Patrik Rorsman

List of Publications by Year
in descending order

309 papers	33,580 citations	2311 98 h-index	4628 170 g-index
323 all docs	323 docs citations	323 times ranked	22372 citing authors

#	Article	IF	Citations
1	A pancreatic islet-specific microRNA regulates insulin secretion. Nature, 2004, 432, 226-230.	13.7	1,932
2	The Obesity-Associated <i>FTO</i> Gene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. Science, 2007, 318, 1469-1472.	6.0	1,305
3	Electrophysiology of the pancreatic Î²-cell. Progress in Biophysics and Molecular Biology, 1989, 54, 87-143.	1.4	984
4	Diabetes Mellitus and the Î² Cell: The Last Ten Years. Cell, 2012, 148, 1160-1171.	13.5	761
5	<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.	3.3	710
6	Insulin granule dynamics in pancreatic beta cells. Diabetologia, 2003, 46, 1029-1045.	2.9	696
7	Opposite effects of tolbutamide and diazoxide on the ATP-dependent K+ channel in mouse pancreatic ?-cells. Pflugers Archiv European Journal of Physiology, 1986, 407, 493-499.	1.3	545
8	Pancreatic Î²-Cell Electrical Activity and Insulin Secretion: Of Mice and Men. Physiological Reviews, 2018, 98, 117-214.	13.1	497
9	Regulation of Insulin Secretion in Human Pancreatic Islets. Annual Review of Physiology, 2013, 75, 155-179.	5.6	496
10	Glucose-inhibition of glucagon secretion involves activation of GABAA-receptor chloride channels. Nature, 1989, 341, 233-236.	13.7	453
11	Calcium-independent potentiation of insulin release by cyclic AMP in single Î²-cells. Nature, 1993, 363, 356-358.	13.7	365
12	Voltage-Gated Ion Channels in Human Pancreatic Î²-Cells: Electrophysiological Characterization and Role in Insulin Secretion. Diabetes, 2008, 57, 1618-1628.	0.3	362
13	Glucose dependent K+-channels in pancreatic?-cells are regulated by intracellular ATP. Pflugers Archiv European Journal of Physiology, 1985, 405, 305-309.	1.3	357
14	Calcium and delayed potassium currents in mouse pancreatic betaâ€cells under voltageâ€clamp conditions.. Journal of Physiology, 1986, 374, 531-550.	1.3	344
15	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.	1.4	343
16	Gene expression profiling in single cells from the pancreatic islets of Langerhans reveals lognormal distribution of mRNA levels. Genome Research, 2005, 15, 1388-1392.	2.4	337
17	Stimulation of insulin release by repaglinide and glibenclamide involves both common and distinct processes. Diabetes, 1998, 47, 345-351.	0.3	297
18	Glucose-sensing mechanisms in pancreatic Î²-cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2211-2225.	1.8	281

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19	The voltage sensitive Lc-type Ca2+ channel is functionally coupled to the exocytotic machinery. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 248-253.	3.3	273
20	Co-localization of L-type Ca2+ channels and insulin-containing secretory granules and its significance for the initiation of exocytosis in mouse pancreatic B-cells.. EMBO Journal, 1995, 14, 50-57.	3.5	270
21	Overexpression of Alpha2A-Adrenergic Receptors Contributes to Type 2 Diabetes. Science, 2010, 327, 217-220.	6.0	266
22	Protein kinase A-dependent and -independent stimulation of exocytosis by cAMP in mouse pancreatic B-cells. Journal of Physiology, 1997, 502, 105-118.	1.3	264
23	MicroRNA-7a regulates pancreatic Î² cell function. Journal of Clinical Investigation, 2014, 124, 2722-2735.	3.9	251
24	Exocytosis elicited by action potentials and voltageâ€clamp calcium currents in individual mouse pancreatic Bâ€cells.. Journal of Physiology, 1993, 472, 665-688.	1.3	250
25	The pancreatic beta-cell as a fuel sensor: an electrophysiologist's viewpoint. Diabetologia, 1997, 40, 487-495.	2.9	246
26	Glucose Inhibition of Glucagon Secretion From Rat Â-Cells Is Mediated by GABA Released From Neighboring Â-Cells. Diabetes, 2004, 53, 1038-1045.	0.3	246
27	Fast insulin secretion reflects exocytosis of docked granules in mouse pancreatic B-cells. Pflugers Archiv European Journal of Physiology, 2002, 444, 43-51.	1.3	245
28	Stimulus-secretion coupling in pancreatic Î² cells. Journal of Cellular Biochemistry, 1994, 55, 54-65.	1.2	234
29	SUR1 Regulates PKA-independent cAMP-induced Granule Priming in Mouse Pancreatic B-cells. Journal of General Physiology, 2003, 121, 181-197.	0.9	231
30	Cellular regulation of islet hormone secretion by the incretin hormone glucagon-like peptide 1. Pflugers Archiv European Journal of Physiology, 1998, 435, 583-594.	1.3	227
31	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.	7.2	225
32	Fast Exocytosis with Few Ca2+ Channels in Insulin-Secreting Mouse Pancreatic B Cells. Biophysical Journal, 2001, 81, 3308-3323.	0.2	223
33	Diabetes causes marked inhibition of mitochondrial metabolism in pancreatic Î²-cells. Nature Communications, 2019, 10, 2474.	5.8	223
34	KATP channels and islet hormone secretion: new insights and controversies. Nature Reviews Endocrinology, 2013, 9, 660-669.	4.3	221
35	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. Nature Communications, 2014, 5, 4639.	5.8	220
36	Regulation of PKD by the MAPK p38Î´ in Insulin Secretion and Glucose Homeostasis. Cell, 2009, 136, 235-248.	13.5	215

