insulin Secretion: Of Mice and Men. Physiological Reviews, 2018, 98, 117-214.	28.8	497
41	A role of PLC/PKC-dependent pathway in GLP-1-stimulated insulin secretion. Journal of Molecular Medicine, 2017, 95, 361-368.	3.9	30
42	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. Nature Communications, 2017, 8, 14733.	12.8	136
43	Functional identification of islet cell types by electrophysiological fingerprinting. Journal of the Royal Society Interface, 2017, 14, 20160999.	3.4	45
44	Fumarate Hydratase Deletion in Pancreatic Î² Cells Leads to Progressive Diabetes. Cell Reports, 2017, 20, 3135-3148.	6.4	57
45	A Central Small Amino Acid in the VAMP2 Transmembrane Domain Regulates the Fusion Pore in Exocytosis. Scientific Reports, 2017, 7, 2835.	3.3	25
46	Fusion pore in exocytosis: More than an exit gate? A Î²-cell perspective. Cell Calcium, 2017, 68, 45-61.	2.4	19
47	Mutant Mice With Calcium-Sensing Receptor Activation Have Hyperglycemia That Is Rectified by Calcilytic Therapy. Endocrinology, 2017, 158, 2486-2502.	2.8	31
48	Key Matrix Proteins Within the Pancreatic Islet Basement Membrane Are Differentially Digested During Human Islet Isolation. American Journal of Transplantation, 2017, 17, 451-461.	4.7	50
49	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.	1.6	30
50	Ca2+ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. Journal of Clinical Investigation, 2017, 127, 2353-2364.	8.2	70
51	The two pore channel TPC2 is dispensable in pancreatic Î²-cells for normal Ca2+ dynamics and insulin secretion. Cell Calcium, 2016, 59, 32-40.	2.4	26
52	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.	6.4	70
53	Glucagon secretion from pancreatic Î±-cells. Upsala Journal of Medical Sciences, 2016, 121, 113-119.	0.9	108
54	Angular Approach Scanning Ion Conductance Microscopy. Biophysical Journal, 2016, 110, 2252-2265.	0.5	23

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55	Hyperglycaemia induces metabolic dysfunction and glycogen accumulation in pancreatic Î²-cells. Nature Communications, 2016, 7, 13496.	12.8	90
56	Dramatis Personae in Î²-Cell Mass Regulation: Enter SerpinB1. Cell Metabolism, 2016, 23, 8-10.	16.2	4
57	Increased Expression of the Diabetes Gene <i>SOX4</i> Reduces Insulin Secretion by Impaired Fusion Pore Expansion. Diabetes, 2016, 65, 1952-1961.	0.6	55
58	Improving the physiological realism of experimental models. Interface Focus, 2016, 6, 20150076.	3.0	4
59	High-content screening identifies a role for Na ⁺ channels in insulin production. Royal Society Open Science, 2015, 2, 150306.	2.4	20
60	Action of Incretins on the Pancreatic Î± Cell: Control of Glucagon Secretion. , 2015, , 79-97.		0
61	Synaptotagmin-7 phosphorylation mediates GLP-1â€“dependent potentiation of insulin secretion from Î²-cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9996-10001.	7.1	65
62	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic Î² Cells. Journal of Biological Chemistry, 2015, 290, 21376-21392.	3.4	48
63	GLP-1 stimulates insulin secretion by PKC-dependent TRPM4 and TRPM5 activation. Journal of Clinical Investigation, 2015, 125, 4714-4728.	8.2	145
64	RFX6 Regulates Insulin Secretion by Modulating Ca2+ Homeostasis in Human Î² Cells. Cell Reports, 2014, 9, 2206-2218.	6.4	73
65	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. Nature Communications, 2014, 5, 4639.	12.8	220
66	Glutamate Acts as a Key Signal Linking Glucose Metabolism to Incretin/cAMP Action to Amplify Insulin Secretion. Cell Reports, 2014, 9, 661-673.	6.4	128
