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Pancreatic beta cell heterogeneity in glucose-induced insulin secretion

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#	Paper	IF	Citations
99	Muscarinic modulation of insulin secretion by single pancreatic beta-cells. <i>Molecular and Cellular Endocrinology</i> , 1993 , 93, 63-9	4.4	18
98	B-cell size influences glucose-stimulated insulin secretion. <i>American Journal of Physiology - Cell Physiology</i> , 1993 , 265, C358-64	5.4	50
97	The Incretin Notion and its Relevance to Diabetes. <i>Endocrinology and Metabolism Clinics of North America</i> , 1993 , 22, 775-794	5.5	59
96	Physiologic relevance of heterogeneity in the pancreatic beta-cell population. <i>Diabetologia</i> , 1994 , 37 Suppl 2, S57-64	10.3	120
95	IDDM: an islet or an immune disease?. <i>Diabetologia</i> , 1994 , 37 Suppl 2, S90-8	10.3	15
94	Pancreatic islet B-cell individual variability rather than subpopulation heterogeneity. <i>Molecular and Cellular Endocrinology</i> , 1996 , 118, 163-71	4.4	10
93	Quantitative subcellular imaging of glucose metabolism within intact pancreatic islets. <i>Journal of Biological Chemistry</i> , 1996 , 271, 3647-51	5.4	165
92	Ultrastructural and secretory heterogeneity of fa/fa (Zucker) rat islets. <i>Molecular and Cellular Endocrinology</i> , 1998 , 136, 119-29	4.4	13
91	Ultrastructural evaluation of B-cell recruitment in virgin and pregnant offspring of diabetic mothers. <i>Diabetes Research and Clinical Practice</i> , 1998 , 41, 9-14	7.4	13
90	Effect of glucose on production and release of proinsulin conversion products by cultured human islets. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998 , 83, 1234-8	5.6	7
89	Glucose-induced pulsatile insulin release from single islets at stable and oscillatory cytoplasmic Ca ²⁺ . <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998 , 274, E796-800	6	20
88	Real-time Analysis of Glucose Metabolism by Microscopy. <i>Trends in Endocrinology and Metabolism</i> , 1999 , 10, 413-417	8.8	37
87	Pathophysiology of impaired pulsatile insulin release. <i>Diabetes/Metabolism Research and Reviews</i> , 2000 , 16, 179-91	7.5	49
86	Expression profiling of pancreatic beta cells: glucose regulation of secretory and metabolic pathway genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 5773-8	11.5	148
85	Progesterone increases mRNA levels of pituitary adenylate cyclase-activating polypeptide (PACAP) and type I PACAP receptor (PAC(1)) in the rat hypothalamus. <i>Molecular Brain Research</i> , 2000 , 78, 59-68		31
84	Glucose-mediated Ca ²⁺ signalling in single clonal insulin-secreting cells: evidence for a mixed model of cellular activation. <i>International Journal of Biochemistry and Cell Biology</i> , 2000 , 32, 557-69	5.6	12
83	Ethanol decreases basal insulin secretion from HIT-T15 cells. <i>Life Sciences</i> , 2002 , 70, 1989-97	6.8	10

