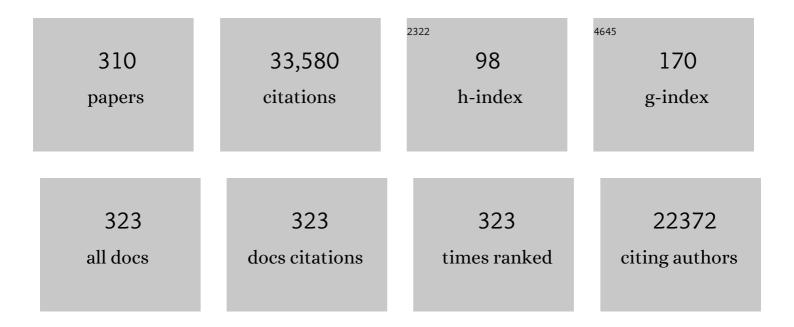
Patrik Rorsman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A pancreatic islet-specific microRNA regulates insulin secretion. Nature, 2004, 432, 226-230.	27.8	1,932
2	The Obesity-Associated <i>FTO</i> Gene Encodes a 2-Oxoglutarate-Dependent Nucleic Acid Demethylase. Science, 2007, 318, 1469-1472.	12.6	1,305
3	Electrophysiology of the pancreatic β-cell. Progress in Biophysics and Molecular Biology, 1989, 54, 87-143.	2.9	984
4	Diabetes Mellitus and the \hat{l}^2 Cell: The Last Ten Years. Cell, 2012, 148, 1160-1171.	28.9	761
5	<i>miR-375</i> maintains normal pancreatic α- and β-cell mass. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5813-5818.	7.1	710
6	Insulin granule dynamics in pancreatic beta cells. Diabetologia, 2003, 46, 1029-1045.	6.3	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.	2.8	545
8	Pancreatic β-Cell Electrical Activity and Insulin Secretion: Of Mice and Men. Physiological Reviews, 2018, 98, 117-214.	28.8	497
9	Regulation of Insulin Secretion in Human Pancreatic Islets. Annual Review of Physiology, 2013, 75, 155-179.	13.1	496
10	Glucose-inhibition of glucagon secretion involves activation of GABAA-receptor chloride channels. Nature, 1989, 341, 233-236.	27.8	453
11	Calcium-independent potentiation of insulin release by cyclic AMP in single β-cells. Nature, 1993, 363, 356-358.	27.8	365
12	Voltage-Gated Ion Channels in Human Pancreatic β-Cells: Electrophysiological Characterization and Role in Insulin Secretion. Diabetes, 2008, 57, 1618-1628.	0.6	362
13	Glucose dependent K+-channels in pancreatic?-cells are regulated by intracellular ATP. Pflugers Archiv European Journal of Physiology, 1985, 405, 305-309.	2.8	357
14	Calcium and delayed potassium currents in mouse pancreatic betaâ€cells under voltageâ€clamp conditions Journal of Physiology, 1986, 374, 531-550.	2.9	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.	2.8	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.	5.5	337
17	Stimulation of insulin release by repaglinide and glibenclamide involves both common and distinct processes Diabetes, 1998, 47, 345-351.	0.6	297
18	Glucose-sensing mechanisms in pancreatic β-cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2211-2225.	4.0	281

#	Article	IF	CITATIONS
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.	7.1	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.	7.8	270
21	Overexpression of Alpha2A-Adrenergic Receptors Contributes to Type 2 Diabetes. Science, 2010, 327, 217-220.	12.6	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.	2.9	264
23	MicroRNA-7a regulates pancreatic Î ² cell function. Journal of Clinical Investigation, 2014, 124, 2722-2735.	8.2	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.	2.9	250
25	The pancreatic beta-cell as a fuel sensor: an electrophysiologist's viewpoint. Diabetologia, 1997, 40, 487-495.	6.3	246
26	Glucose Inhibition of Glucagon Secretion From Rat α-Cells Is Mediated by GABA Released From Neighboring β-Cells. Diabetes, 2004, 53, 1038-1045.	0.6	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.	2.8	245
28	Stimulus-secretion coupling in pancreatic \hat{I}^2 cells. Journal of Cellular Biochemistry, 1994, 55, 54-65.	2.6	234
29	SUR1 Regulates PKA-independent cAMP-induced Granule Priming in Mouse Pancreatic B-cells. Journal of General Physiology, 2003, 121, 181-197.	1.9	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.	2.8	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.	16.2	225
32	Fast Exocytosis with Few Ca2+ Channels in Insulin-Secreting Mouse Pancreatic B Cells. Biophysical Journal, 2001, 81, 3308-3323.	0.5	223
33	Diabetes causes marked inhibition of mitochondrial metabolism in pancreatic \hat{I}^2 -cells. Nature Communications, 2019, 10, 2474.	12.8	223
34	KATP channels and islet hormone secretion: new insights and controversies. Nature Reviews Endocrinology, 2013, 9, 660-669.	9.6	221
35	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. Nature Communications, 2014, 5, 4639.	12.8	220