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37	Regulation of glucagon release in mouse Î±â€cells by K ATP channels and inactivation of TTXâ€sensitive Na + channels. Journal of Physiology, 2000, 528, 509-520.	1.3	211
38	Impaired insulin secretion and glucose tolerance in Â cell-selective CaV1.2 Ca2+ channel null mice. EMBO Journal, 2003, 22, 3844-3854.	3.5	205
39	Voltage-gated and resting membrane currents recorded from B-cells in intact mouse pancreatic islets. Journal of Physiology, 1999, 521, 717-728.	1.3	204
40	Reduced Insulin Exocytosis in Human Pancreatic Î²-Cells With Gene Variants Linked to Type 2 Diabetes. Diabetes, 2012, 61, 1726-1733.	0.3	204
41	A KATP Channel-Dependent Pathway within Î± Cells Regulates Glucagon Release from Both Rodent and Human Islets of Langerhans. PLoS Biology, 2007, 5, e143.	2.6	203
42	A Subset of 50 Secretory Granules in Close Contact With L-Type Ca2+ Channels Accounts for First-Phase Insulin Secretion in Mouse Â-Cells. Diabetes, 2002, 51, S74-S82.	0.3	196
43	Rapid ATP-Dependent Priming of Secretory Granules Precedes Ca2+-Induced Exocytosis in Mouse Pancreatic B-Cells. Journal of Physiology, 1997, 503, 399-412.	1.3	195
44	Tight coupling between electrical activity and exocytosis in mouse glucagon-secreting alpha-cells. Diabetes, 2000, 49, 1500-1510.	0.3	195
45	Regulation of calcium in pancreatic Î±- and Î²-cells in health and disease. Cell Calcium, 2012, 51, 300-308.	1.1	195
46	PKC-Dependent Stimulation of Exocytosis by Sulfonylureas in Pancreatic beta Cells. Science, 1996, 271, 813-815.	6.0	194
47	Activation of protein kinases and inhibition of protein phosphatases play a central role in the regulation of exocytosis in mouse pancreatic beta cells.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 4343-4347.	3.3	192
48	Î³-Aminobutyric Acid (GABA) Is an Autocrine Excitatory Transmitter in Human Pancreatic Î²-Cells. Diabetes, 2010, 59, 1694-1701.	0.3	190
49	Increased activity of L-type Ca2+ channels exposed to serum from patients with type I diabetes. Science, 1993, 261, 86-90.	6.0	186
50	Glucagon-Like Peptide 1(7-36) Amide Stimulates Exocytosis in Human Pancreatic Î²-Cells by Both Proximal and Distal Regulatory Steps in Stimulus-Secretion Coupling. Diabetes, 1998, 47, 57-65.	0.3	179
51	Role of KATP Channels in Glucose-Regulated Glucagon Secretion and Impaired Counterregulation in Type 2 Diabetes. Cell Metabolism, 2013, 18, 871-882.	7.2	179
52	Delay between Fusion Pore Opening and Peptide Release from Large Dense-Core Vesicles in Neuroendocrine Cells. Neuron, 2002, 33, 287-299.	3.8	176
53	The Cell Physiology of Biphasic Insulin Secretion. Physiology, 2000, 15, 72-77.	1.6	175
54	An atlas and functional analysis of G-protein coupled receptors in human islets of Langerhans. , 2013, 139, 359-391.		168