67	Matthias Braun, 23 July 1966â€“16 November 2013. Diabetologia, 2014, 57, 2431-2432.	6.3	0
68	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, 1749-1761.	6.3	74
69	Na⁺ current properties in islet Î±â€•and Î²â€cells reflect cellâ€specific <i>Scn3a</i> and <i>Scn9a</i> expression. Journal of Physiology, 2014, 592, 4677-4696.	2.9	78
70	MicroRNA-7a regulates pancreatic Î² cell function. Journal of Clinical Investigation, 2014, 124, 2722-2735.	8.2	251
71	GPRC5B a putative glutamate-receptor candidate is negative modulator of insulin secretion. Biochemical and Biophysical Research Communications, 2013, 441, 643-648.	2.1	33
72	KATP channels and islet hormone secretion: new insights and controversies. Nature Reviews Endocrinology, 2013, 9, 660-669.	9.6	221

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73	An atlas and functional analysis of G-protein coupled receptors in human islets of Langerhans. , 2013, 139, 359-391.		168
74	Regulation of Insulin Secretion in Human Pancreatic Islets. Annual Review of Physiology, 2013, 75, 155-179.	13.1	496
75	Role of KATP Channels in Glucose-Regulated Glucagon Secretion and Impaired Counterregulation in Type 2 Diabetes. Cell Metabolism, 2013, 18, 871-882.	16.2	179
76	TCF7L2 and Diabetes: A Tale of Two Tissues, and of Two Species. Cell Metabolism, 2013, 17, 157-159.	16.2	21
77	SSTR2 is the functionally dominant somatostatin receptor in human pancreatic Î²- and Î±-cells. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1107-E1116.	3.5	119
78	Reduced Insulin Exocytosis in Human Pancreatic Î²-Cells With Gene Variants Linked to Type 2 Diabetes. Diabetes, 2012, 61, 1726-1733.	0.6	204
79	Autocrine regulation of insulin secretion. Diabetes, Obesity and Metabolism, 2012, 14, 143-151.	4.4	83
80	Diabetes Mellitus and the Î² Cell: The Last Ten Years. Cell, 2012, 148, 1160-1171.	28.9	761
81	The insulinogenic effect of whey protein is partially mediated by a direct effect of amino acids and GIP on Î²-cells. Nutrition and Metabolism, 2012, 9, 48.	3.0	88
82	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, 483-489.	2.5	79
83	Regulation of calcium in pancreatic Î±- and Î²-cells in health and disease. Cell Calcium, 2012, 51, 300-308.	2.4	195
84	Multivesicular exocytosis in rat pancreatic beta cells. Diabetologia, 2012, 55, 1001-1012.	6.3	35
85	Regulation of glucagon secretion by glucose: paracrine, intrinsic or both?. Diabetes, Obesity and Metabolism, 2011, 13, 95-105.	4.4	160
86	Electrophysiology of pancreatic Î²-cells in intact mouse islets of Langerhans. Progress in Biophysics and Molecular Biology, 2011, 107, 224-235.	2.9	87
87	Glucose-responsive beta cells in islets isolated from a patient with long-standing type 1 diabetes mellitus. Diabetologia, 2011, 54, 200-202.	6.3	11
88	Per-arnt-sim (PAS) domain kinase (PASK) as a regulator of glucagon secretion. Diabetologia, 2011, 54, 719-721.	6.3	12
89	Exocytosis from pancreatic Î²-cells: mathematical modelling of the exit of low-molecular-weight granule content. Interface Focus, 2011, 1, 143-152.	3.0	16
90	Enhancement of glucagon secretion in mouse and human pancreatic alpha cells by protein kinase C (PKC) involves intracellular trafficking of PKCÎ± and PKCÎ´. Diabetologia, 2010, 53, 717-729.	6.3	19

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91	The glucagon-producing alpha cell: an electrophysiologically exceptional cell. Diabetologia, 2010, 53, 1827-1830.	6.3	12
