

Alejandro Caicedo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

4,380
citations

33
h-index

66
g-index

67
ext. papers

5,078
ext. citations

9.8
avg. IF

5.42
L-index

#	Paper	IF	Citations
61	The unique cytoarchitecture of human pancreatic islets has implications for islet cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2334-9	11.5	888
60	Innervation patterns of autonomic axons in the human endocrine pancreas. <i>Cell Metabolism</i> , 2011 , 14, 45-54	24.6	233
59	Noninvasive in vivo imaging of pancreatic islet cell biology. <i>Nature Medicine</i> , 2008 , 14, 574-8	50.5	211
58	Alpha cells secrete acetylcholine as a non-neuronal paracrine signal priming beta cell function in humans. <i>Nature Medicine</i> , 2011 , 17, 888-92	50.5	201
57	A novel method for the assessment of cellular composition and beta-cell viability in human islet preparations. <i>American Journal of Transplantation</i> , 2005 , 5, 1635-45	8.7	174
56	Glutamate is a positive autocrine signal for glucagon release. <i>Cell Metabolism</i> , 2008 , 7, 545-54	24.6	146
55	Blood-derived macrophages infiltrate the retina and activate Muller glial cells under experimental choroidal neovascularization. <i>Experimental Eye Research</i> , 2005 , 81, 38-47	3.7	125
54	Bone marrow-derived progenitor cells contribute to experimental choroidal neovascularization. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 4914-9		124
53	Noninvasive high-resolution in vivo imaging of cell biology in the anterior chamber of the mouse eye. <i>Nature Protocols</i> , 2008 , 3, 1278-86	18.8	120
52	Paracrine and autocrine interactions in the human islet: more than meets the eye. <i>Seminars in Cell and Developmental Biology</i> , 2013 , 24, 11-21	7.5	119
51	Coordination of hypothalamic and pituitary T3 production regulates TSH expression. <i>Journal of Clinical Investigation</i> , 2013 , 123, 1492-500	15.9	111
50	Individual mouse taste cells respond to multiple chemical stimuli. <i>Journal of Physiology</i> , 2002 , 544, 501-93.9		107
49	Control of insulin secretion by cholinergic signaling in the human pancreatic islet. <i>Diabetes</i> , 2014 , 63, 2714-26	0.9	97
48	ATP-gated P2X3 receptors constitute a positive autocrine signal for insulin release in the human pancreatic beta cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6465-70	11.5	97
47	Human Beta Cells Produce and Release Serotonin to Inhibit Glucagon Secretion from Alpha Cells. <i>Cell Reports</i> , 2016 , 17, 3281-3291	10.6	90
46	Glutamate receptor phenotypes in the auditory brainstem and mid-brain of the developing rat. <i>European Journal of Neuroscience</i> , 1999 , 11, 51-74	3.5	89
45	Paracrine Interactions within the Pancreatic Islet Determine the Glycemic Set Point. <i>Cell Metabolism</i> , 2018 , 27, 549-558.e4	24.6	88

44	Donor islet endothelial cells in pancreatic islet revascularization. <i>Diabetes</i> , 2011 , 60, 2571-7	0.9	87
43	In situ Ca ²⁺ imaging reveals neurotransmitter receptors for glutamate in taste receptor cells. <i>Journal of Neuroscience</i> , 2000 , 20, 7978-85	6.6	83
42	Role of the G-protein subunit alpha-gustducin in taste cell responses to bitter stimuli. <i>Journal of Neuroscience</i> , 2003 , 23, 9947-52	6.6	81
41	The Pericyte of the Pancreatic Islet Regulates Capillary Diameter and Local Blood Flow. <i>Cell Metabolism</i> , 2018 , 27, 630-644.e4	24.6	79
40	Noninvasive in vivo model demonstrating the effects of autonomic innervation on pancreatic islet function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21456-61	11.5	75
39	High-resolution, noninvasive longitudinal live imaging of immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12863-8	11.5	74
38	Neural control of the endocrine pancreas. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2014 , 28, 745-56	6.5	73
37	Young capillary vessels rejuvenate aged pancreatic islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17612-7	11.5	68
36	Quantitative enumeration of vascular smooth muscle cells and endothelial cells derived from bone marrow precursors in experimental choroidal neovascularization. <i>Experimental Eye Research</i> , 2005 , 80, 369-78	3.7	62
35	Distribution of calcium-binding protein immunoreactivities in the guinea pig auditory brainstem. <i>Anatomy and Embryology</i> , 1996 , 194, 465-87		56
34	Mouse pancreatic islet macrophages use locally released ATP to monitor beta cell activity. <i>Diabetologia</i> , 2018 , 61, 182-192	10.3	51
33	Transient Ca ²⁺ -permeable AMPA receptors in postnatal rat primary auditory neurons. <i>European Journal of Neuroscience</i> , 2004 , 20, 2981-9	3.5	50
32	Liraglutide Compromises Pancreatic β Cell Function in a Humanized Mouse Model. <i>Cell Metabolism</i> , 2016 , 23, 541-6	24.6	49
31	Automated, High-Throughput Assays for Evaluation of Human Pancreatic Islet Function. <i>Cell Transplantation</i> , 2007 , 16, 1039-1048	4	42
30	Errestin-2 is an essential regulator of pancreatic β cell function under physiological and pathophysiological conditions. <i>Nature Communications</i> , 2017 , 8, 14295	17.4	40
29	Resealable, optically accessible, PDMS-free fluidic platform for ex vivo interrogation of pancreatic islets. <i>Lab on A Chip</i> , 2017 , 17, 772-781	7.2	35
28	Imaging cyclic AMP changes in pancreatic islets of transgenic reporter mice. <i>PLoS ONE</i> , 2008 , 3, e2127	3.7	28
27	Glutamate-induced Co ²⁺ uptake in rat auditory brainstem neurons reveals developmental changes in Ca ²⁺ permeability of glutamate receptors. <i>European Journal of Neuroscience</i> , 1998 , 10, 941-54	3.5	27

