

Patrick Gilon

List of Publications by Citations

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51
papers

2,828
citations

28
h-index

52
g-index

52
ext. papers

3,191
ext. citations

5.8
avg. IF

5.03
L-index

#	Paper	IF	Citations
51	Mechanisms and physiological significance of the cholinergic control of pancreatic beta-cell function. <i>Endocrine Reviews</i> , 2001 , 22, 565-604	27.2	397
50	Loss of high-frequency glucose-induced Ca ²⁺ oscillations in pancreatic islets correlates with impaired glucose tolerance in Trpm5 ^{-/-} mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5208-13	11.5	150
49	Interplay between cytoplasmic Ca ²⁺ and the ATP/ADP ratio: a feedback control mechanism in mouse pancreatic islets. <i>Biochemical Journal</i> , 1998 , 333 (Pt 2), 269-74	3.8	147
48	Tissue-specific disallowance of housekeeping genes: the other face of cell differentiation. <i>Genome Research</i> , 2011 , 21, 95-105	9.7	143
47	Control mechanisms of the oscillations of insulin secretion in vitro and in vivo. <i>Diabetes</i> , 2002 , 51 Suppl 1, S144-51	0.9	129
46	Calcium signaling in pancreatic β cells in health and in Type 2 diabetes. <i>Cell Calcium</i> , 2014 , 56, 340-61	4	125
45	The mitochondrial Ca ²⁺ uniporter MCU is essential for glucose-induced ATP increases in pancreatic β cells. <i>PLoS ONE</i> , 2012 , 7, e39722	3.7	122
44	Uptake and release of Ca ²⁺ by the endoplasmic reticulum contribute to the oscillations of the cytosolic Ca ²⁺ concentration triggered by Ca ²⁺ influx in the electrically excitable pancreatic B-cell. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20197-205	5.4	101
43	Influence of cell number on the characteristics and synchrony of Ca ²⁺ oscillations in clusters of mouse pancreatic islet cells. <i>Journal of Physiology</i> , 1999 , 520 Pt 3, 839-49	3.9	93
42	Steviol glycosides enhance pancreatic beta-cell function and taste sensation by potentiation of TRPM5 channel activity. <i>Nature Communications</i> , 2017 , 8, 14733	17.4	88
41	Glucose-induced mixed [Ca ²⁺] _c oscillations in mouse beta-cells are controlled by the membrane potential and the SERCA3 Ca ²⁺ -ATPase of the endoplasmic reticulum. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C1503-11	5.4	88
40	AMPK activation by glucagon-like peptide-1 prevents NADPH oxidase activation induced by hyperglycemia in adult cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1120-33	5.2	85
39	SERCA3 ablation does not impair insulin secretion but suggests distinct roles of different sarcoendoplasmic reticulum Ca(2+) pumps for Ca(2+) homeostasis in pancreatic beta-cells. <i>Diabetes</i> , 2002 , 51, 3245-53	0.9	75
38	Emptying of intracellular Ca ²⁺ stores stimulates Ca ²⁺ entry in mouse pancreatic beta-cells by both direct and indirect mechanisms. <i>Journal of Physiology</i> , 1997 , 503 (Pt 2), 387-98	3.9	72
37	Glucose regulation of glucagon secretion. <i>Diabetes Research and Clinical Practice</i> , 2014 , 103, 1-10	7.4	70
36	Tolbutamide controls glucagon release from mouse islets differently than glucose: involvement of K(ATP) channels from both β cells and δ cells. <i>Diabetes</i> , 2013 , 62, 1612-22	0.9	69
35	The GluCre-ROSA26EYFP mouse: a new model for easy identification of living pancreatic alpha-cells. <i>FEBS Letters</i> , 2007 , 581, 4235-40	3.8	68