92	SEDLIN Forms Homodimers: Characterisation of SEDLIN Mutations and Their Interactions with Transcription Factors MBP1, PITX1 and SF1. PLoS ONE, 2010, 5, e10646.	2.5	23
93	Î³-Aminobutyric Acid (GABA) Is an Autocrine Excitatory Transmitter in Human Pancreatic Î²-Cells. Diabetes, 2010, 59, 1694-1701.	0.6	190
94	Membrane Potential-Dependent Inactivation of Voltage-Gated Ion Channels in Î±-Cells Inhibits Glucagon Secretion From Human Islets. Diabetes, 2010, 59, 2198-2208.	0.6	110
95	Mitochondrial matrix pH controls oxidative phosphorylation and metabolismâ€secretion coupling in INSâ€1E clonal Î² cells. FASEB Journal, 2010, 24, 4613-4626.	0.5	49
96	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-F380.	2.7	56
97	Progression of Diet-Induced Diabetes in C57BL6J Mice Involves Functional Dissociation of Ca2+ Channels From Secretory Vesicles. Diabetes, 2010, 59, 1192-1201.	0.6	63
98	Muscle Dysfunction Caused by a K _{ATP} Channel Mutation in Neonatal Diabetes Is Neuronal in Origin. Science, 2010, 329, 458-461.	12.6	87
99	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.	16.2	225
100	Overexpression of Alpha2A-Adrenergic Receptors Contributes to Type 2 Diabetes. Science, 2010, 327, 217-220.	12.6	266
101	Defective Secretion of Islet Hormones in Chromogranin-B Deficient Mice. PLoS ONE, 2010, 5, e8936.	2.5	61
102	Uromodulin mutations causing familial juvenile hyperuricaemic nephropathy lead to protein maturation defects and retention in the endoplasmic reticulum. Human Molecular Genetics, 2009, 18, 2963-2974.	2.9	94
103	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, 687-698.	2.8	343
104	Kiss-and-run exocytosis and fusion pores of secretory vesicles in human Î²-cells. Pflugers Archiv European Journal of Physiology, 2009, 457, 1343-1350.	2.8	51
105	Quantal ATP release in rat Î²-cells by exocytosis of insulin-containing LDCVs. Pflugers Archiv European Journal of Physiology, 2009, 458, 389-401.	2.8	32
106	Somatostatin release, electrical activity, membrane currents and exocytosis in human pancreatic delta cells. Diabetologia, 2009, 52, 1566-1578.	6.3	81
107	Synaptotagminâ€7 is a principal Ca²⁺ sensor for Ca²⁺â€induced glucagon exocytosis in pancreas. Journal of Physiology, 2009, 587, 1169-1178.	2.9	87
108	NALCN: a regulated leak channel. EMBO Reports, 2009, 10, 963-964.	4.5	18

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109	Exocytotic Properties of Human Pancreatic Î²â€cells. Annals of the New York Academy of Sciences, 2009, 1152, 187-193.	3.8	51
110	Type 2 Diabetes Susceptibility Gene <i>TCF7L2</i> and Its Role in Î²-Cell Function. Diabetes, 2009, 58, 800-802.	0.6	58
111	Regulation of PKD by the MAPK p38Î´ in Insulin Secretion and Glucose Homeostasis. Cell, 2009, 136, 235-248.	28.9	215
112	The Insulin Receptor Talks to Glucagon?. Cell Metabolism, 2009, 9, 303-305.	16.2	16
113	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, 309-315.	16.2	45
114	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	16.2	131
115	<i>miR-375</i> maintains normal pancreatic Î±- and Î²-cell mass. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5813-5818.	7.1	710
116	Cellâ€“cell communication between adipocytes and pancreatic Î²-cells in acoustically levitated droplets. Integrative Biology (United Kingdom), 2009, 1, 595.	1.3	13
117	Impaired Insulin Exocytosis in Neural Cell Adhesion Moleculeâˆ’/âˆ’ Mice Due to Defective Reorganization of the Submembrane F-Actin Network. Endocrinology, 2009, 150, 3067-3075.	2.8	37