36	Regulation of PKD by the MAPK p38δin Insulin Secretion and Glucose Homeostasis. Cell, 2009, 136, 235-248.	28.9	215

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37	Regulation of glucagon release in mouse αâ€cells by K ATP channels and inactivation of TTXâ€sensitive Na + channels. Journal of Physiology, 2000, 528, 509-520.	2.9	211
38	Impaired insulin secretion and glucose tolerance in cell-selective CaV1.2 Ca2+ channel null mice. EMBO Journal, 2003, 22, 3844-3854.	7.8	205
39	Voltage-gated and resting membrane currents recorded from B-cells in intact mouse pancreatic islets. Journal of Physiology, 1999, 521, 717-728.	2.9	204
40	Reduced Insulin Exocytosis in Human Pancreatic β-Cells With Gene Variants Linked to Type 2 Diabetes. Diabetes, 2012, 61, 1726-1733.	0.6	204
41	A KATP Channel-Dependent Pathway within α Cells Regulates Glucagon Release from Both Rodent and Human Islets of Langerhans. PLoS Biology, 2007, 5, e143.	5.6	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.	0.6	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.	2.9	195
44	Tight coupling between electrical activity and exocytosis in mouse glucagon-secreting alpha-cells. Diabetes, 2000, 49, 1500-1510.	0.6	195
45	Regulation of calcium in pancreatic \hat{I}_{\pm} - and \hat{I}^2 -cells in health and disease. Cell Calcium, 2012, 51, 300-308.	2.4	195
46	PKC-Dependent Stimulation of Exocytosis by Sulfonylureas in Pancreatic beta Cells. Science, 1996, 271, 813-815.	12.6	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.	7.1	192
48	Î ³ -Aminobutyric Acid (GABA) Is an Autocrine Excitatory Transmitter in Human Pancreatic Î ² -Cells. Diabetes, 2010, 59, 1694-1701.	0.6	190
49	Increased activity of L-type Ca2+ channels exposed to serum from patients with type I diabetes. Science, 1993, 261, 86-90.	12.6	186
50	Glucagon-Like Peptide 1(7-36) Amide Stimulates Exocytosis in Human Pancreatic β-Cells by Both Proximal and Distal Regulatory Steps in Stimulus-Secretion Coupling. Diabetes, 1998, 47, 57-65.	0.6	179
51	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
52	Delay between Fusion Pore Opening and Peptide Release from Large Dense-Core Vesicles in Neuroendocrine Cells. Neuron, 2002, 33, 287-299.	8.1	176
53	The Cell Physiology of Biphasic Insulin Secretion. Physiology, 2000, 15, 72-77.	3.1	175
54	An atlas and functional analysis of G-protein coupled receptors in human islets of Langerhans. , 2013, 139, 359-391.		168

#	Article	IF	CITATIONS
55	Isoform-specific regulation of mood behavior and pancreatic β cell and cardiovascular function by L-type Ca2+ channels. Journal of Clinical Investigation, 2004, 113, 1430-1439.	8.2	168
56	Neurotransmitter-Induced Inhibition of Exocytosis in Insulin-Secreting \hat{I}^2 Cells by Activation of Calcineurin. Neuron, 1996, 17, 513-522.	8.1	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.	3.4	165
58	The somatostatin-secreting pancreatic δ-cell in health and disease. Nature Reviews Endocrinology, 2018, 14, 404-414.	9.6	164
59	Priming of insulin granules for exocytosis by granular Clâ^' uptake and acidification. Journal of Cell Science, 2001, 114, 2145-2154.	2.0	163
60	Novel aspects of the molecular mechanisms controlling insulin secretion. Journal of Physiology, 2008, 586, 3313-3324.	2.9	162
61	Regulation of glucagon secretion by glucose: paracrine, intrinsic or both?. Diabetes, Obesity and Metabolism, 2011, 13, 95-105.	4.4	160
62	Simultaneous recordings of glucose dependent electrical activity and ATP-regulated K+ -currents in isolated mouse pancreatic l²-cells. FEBS Letters, 1990, 261, 187-190.	2.8	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.	1.9	159
64	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	8.2	153
65	Modulation of dihydropyridine-sensitive Ca2+ channels by glucose metabolism in mouse pancreatic β -cells. Nature, 1989, 342, 550-553.	27.8	149
66	GLP-1 stimulates insulin secretion by PKC-dependent TRPM4 and TRPM5 activation. Journal of Clinical Investigation, 2015, 125, 4714-4728.	8.2	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.	0.6	142