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55	Isoform-specific regulation of mood behavior and pancreatic Î² cell and cardiovascular function by L-type Ca2+ channels. Journal of Clinical Investigation, 2004, 113, 1430-1439.	3.9	168
56	Neurotransmitter-Induced Inhibition of Exocytosis in Insulin-Secreting Î² Cells by Activation of Calcineurin. Neuron, 1996, 17, 513-522.	3.8	166
57	Inhibition of ATP-regulated K+ channels precedes depolarization-induced increase in cytoplasmic free Ca2+ concentration in pancreatic beta-cells.. Journal of Biological Chemistry, 1987, 262, 5448-5454.	1.6	165
58	The somatostatin-secreting pancreatic Î´-cell in health and disease. Nature Reviews Endocrinology, 2018, 14, 404-414.	4.3	164
59	Priming of insulin granules for exocytosis by granular Clâˆ' uptake and acidification. Journal of Cell Science, 2001, 114, 2145-2154.	1.2	163
60	Novel aspects of the molecular mechanisms controlling insulin secretion. Journal of Physiology, 2008, 586, 3313-3324.	1.3	162
61	Regulation of glucagon secretion by glucose: paracrine, intrinsic or both?. Diabetes, Obesity and Metabolism, 2011, 13, 95-105.	2.2	160
62	Simultaneous recordings of glucose dependent electrical activity and ATP-regulated K+ -currents in isolated mouse pancreatic Î²-cells. FEBS Letters, 1990, 261, 187-190.	1.3	159
63	Adrenaline Stimulates Glucagon Secretion in Pancreatic A-Cells by Increasing the Ca2+ Current and the Number of Granules Close to the L-Type Ca2+ Channels. Journal of General Physiology, 1997, 110, 217-228.	0.9	159
64	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	3.9	153
65	Modulation of dihydropyridine-sensitive Ca2+ channels by glucose metabolism in mouse pancreatic Î² -cells. Nature, 1989, 342, 550-553.	13.7	149
66	GLP-1 stimulates insulin secretion by PKC-dependent TRPM4 and TRPM5 activation. Journal of Clinical Investigation, 2015, 125, 4714-4728.	3.9	145
67	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.	0.3	142
68	Priming of insulin granules for exocytosis by granular Cl(-) uptake and acidification. Journal of Cell Science, 2001, 114, 2145-54.	1.2	138
69	Capacitance measurements of exocytosis in mouse pancreatic Î±-, Î²- and Î´-cells within intact islets of Langerhans. Journal of Physiology, 2004, 556, 711-726.	1.3	137
70	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. Nature Communications, 2017, 8, 14733.	5.8	136
71	Inhibition of ATP-regulated K+ channels precedes depolarization-induced increase in cytoplasmic free Ca2+ concentration in pancreatic beta-cells. Journal of Biological Chemistry, 1987, 262, 5448-54.	1.6	135
72	Inositol trisphosphate-dependent periodic activation of a Ca2+-activated K+ conductance in glucose-stimulated pancreatic Î²-cells. Nature, 1991, 353, 849-852.	13.7	134