82	Co-ordinated Ca(2+)-signalling within pancreatic islets: does beta-cell entrainment require a secreted messenger. <i>Cell Calcium</i> , 2002 , 31, 209-19	4	25
81	Insights to the minimal model of insulin secretion through a mean-field beta cell model. <i>Journal of Theoretical Biology</i> , 2005 , 237, 382-9	2.3	6
80	Heterogeneity in distribution of amyloid-positive islets in type-2 diabetic patients. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2005 , 446, 232-8	5.1	6
79	Pituitary adenylate cyclase activating polypeptide messenger RNA in the paraventricular nucleus and anterior pituitary during the rat estrous cycle. <i>Biology of Reproduction</i> , 2005 , 73, 491-9	3.9	38
78	Mathematical beta cell model for insulin secretion following IVGTT and OGTT. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1343-54	4.7	17
77	Prevention of adhesion and promotion of pseudoislets formation from a beta-cell line by fluorocarbon emulsions. <i>ChemBioChem</i> , 2006 , 7, 1160-3	3.8	23
76	Metabolic activation of glucose low-responsive beta-cells by glyceraldehyde correlates with their biosynthetic activation in lower glucose concentration range but not at high glucose. <i>Endocrinology</i> , 2006 , 147, 5196-204	4.8	9
75	Specificity in beta cell expression of L-3-hydroxyacyl-CoA dehydrogenase, short chain, and potential role in down-regulating insulin release. <i>Journal of Biological Chemistry</i> , 2007 , 282, 21134-44	5.4	30
74	Phantom bursting is highly sensitive to noise and unlikely to account for slow bursting in beta-cells: considerations in favor of metabolically driven oscillations. <i>Journal of Theoretical Biology</i> , 2007 , 248, 391-400	2.3	16
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72	PKCepsilon mediates glucose-regulated insulin production in pancreatic beta-cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 1929-34	4.9	6
71	Pancreatic beta-cell purification by altering FAD and NAD(P)H metabolism. <i>Experimental Diabetes Research</i> , 2008 , 2008, 165360		35
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69	Maturation of adult beta-cells revealed using a Pdx1/insulin dual-reporter lentivirus. <i>Endocrinology</i> , 2009 , 150, 1627-35	4.8	56
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64	Reduction of diffusion barriers in isolated rat islets improves survival, but not insulin secretion or transplantation outcome. <i>Organogenesis</i> , 2010 , 6, 115-24	1.7	55
63	Gap junctions and other mechanisms of cell-cell communication regulate basal insulin secretion in the pancreatic islet. <i>Journal of Physiology</i> , 2011 , 589, 5453-66	3.9	106
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61	Overcoming the spatial barriers of the stimulus secretion cascade in pancreatic β -cells. <i>Islets</i> , 2012 , 4, 1-116	2	20
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59	Sensitive and specific time-resolved fluorescence immunoassay of rat C-peptide for measuring hormone secretory and storage capacity of β -cells in vivo and in vitro. <i>Endocrinology</i> , 2013 , 154, 1934-9	4.8	3
58	Intrinsic islet heterogeneity and gap junction coupling determine spatiotemporal Ca^{2+} wave dynamics. <i>Biophysical Journal</i> , 2014 , 107, 2723-33	2.9	56
57	Cellular communication and heterogeneity in pancreatic islet insulin secretion dynamics. <i>Trends in Endocrinology and Metabolism</i> , 2014 , 25, 399-406	8.8	103
56	Decreasing cx36 gap junction coupling compensates for overactive KATP channels to restore insulin secretion and prevent hyperglycemia in a mouse model of neonatal diabetes. <i>Diabetes</i> , 2014 , 63, 1685-97	0.9	18
55	The relationship between node degree and dissipation rate in networks of diffusively coupled oscillators and its significance for pancreatic beta cells. <i>Chaos</i> , 2015 , 25, 073115	3.3	22
54	Progressive glucose stimulation of islet beta cells reveals a transition from segregated to integrated modular functional connectivity patterns. <i>Scientific Reports</i> , 2015 , 5, 7845	4.9	45
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51	Physiology: Pancreatic β -cell heterogeneity revisited. <i>Nature</i> , 2016 , 535, 365-6	50.4	15
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49	Single-Cell Mass Cytometry Analysis of the Human Endocrine Pancreas. <i>Cell Metabolism</i> , 2016 , 24, 616-626	14.6	104
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47	Impact of islet architecture on β -cell heterogeneity, plasticity and function. <i>Nature Reviews Endocrinology</i> , 2016 , 12, 695-709	15.2	105

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45	All mixed up: defining roles for β -cell subtypes in mature islets. <i>Genes and Development</i> , 2017 , 31, 228-240	2.6	43
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11	Microtubules regulate pancreatic beta cell heterogeneity via spatiotemporal control of insulin secretion hot spots.		0

10	Small subpopulations of β -cells do not drive islet oscillatory $[Ca^{2+}]$ dynamics via gap junction communication.		1
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6	What Does It Take to Make a Beta Cell?. 2010 , 137-152		
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