118	Expression of an activating mutation in the gene encoding the KATP channel subunit Kir6.2 in mouse pancreatic Î² cells recapitulates neonatal diabetes. Journal of Clinical Investigation, 2009, 119, 80-90.	8.2	95
119	Long-term exposure of mouse pancreatic islets to oleate or palmitate results in reduced glucose-induced somatostatin and oversecretion of glucagon. Diabetologia, 2008, 51, 1689-1693.	6.3	32
120	Quantification of mRNA in single cells and modelling of RT-qPCR induced noise. BMC Molecular Biology, 2008, 9, 63.	3.0	104
121	Novel aspects of the molecular mechanisms controlling insulin secretion. Journal of Physiology, 2008, 586, 3313-3324.	2.9	162
122	KATP-channels and glucose-regulated glucagon secretion. Trends in Endocrinology and Metabolism, 2008, 19, 277-284.	7.1	86
123	CAPS1 and CAPS2 Regulate Stability and Recruitment of Insulin Granules in Mouse Pancreatic Î² Cells. Cell Metabolism, 2008, 7, 57-67.	16.2	65
124	pVHL is a regulator of glucose metabolism and insulin secretion in pancreatic Î² cells. Genes and Development, 2008, 22, 3135-3146.	5.9	88
125	Voltage-Gated Ion Channels in Human Pancreatic Î²-Cells: Electrophysiological Characterization and Role in Insulin Secretion. Diabetes, 2008, 57, 1618-1628.	0.6	362
126	Cell coupling in mouse pancreatic Î²-cells measured in intact islets of Langerhans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3503-3523.	3.4	69

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127	Pathophysiological, Genetic and Gene Expression Features of a Novel Rodent Model of the Cardio-Metabolic Syndrome. PLoS ONE, 2008, 3, e2962.	2.5	24
128	Regulation of Insulin Granule Exocytosis. , 2008, , 147-176.		3
129	A KATP Channel-Dependent Pathway within Î± Cells Regulates Glucagon Release from Both Rodent and Human Islets of Langerhans. PLoS Biology, 2007, 5, e143.	5.6	203
130	Long-Term Exposure to Glucose and Lipids Inhibits Glucose-Induced Insulin Secretion Downstream of Granule Fusion With Plasma Membrane. Diabetes, 2007, 56, 1888-1897.	0.6	83
131	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, 2431-2436.	7.1	109
132	Corelease and Differential Exit via the Fusion Pore of GABA, Serotonin, and ATP from LDCV in Rat Pancreatic Î² Cells. Journal of General Physiology, 2007, 129, 221-231.	1.9	94
133	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, 663-671.	3.7	55
134	Secretory and electrophysiological characteristics of insulin cells from gastrectomized mice: Evidence for the existence of insulinotropic agents in the stomach. Regulatory Peptides, 2007, 139, 31-38.	1.9	2
135	The Obesity-Associated<i>FTO</i>Gene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. Science, 2007, 318, 1469-1472.	12.6	1,305
136	The Ins and Outs of Secretion from Pancreatic Î²-Cells: Control of Single-Vesicle Exo- and Endocytosis. Physiology, 2007, 22, 113-121.	3.1	52
137	R-type Ca2+-channel-evoked CICR regulates glucose-induced somatostatin secretion. Nature Cell Biology, 2007, 9, 453-460.	10.3	95
138	Release of small transmitters through kiss-and-run fusion pores in rat pancreatic Î² cells. Cell Metabolism, 2006, 4, 283-290.	16.2	127
139	Oscillations, Intercellular Coupling, and Insulin Secretion in Pancreatic Î² Cells. PLoS Biology, 2006, 4, e49.	5.6	68
140	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, 503-515.	2.5	36