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73	Activation by adrenaline of a low-conductance G protein-dependent K+ channel in mouse pancreatic B cells. Nature, 1991, 349, 77-79.	13.7	133
74	Activation of Ca2+-Dependent K+ Channels Contributes to Rhythmic Firing of Action Potentials in Mouse Pancreatic Î² Cells. Journal of General Physiology, 1999, 114, 759-770.	0.9	131
75	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	7.2	131
76	Glucagon-Like Peptide I Increases Cytoplasmic Calcium in Insulin-Secreting Î²TC3-Cells by Enhancement of Intracellular Calcium Mobilization. Diabetes, 1995, 44, 767-774.	0.3	130
77	Patchâ€clamp characterisation of somatostatinâ€secreting Î´â€cells in intact mouse pancreatic islets. Journal of Physiology, 2000, 528, 497-507.	1.3	130
78	ATP-sensitive K+ channels: a link between B-cell metabolism and insulin secretion. Biochemical Society Transactions, 1990, 18, 109-111.	1.6	129
79	Selective nucleotide-release from dense-core granules in insulin-secreting cells. Journal of Cell Science, 2005, 118, 4271-4282.	1.2	129
80	Glutamate Acts as a Key Signal Linking Glucose Metabolism to Incretin/cAMP Action to Amplify Insulin Secretion. Cell Reports, 2014, 9, 661-673.	2.9	128
81	Release of small transmitters through kiss-and-run fusion pores in rat pancreatic Î² cells. Cell Metabolism, 2006, 4, 283-290.	7.2	127
82	Glucagon Stimulates Exocytosis in Mouse and Rat Pancreatic Î±-Cells by Binding to Glucagon Receptors. Molecular Endocrinology, 2005, 19, 198-212.	3.7	121
83	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.	1.8	119
84	Suppression of Insulin Release by Galanin and Somatostatin Is Meditated by a G-protein. Journal of Biological Chemistry, 1989, 264, 973-980.	1.6	119
85	Dual effects of glucose on the cytosolic Ca2+ activity of mouse pancreatic Î²-cells. FEBS Letters, 1984, 170, 196-200.	1.3	118
86	Regulated Exocytosis of GABA-containing Synaptic-like Microvesicles in Pancreatic Î²-cells. Journal of General Physiology, 2004, 123, 191-204.	0.9	118
87	Î´â€cells and Î²â€cells are electrically coupled and regulate Î±â€cell activity via somatostatin. Journal of Physiology, 2018, 596, 197-215.	1.3	117
88	Insulin inhibits glucagon release by SGLT2-induced stimulation of somatostatin secretion. Nature Communications, 2019, 10, 139.	5.8	117
89	Failure of Transplanted Bone Marrow Cells to Adopt a Pancreatic Â-Cell Fate. Diabetes, 2006, 55, 290-296.	0.3	112
90	Co-localization of L-type Ca2+ channels and insulin-containing secretory granules and its significance for the initiation of exocytosis in mouse pancreatic B-cells. EMBO Journal, 1995, 14, 50-7.	3.5	112

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91	Membrane Potential-Dependent Inactivation of Voltage-Gated Ion Channels in Î±-Cells Inhibits Glucagon Secretion From Human Islets. Diabetes, 2010, 59, 2198-2208.	0.3	110
92	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.	3.3	109
93	Failure of glucose to elicit a normal secretory response in fetal pancreatic beta cells results from glucose insensitivity of the ATP-regulated K+ channels.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 4505-4509.	3.3	108
94	Glucagon secretion from pancreatic Î±-cells. Upsala Journal of Medical Sciences, 2016, 121, 113-119.	0.4	108
95	Voltage-activated currents in guinea pig pancreatic alpha 2 cells. Evidence for Ca2+-dependent action potentials.. Journal of General Physiology, 1988, 91, 223-242.	0.9	105
96	Quantification of mRNA in single cells and modelling of RT-qPCR induced noise. BMC Molecular Biology, 2008, 9, 63.	3.0	104
97	Suppression of insulin release by galanin and somatostatin is mediated by a G-protein. An effect involving repolarization and reduction in cytoplasmic free Ca2+ concentration. Journal of Biological Chemistry, 1989, 264, 973-80.	1.6	104
98	Hormone-sensitive lipase, the rate-limiting enzyme in triglyceride hydrolysis, is expressed and active in beta-cells. Diabetes, 1999, 48, 228-232.	0.3	102
99	Single Ca channel currents in mouse pancreatic B-cells. Pflugers Archiv European Journal of Physiology, 1988, 412, 597-603.	1.3	101
100	Somatostatin inhibits exocytosis in rat pancreatic Î±â€cells by G i2 â€dependent activation of calcineurin and depriming of secretory granules. Journal of Physiology, 2001, 535, 519-532.	1.3	100
101	Glucagon-Like Peptide I and Glucose-Dependent Insulinotropic Polypeptide Stimulate Ca2+-Induced Secretion in Rat Î±-Cells by a Protein Kinase Aâ€"Mediated Mechanism. Diabetes, 1997, 46, 792-800.	0.3	99
102	Phosphatidylinositol 4-kinase serves as a metabolic sensor and regulates priming of secretory granules in pancreatic Â cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5187-5192.	3.3	96
103	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. Nature Genetics, 2019, 51, 1596-1606.	9.4	96
104	R-type Ca2+-channel-evoked CICR regulates glucose-induced somatostatin secretion. Nature Cell Biology, 2007, 9, 453-460.	4.6	95
105	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.	3.9	95
106	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.	0.9	94
107	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.	1.4	94
108	Cooling inhibits exocytosis in single mouse pancreatic Bâ€cells by suppression of granule mobilization.. Journal of Physiology, 1996, 494, 41-52.	1.3	92