26	Neurotransmitters act as paracrine signals to regulate insulin secretion from the human pancreatic islet. <i>Journal of Physiology</i> , 2014 , 592, 3413-7	3.9	24
25	Pancreas tissue slices from organ donors enable in situ analysis of type 1 diabetes pathogenesis. <i>JCI Insight</i> , 2020 , 5,	9.9	24
24	Mechanism and effects of pulsatile GABA secretion from cytosolic pools in the human beta cell. <i>Nature Metabolism</i> , 2019 , 1, 1110-1126	14.6	23
23	Spatial and temporal coordination of insulin granule exocytosis in intact human pancreatic islets. <i>Diabetologia</i> , 2015 , 58, 2810-8	10.3	22
22	The Local Paracrine Actions of the Pancreatic β Cell. <i>Diabetes</i> , 2020 , 69, 550-558	0.9	22
21	Beta cell dysfunction in diabetes: the islet microenvironment as an unusual suspect. <i>Diabetologia</i> , 2020 , 63, 2076-2085	10.3	21
20	Real-time detection of acetylcholine release from the human endocrine pancreas. <i>Nature Protocols</i> , 2012 , 7, 1015-23	18.8	19
19	In vivo imaging of kidney glomeruli transplanted into the anterior chamber of the mouse eye. <i>Scientific Reports</i> , 2014 , 4, 3872	4.9	18
18	Secretory Functions of Macrophages in the Human Pancreatic Islet Are Regulated by Endogenous Purinergic Signaling. <i>Diabetes</i> , 2020 , 69, 1206-1218	0.9	17
17	Long-term culture of human pancreatic slices as a model to study real-time islet regeneration. <i>Nature Communications</i> , 2020 , 11, 3265	17.4	17
16	Pancreatic β Cells Communicate With Vagal Sensory Neurons. <i>Gastroenterology</i> , 2021 , 160, 875-888.e11	13.3	14
15	Rat gustatory neurons in the geniculate ganglion express glutamate receptor subunits. <i>Chemical Senses</i> , 2004 , 29, 463-71	4.8	12
14	In vivo imaging of type 1 diabetes immunopathology using eye-transplanted islets in NOD mice. <i>Diabetologia</i> , 2019 , 62, 1237-1250	10.3	11
13	Antisense oligonucleotides to the GluR2 AMPA receptor subunit modify excitatory synaptic transmission in vivo. <i>Molecular Brain Research</i> , 1998 , 55, 151-64		11
12	Regulator of G-protein signaling GB-R7 is a crucial activator of muscarinic M3 receptor-stimulated insulin secretion. <i>FASEB Journal</i> , 2017 , 31, 4734-4744	0.9	9
11	Glutamate-induced cobalt uptake reveals non-NMDA receptors in developing rat taste buds. <i>NeuroReport</i> , 2001 , 12, 1715-8	1.7	8
10	Blood Flow in the Pancreatic Islet: Not so Isolated Anymore. <i>Diabetes</i> , 2020 , 69, 1336-1338	0.9	7
9	Confocal Imaging of Neuropeptide Y-pHluorin: A Technique to Visualize Insulin Granule Exocytosis in Intact Murine and Human Islets. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	5

8	Deciphering the Complex Communication Networks That Orchestrate Pancreatic Islet Function. <i>Diabetes</i> , 2021 , 70, 17-26	0.9	4
7	Limited extent and consequences of pancreatic SARS-CoV-2 infection.. <i>Cell Reports</i> , 2022 , 110508	10.6	4
6	Optical Imaging of Pancreatic Innervation. <i>Frontiers in Endocrinology</i> , 2021 , 12, 663022	5.7	3
5	A Nervous Breakdown that May Stop Autoimmune Diabetes. <i>Cell Metabolism</i> , 2020 , 31, 215-216	24.6	1
4	Angiotensin-Receptor-Associated Protein Modulates Ca Signals in Photoreceptor and Mossy Fiber cells. <i>Scientific Reports</i> , 2019 , 9, 19622	4.9	1
3	Glucagon Resistance and Decreased Susceptibility to Diabetes in a Model of Chronic Hyperglucagonemia. <i>Diabetes</i> , 2021 , 70, 477-491	0.9	1
2	Targeting the Pancreatic β Cell to Prevent Hypoglycemia in Type 1 Diabetes. <i>Diabetes</i> , 2021 , 70, 2721-2732	2.9	1
1	Regulator of G-protein signaling Gbeta5-R7 is a crucial activator of muscarinic M3 receptor-stimulated insulin secretion. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, PO2-7-34	0	1