68	Priming of insulin granules for exocytosis by granular Cl(-) uptake and acidification. Journal of Cell Science, 2001, 114, 2145-54.	2.0	138
69	Capacitance measurements of exocytosis in mouse pancreatic α-, β- and δ-cells within intact islets of Langerhans. Journal of Physiology, 2004, 556, 711-726.	2.9	137
70	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. Nature Communications, 2017, 8, 14733.	12.8	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.	3.4	135
72	Inositol trisphosphate-dependent periodic activation of a Ca2+-activated K+ conductance in glucose-stimulated pancreatic β-cells. Nature, 1991, 353, 849-852.	27.8	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.	27.8	133
74	Activation of Ca2+-Dependent K+ Channels Contributes to Rhythmic Firing of Action Potentials in Mouse Pancreatic Î ² Cells. Journal of General Physiology, 1999, 114, 759-770.	1.9	131
75	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	16.2	131
76	Glucagon-Like Peptide I Increases Cytoplasmic Calcium in Insulin-Secreting βTC3-Cells by Enhancement of Intracellular Calcium Mobilization. Diabetes, 1995, 44, 767-774.	0.6	130
77	Patchâ€clamp characterisation of somatostatinâ€secreting δâ€cells in intact mouse pancreatic islets. Journal of Physiology, 2000, 528, 497-507.	2.9	130
78	ATP-sensitive K+ channels: a link between B-cell metabolism and insulin secretion. Biochemical Society Transactions, 1990, 18, 109-111.	3.4	129
79	Selective nucleotide-release from dense-core granules in insulin-secreting cells. Journal of Cell Science, 2005, 118, 4271-4282.	2.0	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.	6.4	128
81	Release of small transmitters through kiss-and-run fusion pores in rat pancreatic Î ² cells. Cell Metabolism, 2006, 4, 283-290.	16.2	127
82	Glucagon Stimulates Exocytosis in Mouse and Rat Pancreatic α-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 β- and α-cells. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1107-E1116.	3.5	119
84	Suppression of Insulin Release by Galanin and Somatostatin Is Meditated by a G-protein. Journal of Biological Chemistry, 1989, 264, 973-980.	3.4	119
85	Dual effects of glucose on the cytosolic Ca2+ activity of mouse pancreatic β-cells. FEBS Letters, 1984, 170, 196-200.	2.8	118
86	Regulated Exocytosis of GABA-containing Synaptic-like Microvesicles in Pancreatic β-cells. Journal of General Physiology, 2004, 123, 191-204.	1.9	118
87	δâ€cells and βâ€cells are electrically coupled and regulate αâ€cell activity via somatostatin. Journal of Physiology, 2018, 596, 197-215.	2.9	117
88	Insulin inhibits glucagon release by SGLT2-induced stimulation of somatostatin secretion. Nature Communications, 2019, 10, 139.	12.8	117
89	Failure of Transplanted Bone Marrow Cells to Adopt a Pancreatic Â-Cell Fate. Diabetes, 2006, 55, 290-296.	0.6	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.	7.8	112

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91	Membrane Potential-Dependent Inactivation of Voltage-Gated Ion Channels in α-Cells Inhibits Glucagon Secretion From Human Islets. Diabetes, 2010, 59, 2198-2208.	0.6	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.	7.1	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.	7.1	108
94	Glucagon secretion from pancreatic \hat{l} ±-cells. Upsala Journal of Medical Sciences, 2016, 121, 113-119.	0.9	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.	1.9	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 C-protein. An effect involving repolarization and reduction in cytoplasmic free Ca2+ concentration. Journal of Biological Chemistry, 1989, 264, 973-80.	3.4	104
98	Hormone-sensitive lipase, the rate-limiting enzyme in triglyceride hydrolysis, is expressed and active in beta-cells. Diabetes, 1999, 48, 228-232.	0.6	102
99	Single Ca channel currents in mouse pancreatic B-cells. Pflugers Archiv European Journal of Physiology, 1988, 412, 597-603.	2.8	101