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109	Multisite regulation of insulin secretion by cAMP-increasing agonists: evidence that glucagon-like peptide 1 and glucagon act via distinct receptors. Pflugers Archiv European Journal of Physiology, 1997, 434, 515-524.	1.3	92
110	Type 2 diabetes mellitus: not quite exciting enough?. Human Molecular Genetics, 2004, 13, 21R-31.	1.4	90
111	Hyperglycaemia induces metabolic dysfunction and glycogen accumulation in pancreatic Î²-cells. Nature Communications, 2016, 7, 13496.	5.8	90
112	Delayed rectifying and calcium-activated K+ channels and their significance for action potential repolarization in mouse pancreatic beta-cells.. Journal of General Physiology, 1990, 95, 1041-1059.	0.9	88
113	pVHL is a regulator of glucose metabolism and insulin secretion in pancreatic Î² cells. Genes and Development, 2008, 22, 3135-3146.	2.7	88
114	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.	1.3	88
115	Block of ATP-regulated and Ca2(+)-activated K+ channels in mouse pancreatic beta-cells by external tetraethylammonium and quinine.. Journal of Physiology, 1990, 423, 327-342.	1.3	87
116	Glucagon-Like Peptide-1: Regulation of Insulin Secretion and Therapeutic Potential. Basic and Clinical Pharmacology and Toxicology, 2004, 95, 252-262.	1.2	87
117	Synaptotagminâ€7 is a principal Ca²⁺ sensor for Ca²⁺â€induced glucagon exocytosis in pancreas. Journal of Physiology, 2009, 587, 1169-1178.	1.3	87
118	Muscle Dysfunction Caused by a K _{ATP} Channel Mutation in Neonatal Diabetes Is Neuronal in Origin. Science, 2010, 329, 458-461.	6.0	87
119	Electrophysiology of pancreatic Î²-cells in intact mouse islets of Langerhans. Progress in Biophysics and Molecular Biology, 2011, 107, 224-235.	1.4	87
120	KATP-channels and glucose-regulated glucagon secretion. Trends in Endocrinology and Metabolism, 2008, 19, 277-284.	3.1	86
121	CaM kinase II-dependent mobilization of secretory granules underlies acetylcholine-induced stimulation of exocytosis in mouse pancreatic B-cells. Journal of Physiology, 1999, 518, 745-759.	1.3	85
122	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.	0.3	85
123	Long-Term Exposure to Glucose and Lipids Inhibits Glucose-Induced Insulin Secretion Downstream of Granule Fusion With Plasma Membrane. Diabetes, 2007, 56, 1888-1897.	0.3	83
124	Autocrine regulation of insulin secretion. Diabetes, Obesity and Metabolism, 2012, 14, 143-151.	2.2	83
125	Somatostatin release, electrical activity, membrane currents and exocytosis in human pancreatic delta cells. Diabetologia, 2009, 52, 1566-1578.	2.9	81
126	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	3.9	81