34	Mechanisms of control of the free Ca ²⁺ concentration in the endoplasmic reticulum of mouse pancreatic β cells: interplay with cell metabolism and [Ca ²⁺] _c and role of SERCA2b and SERCA3. <i>Diabetes</i> , 2011 , 60, 2533-45	0.9	67
33	Glucose and pharmacological modulators of ATP-sensitive K ⁺ channels control [Ca ²⁺] _c by different mechanisms in isolated mouse alpha-cells. <i>Diabetes</i> , 2009 , 58, 412-21	0.9	61
32	Frequency-dependent mitochondrial Ca(2+) accumulation regulates ATP synthesis in pancreatic β cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2013 , 465, 543-54	4.6	59
31	UCP2 regulates the glucagon response to fasting and starvation. <i>Diabetes</i> , 2013 , 62, 1623-33	0.9	56
30	Feedback control of the ATP-sensitive K(+) current by cytosolic Ca(2+) contributes to oscillations of the membrane potential in pancreatic beta-cells. <i>Diabetes</i> , 2002 , 51, 376-84	0.9	48
29	Sodium-myoinositol cotransporter-1, SMIT1, mediates the production of reactive oxygen species induced by hyperglycemia in the heart. <i>Scientific Reports</i> , 2017 , 7, 41166	4.9	43
28	SERCA2 Deficiency Impairs Pancreatic β Cell Function in Response to Diet-Induced Obesity. <i>Diabetes</i> , 2016 , 65, 3039-52	0.9	42
27	Identification of islet-enriched long non-coding RNAs contributing to β cell failure in type 2 diabetes. <i>Molecular Metabolism</i> , 2017 , 6, 1407-1418	8.8	41
26	Contribution of the endoplasmic reticulum to the glucose-induced [Ca(2+)] _c response in mouse pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 282, E982-91	6	40
25	In situ electrophysiological examination of pancreatic β cells in the streptozotocin-induced diabetes model, revealing the cellular basis of glucagon hypersecretion. <i>Diabetes</i> , 2013 , 62, 519-30	0.9	39
24	Impaired Store-Operated Calcium Entry and STIM1 Loss Lead to Reduced Insulin Secretion and Increased Endoplasmic Reticulum Stress in the Diabetic β Cell. <i>Diabetes</i> , 2018 , 67, 2293-2304	0.9	28
23	Pancreatic and duodenal homeobox protein 1 (Pdx-1) maintains endoplasmic reticulum calcium levels through transcriptional regulation of sarco-endoplasmic reticulum calcium ATPase 2b (SERCA2b) in the islet β cell. <i>Journal of Biological Chemistry</i> , 2014 , 289, 32798-810	5.4	28
22	Inter-domain tagging implicates caveolin-1 in insulin receptor trafficking and Erk signaling bias in pancreatic beta-cells. <i>Molecular Metabolism</i> , 2016 , 5, 366-378	8.8	27
21	Atypical Ca ²⁺ -induced Ca ²⁺ release from a sarco-endoplasmic reticulum Ca ²⁺ -ATPase 3-dependent Ca ²⁺ pool in mouse pancreatic beta-cells. <i>Journal of Physiology</i> , 2004 , 559, 141-56	3.9	26
20	Somatostatin Is Only Partly Required for the Glucagonostatic Effect of Glucose but Is Necessary for the Glucagonostatic Effect of K Channel Blockers. <i>Diabetes</i> , 2018 , 67, 2239-2253	0.9	23
19	Okadaic acid-induced decrease in the magnitude and efficacy of the Ca ²⁺ signal in pancreatic beta cells and inhibition of insulin secretion. <i>British Journal of Pharmacology</i> , 1998 , 123, 97-105	8.6	22
18	The Role of β Cells in Islet Function and Glucose Homeostasis in Health and Type 2 Diabetes. <i>Journal of Molecular Biology</i> , 2020 , 432, 1367-1394	6.5	21
17	Immunocytochemical localisation of GABA in endocrine cells of the rat entero-pancreatic system. <i>Biology of the Cell</i> , 1988 , 62, 265-273	3.5	19

16	NALCN: a regulated leak channel. <i>EMBO Reports</i> , 2009 , 10, 963-4	6.5	18
15	Inhibition of aquaporin-1 prevents myocardial remodeling by blocking the transmembrane transport of hydrogen peroxide. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	18
14	TALK-1 channels control cell endoplasmic reticulum Ca homeostasis. <i>Science Signaling</i> , 2017 , 10,	8.8	17
13	SGLT2 is not expressed in pancreatic β and δ cells, and its inhibition does not directly affect glucagon and insulin secretion in rodents and humans. <i>Molecular Metabolism</i> , 2020 , 42, 101071	8.8	13
12	How stable is repression of disallowed genes in pancreatic islets in response to metabolic stress?. <i>PLoS ONE</i> , 2017 , 12, e0181651	3.7	11
11	Glucose Acutely Reduces Cytosolic and Mitochondrial HO in Rat Pancreatic Beta Cells. <i>Antioxidants and Redox Signaling</i> , 2019 , 30, 297-313	8.4	10
10	Cocaine- and amphetamine-regulated transcript: a novel regulator of energy homeostasis expressed in a subpopulation of pancreatic islet cells. <i>Diabetologia</i> , 2016 , 59, 1855-9	10.3	8
9	Metallothionein 1 negatively regulates glucose-stimulated insulin secretion and is differentially expressed in conditions of beta cell compensation and failure in mice and humans. <i>Diabetologia</i> , 2019 , 62, 2273-2286	10.3	5
8	Can Tea Extracts Exert a Protective Effect Against Diabetes by Reducing Oxidative Stress and Decreasing Glucotoxicity in Pancreatic β Cells?. <i>Diabetes and Metabolism Journal</i> , 2015 , 39, 27-30	5	4
7	K channel blockers control glucagon secretion by distinct mechanisms: A direct stimulation of β cells involving a $[Ca]$ rise and an indirect inhibition mediated by somatostatin. <i>Molecular Metabolism</i> , 2021 , 53, 101268	8.8	4
6	Paracrine nitric oxide induces expression of cardiac sarcomeric proteins in adult progenitor cells through soluble guanylyl cyclase/cyclic-guanosine monophosphate and Wnt/ β catenin inhibition. <i>Cardiovascular Research</i> , 2016 , 112, 478-90	9.9	3
5	Physiological and Pathophysiological Control of Glucagon Secretion by Pancreatic β Cells 2014 , 1-69		2
4	Physiological and Pathophysiological Control of Glucagon Secretion by Pancreatic β Cells 2015 , 175-247		1
3	β -Hydroxybutyrate does not mediate glucose inhibition of glucagon secretion. <i>Journal of Biological Chemistry</i> , 2020 , 295, 5419-5426	5.4	1
2	LDHA is enriched in human islet α cells and upregulated in type 2 diabetes. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 568, 158-166	3.4	1
1	Glucose inhibits glucagon secretion by decreasing $[Ca]$ and by reducing the efficacy of Ca on exocytosis via somatostatin-dependent and independent mechanisms.. <i>Molecular Metabolism</i> , 2022 , 101495	8.8	0