100	Somatostatin inhibits exocytosis in rat pancreatic αâ€cells by G i2 â€dependent activation of calcineurin and depriming of secretory granules. Journal of Physiology, 2001, 535, 519-532.	2.9	100
101	Glucagon-Like Peptide I and Glucose-Dependent Insulinotropic Polypeptide Stimulate Ca2+-Induced Secretion in Rat α-Cells by a Protein Kinase A–Mediated Mechanism. Diabetes, 1997, 46, 792-800.	0.6	99
102	Phosphatidylinositol 4-kinase serves as a metabolic sensor and regulates priming of secretory granules in pancreatic cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5187-5192.	7.1	96
103	Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. Nature Genetics, 2019, 51, 1596-1606.	21.4	96
104	R-type Ca2+-channel-evoked CICR regulates glucose-induced somatostatin secretion. Nature Cell Biology, 2007, 9, 453-460.	10.3	95
105	Expression of an activating mutation in the gene encoding the KATP channel subunit Kir6.2 in mouse pancreatic Î ² cells recapitulates neonatal diabetes. Journal of Clinical Investigation, 2009, 119, 80-90.	8.2	95
106	Corelease and Differential Exit via the Fusion Pore of GABA, Serotonin, and ATP from LDCV in Rat Pancreatic β Cells. Journal of General Physiology, 2007, 129, 221-231.	1.9	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.	2.9	94
108	Cooling inhibits exocytosis in single mouse pancreatic Bâ€cells by suppression of granule mobilization Journal of Physiology, 1996, 494, 41-52.	2.9	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.	2.8	92
110	Type 2 diabetes mellitus: not quite exciting enough?. Human Molecular Genetics, 2004, 13, 21R-31.	2.9	90
111	Hyperglycaemia induces metabolic dysfunction and glycogen accumulation in pancreatic β-cells. Nature Communications, 2016, 7, 13496.	12.8	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.	1.9	88
113	pVHL is a regulator of glucose metabolism and insulin secretion in pancreatic β cells. Genes and Development, 2008, 22, 3135-3146.	5.9	88
114	The insulinogenic effect of whey protein is partially mediated by a direct effect of amino acids and GIP on β-cells. Nutrition and Metabolism, 2012, 9, 48.	3.0	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.	2.9	87
116	Clucagon-Like Peptide-1: Regulation of Insulin Secretion and Therapeutic Potential. Basic and Clinical Pharmacology and Toxicology, 2004, 95, 252-262.	2.5	87
117	Synaptotagminâ€7 is a principal Ca ²⁺ sensor for Ca ²⁺ â€induced glucagon exocytosis in pancreas. Journal of Physiology, 2009, 587, 1169-1178.	2.9	87
118	Muscle Dysfunction Caused by a K _{ATP} Channel Mutation in Neonatal Diabetes Is Neuronal in Origin. Science, 2010, 329, 458-461.	12.6	87
119	Electrophysiology of pancreatic β-cells in intact mouse islets of Langerhans. Progress in Biophysics and Molecular Biology, 2011, 107, 224-235.	2.9	87
120	KATP-channels and glucose-regulated glucagon secretion. Trends in Endocrinology and Metabolism, 2008, 19, 277-284.	7.1	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.	2.9	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.	0.6	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.	0.6	83
124	Autocrine regulation of insulin secretion. Diabetes, Obesity and Metabolism, 2012, 14, 143-151.	4.4	83
125	Somatostatin release, electrical activity, membrane currents and exocytosis in human pancreatic delta cells. Diabetologia, 2009, 52, 1566-1578.	6.3	81
126	CaV2.3 calcium channels control second-phase insulin release. Journal of Clinical Investigation, 2005, 115, 146-154.	8.2	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.	2.9	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.	2.9	79
129	Cellular function in multicellular system for hormone-secretion: electrophysiological aspect of studies on $\hat{1}_{\pm}$, $\hat{1}_{\pm}$ and $\hat{1}_{\pm}$ cells of the pancreatic islet. Neuroscience Research, 2002, 42, 79-90.	1.9	79
130	Glucoseâ€dependent regulation of rhythmic action potential firing in pancreatic β ells by kATP hannel modulation. Journal of Physiology, 2002, 545, 501-507.	2.9	79