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127	Stimulation of the KATP channel by ADP and diazoxide requires nucleotide hydrolysis in mouse pancreatic betaâ€cells.. Journal of Physiology, 1993, 463, 349-365.	1.3	80
128	Endocytosis of secretory granules in mouse pancreatic betaâ€cells evoked by transient elevation of cytosolic calcium.. Journal of Physiology, 1996, 493, 755-767.	1.3	79
129	Cellular function in multicellular system for hormone-secretion: electrophysiological aspect of studies on Î±-, Î²- and Î´-cells of the pancreatic islet. Neuroscience Research, 2002, 42, 79-90.	1.0	79
130	Glucoseâ€dependent regulation of rhythmic action potential firing in pancreatic Î²â€cells by kATPâ€channel modulation. Journal of Physiology, 2002, 545, 501-507.	1.3	79
131	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.	1.3	79
132	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.	1.3	79
133	Ca2+-induced Ca2+release in insulin-secreting cells. FEBS Letters, 1992, 296, 287-291.	1.3	78
134	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.	1.3	78
135	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.	2.9	74
136	RFX6 Regulates Insulin Secretion by Modulating Ca2+ Homeostasis in Human Î² Cells. Cell Reports, 2014, 9, 2206-2218.	2.9	73
137	Characterisation of sulphonylurea and ATP-regulated K+ channels in rat pancreatic A-cells. Pflugers Archiv European Journal of Physiology, 1999, 438, 428-436.	1.3	72
138	Î±-cell glucokinase suppresses glucose-regulated glucagon secretion. Nature Communications, 2018, 9, 546.	5.8	72
139	GLP-1 suppresses glucagon secretion in human pancreatic alpha-cells by inhibition of P/Q-type Ca²⁺ channels. Physiological Reports, 2018, 6, e13852.	0.7	71
140	CPT1a-Dependent Long-Chain Fatty Acid Oxidation Contributes to Maintaining Glucagon Secretion from Pancreatic Islets. Cell Reports, 2018, 23, 3300-3311.	2.9	71
141	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.	2.9	70
142	Ca2+ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. Journal of Clinical Investigation, 2017, 127, 2353-2364.	3.9	70
143	The First Î³-Carboxyglutamic Acid-containing Contryphan. Journal of Biological Chemistry, 2004, 279, 32453-32463.	1.6	69
144	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.	1.6	69

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145	The stimulatory action of tolbutamide on Ca2+-dependent exocytosis in pancreatic Â cells is mediated by a 65-kDa mdr-like P-glycoprotein. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5539-5544.	3.3	68
146	Oscillations, Intercellular Coupling, and Insulin Secretion in Pancreatic Î² Cells. PLoS Biology, 2006, 4, e49.	2.6	68
147	GABABreceptor activation inhibits exocytosis in rat pancreatic Î²-cells by G-protein-dependent activation of calcineurin. Journal of Physiology, 2004, 559, 397-409.	1.3	67
148	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.	2.9	66
149	CAPS1 and CAPS2 Regulate Stability and Recruitment of Insulin Granules in Mouse Pancreatic Î² Cells. Cell Metabolism, 2008, 7, 57-67.	7.2	65
150	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.	3.3	65
151	PYY plays a key role in the resolution of diabetes following bariatric surgery in humans. EBioMedicine, 2019, 40, 67-76.	2.7	65
152	Defective regulation of the cytosolic Ca2+ activity in parathyroid cells from patients with hyperparathyroidism. Bioscience Reports, 1984, 4, 909-915.	1.1	64
153	Effects of external tetraethylammonium ions and quinine on delayed rectifying K+ channels in mouse pancreatic beta-cells.. Journal of Physiology, 1990, 423, 311-325.	1.3	64
154	Ca(2+)â€•and GTPâ€dependent exocytosis in mouse pancreatic betaâ€cells involves both common and distinct steps.. Journal of Physiology, 1996, 496, 255-264.	1.3	64
155	Extracellular ATP increases cytoplasmic free Ca2+ concentration in clonal insulin-producing RINm5F cells. A mechanism involving direct interaction with both release and refilling of the inositol 1,4,5-trisphosphate-sensitive Ca2+ pool. Biochemical Journal, 1990, 265, 203-211.	1.7	63
156	Characterisation of sulphonylurea and ATP-regulated K + channels in rat pancreatic A-cells. Pflugers Archiv European Journal of Physiology, 1999, 438, 428-436.	1.3	63
157	Calcium increases endocytotic vesicle size and accelerates membrane fission in insulin-secreting INS-1 cells. Journal of Cell Science, 2005, 118, 5911-5920.	1.2	63
158	Regulated Exocytosis and Kiss-and-Run of Synaptic-Like Microvesicles in INS-1 and Primary Rat Â-Cells. Diabetes, 2005, 54, 736-743.	0.3	63
159	Progression of Diet-Induced Diabetes in C57BL6J Mice Involves Functional Dissociation of Ca2+ Channels From Secretory Vesicles. Diabetes, 2010, 59, 1192-1201.	0.3	63
160	Inhibition of glucose-stimulated insulin release by alpha 2-adrenoceptor activation is parallelled by both a repolarization and a reduction in cytoplasmic free Ca2+ concentration.. Journal of Biological Chemistry, 1988, 263, 1855-1860.	1.6	62
161	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic Î±-Cells. Diabetes, 2018, 67, 1128-1139.	0.3	61
162	Defective Secretion of Islet Hormones in Chromogranin-B Deficient Mice. PLoS ONE, 2010, 5, e8936.	1.1	61

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