141	Failure of Transplanted Bone Marrow Cells to Adopt a Pancreatic Â-Cell Fate. Diabetes, 2006, 55, 290-296.	0.6	112
142	Calcium increases endocytotic vesicle size and accelerates membrane fission in insulin-secreting INS-1 cells. Journal of Cell Science, 2005, 118, 5911-5920.	2.0	63
143	Glucose-sensing mechanisms in pancreatic Î²-cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2211-2225.	4.0	281
144	Selective nucleotide-release from dense-core granules in insulin-secreting cells. Journal of Cell Science, 2005, 118, 4271-4282.	2.0	129

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145	Review: Insulin secretion: function and therapy of pancreatic beta-cells in diabetes. British Journal of Diabetes and Vascular Disease, 2005, 5, 187-191.	0.6	20
146	Gene expression profiling in single cells from the pancreatic islets of Langerhans reveals lognormal distribution of mRNA levels. Genome Research, 2005, 15, 1388-1392.	5.5	337
147	Regulated Exocytosis and Kiss-and-Run of Synaptic-Like Microvesicles in INS-1 and Primary Rat Â-Cells. Diabetes, 2005, 54, 736-743.	0.6	63
148	Glucagon Stimulates Exocytosis in Mouse and Rat Pancreatic Î±-Cells by Binding to Glucagon Receptors. Molecular Endocrinology, 2005, 19, 198-212.	3.7	121
149	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	8.2	153
150	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	8.2	81
151	New Insights into the Regulation of Glucagon Secretion by Glucagon-like Peptide-1. Hormone and Metabolic Research, 2004, 36, 822-829.	1.5	31
152	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, 3746-3753.	2.8	31
153	Insulin Secretion. Journal of General Physiology, 2004, 124, 623-625.	1.9	16
154	Regulated Exocytosis of GABA-containing Synaptic-like Microvesicles in Pancreatic Î²-cells. Journal of General Physiology, 2004, 123, 191-204.	1.9	118
155	The First Î³-Carboxyglutamic Acid-containing Contryphan. Journal of Biological Chemistry, 2004, 279, 32453-32463.	3.4	69
156	Type 2 diabetes mellitus: not quite exciting enough?. Human Molecular Genetics, 2004, 13, 21R-31.	2.9	90
157	Palmitate Stimulation of Glucagon Secretion in Mouse Pancreatic Â-Cells Results From Activation of L-Type Calcium Channels and Elevation of Cytoplasmic Calcium. Diabetes, 2004, 53, 2836-2843.	0.6	85
158	Glucagon-Like Peptide-1: Regulation of Insulin Secretion and Therapeutic Potential. Basic and Clinical Pharmacology and Toxicology, 2004, 95, 252-262.	2.5	87
159	A pancreatic islet-specific microRNA regulates insulin secretion. Nature, 2004, 432, 226-230.	27.8	1,932
160	Capacitance measurements of exocytosis in mouse pancreatic Î±-, Î²- and Î´-cells within intact islets of Langerhans. Journal of Physiology, 2004, 556, 711-726.	2.9	137
161	Palmitate increases L-type Ca2+currents and the size of the readily releasable granule pool in mouse pancreatic Î²-cells. Journal of Physiology, 2004, 557, 935-948.	2.9	79
162	GABABreceptor activation inhibits exocytosis in rat pancreatic Î²-cells by G-protein-dependent activation of calcineurin. Journal of Physiology, 2004, 559, 397-409.	2.9	67

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163	Molecular Defects in Insulin Secretion in Type-2 Diabetes. Reviews in Endocrine and Metabolic Disorders, 2004, 5, 135-142.	5.7	54
164	ATP-Sensitive K+ Channel-Dependent Regulation of Glucagon Release and Electrical Activity by Glucose in Wild-Type and SUR1-/- Mouse Â-Cells. Diabetes, 2004, 53, S181-S189.	0.6	142
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