131	Palmitate increases L-type Ca2+currents and the size of the readily releasable granule pool in mouse pancreatic β-cells. Journal of Physiology, 2004, 557, 935-948.	2.9	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.	2.5	79
133	Ca2+-induced Ca2+release in insulin-secreting cells. FEBS Letters, 1992, 296, 287-291.	2.8	78
134	Na ⁺ current properties in islet α―and βâ€cells reflect cellâ€specific <i>Scn3a</i> and <i>Scn9a</i> expression. Journal of Physiology, 2014, 592, 4677-4696.	2.9	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.	6.3	74
136	RFX6 Regulates Insulin Secretion by Modulating Ca2+ Homeostasis in Human \hat{I}^2 Cells. Cell Reports, 2014, 9, 2206-2218.	6.4	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.	2.8	72
138	α-cell glucokinase suppresses glucose-regulated glucagon secretion. Nature Communications, 2018, 9, 546.	12.8	72
139	GLP-1 suppresses glucagon secretion in human pancreatic alpha-cells by inhibition of P/Q-type Ca ²⁺ channels. Physiological Reports, 2018, 6, e13852.	1.7	71
140	CPT1a-Dependent Long-Chain Fatty Acid Oxidation Contributes to Maintaining Glucagon Secretion from Pancreatic Islets. Cell Reports, 2018, 23, 3300-3311.	6.4	71
141	PYY-Dependent Restoration of Impaired Insulin and Clucagon Secretion in Type 2 Diabetes following Roux-En-Y Gastric Bypass Surgery. Cell Reports, 2016, 15, 944-950.	6.4	70
142	Ca2+ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. Journal of Clinical Investigation, 2017, 127, 2353-2364.	8.2	70
143	The First γ-Carboxyglutamic Acid-containing Contryphan. Journal of Biological Chemistry, 2004, 279, 32453-32463.	3.4	69
144	Cell coupling in mouse pancreatic β-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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145	Isoform-specific regulation of mood behavior and pancreatic \hat{I}^2 cell and cardiovascular function by L-type Ca2+ channels. Journal of Clinical Investigation, 2004, 113, 1430-1439.	8.2	69
146	The stimulatory action of tolbutamide on Ca2+-dependent exocytosis in pancreatic 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.	7.1	68
147	Oscillations, Intercellular Coupling, and Insulin Secretion in Pancreatic β Cells. PLoS Biology, 2006, 4, e49.	5.6	68
148	GABABreceptor activation inhibits exocytosis in rat pancreatic β-cells by G-protein-dependent activation of calcineurin. Journal of Physiology, 2004, 559, 397-409.	2.9	67
149	AP2σ 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
150	CAPS1 and CAPS2 Regulate Stability and Recruitment of Insulin Granules in Mouse Pancreatic \hat{l}^2 Cells. Cell Metabolism, 2008, 7, 57-67.	16.2	65
151	Synaptotagmin-7 phosphorylation mediates GLP-1–dependent potentiation of insulin secretion from β-cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9996-10001.	7.1	65
152	PYY plays a key role in the resolution of diabetes following bariatric surgery in humans. EBioMedicine, 2019, 40, 67-76.	6.1	65
153	Defective regulation of the cytosolic Ca2+ activity in parathyroid cells from patients with hyperparathyroidism. Bioscience Reports, 1984, 4, 909-915.	2.4	64
154	Effects of external tetraethylammonium ions and quinine on delayed rectifying K+ channels in mouse pancreatic beta-cells Journal of Physiology, 1990, 423, 311-325.	2.9	64
155	Ca(2+)―and GTPâ€dependent exocytosis in mouse pancreatic betaâ€cells involves both common and distinct steps Journal of Physiology, 1996, 496, 255-264.	2.9	64
156	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.	3.7	63
157	Characterisation of sulphonylurea and ATP-regulated K + channels in rat pancreatic A-cells. Pflugers Archiv European Journal of Physiology, 1999, 438, 428-436.	2.8	63
158	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
159	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
160	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
161	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.	3.4	62
162	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic α-Cells. Diabetes, 2018, 67, 1128-1139.	0.6	61

#	Article	IF	CITATIONS
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