Alejandro Caicedo

List of Publications by Year
in descending order

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Version: 2024-02-01

63 papers	5,601 citations	101535 36 h-index	123420 61 g-index
67 all docs	67 docs citations	67 times ranked	5533 citing authors

#	Article	IF	Citations
1	The unique cytoarchitecture of human pancreatic islets has implications for islet cell function. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2334-2339.	7.1	1,054
2	Innervation Patterns of Autonomic Axons in the Human Endocrine Pancreas. Cell Metabolism, 2011, 14, 45-54.	16.2	288
3	Alpha cells secrete acetylcholine as a non-neuronal paracrine signal priming beta cell function in humans. Nature Medicine, 2011, 17, 888-892.	30.7	258
4	Noninvasive in vivo imaging of pancreatic islet cell biology. Nature Medicine, 2008, 14, 574-578.	30.7	239
5	A Novel Method for the Assessment of Cellular Composition and Beta-Cell Viability in Human Islet Preparations. American Journal of Transplantation, 2005, 5, 1635-1645.	4.7	189
6	Glutamate Is a Positive Autocrine Signal for Glucagon Release. Cell Metabolism, 2008, 7, 545-554.	16.2	186
7	Paracrine and autocrine interactions in the human islet: More than meets the eye. Seminars in Cell and Developmental Biology, 2013, 24, 11-21.	5.0	155
8	Paracrine Interactions within the Pancreatic Islet Determine the Glycemic Set Point. Cell Metabolism, 2018, 27, 549-558.e4.	16.2	150
9	Noninvasive high-resolution in vivo imaging of cell biology in the anterior chamber of the mouse eye. Nature Protocols, 2008, 3, 1278-1286.	12.0	146
10	Human Beta Cells Produce and Release Serotonin to Inhibit Glucagon Secretion from Alpha Cells. Cell Reports, 2016, 17, 3281-3291.	6.4	146
11	Blood-derived macrophages infiltrate the retina and activate Muller glial cells under experimental choroidal neovascularization. Experimental Eye Research, 2005, 81, 38-47.	2.6	141
12	The Pericyte of the Pancreatic Islet Regulates Capillary Diameter and Local Blood Flow. Cell Metabolism, 2018, 27, 630-644.e4.	16.2	135
13	Coordination of hypothalamic and pituitary T3 production regulates TSH expression. Journal of Clinical Investigation, 2013, 123, 1492-1500.	8.2	133
14	Bone Marrow-Derived Progenitor Cells Contribute to Experimental Choroidal Neovascularization. , 2003, 44, 4914.		129
15	Control of Insulin Secretion by Cholinergic Signaling in the Human Pancreatic Islet. Diabetes, 2014, 63, 2714-2726.	0.6	123
16	Individual mouse taste cells respond to multiple chemical stimuli. Journal of Physiology, 2002, 544, 501-509.	2.9	119
17	ATP-gated P2X ₃ receptors constitute a positive autocrine signal for insulin release in the human pancreatic Î² cell. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6465-6470.	7.1	113
18	Donor Islet Endothelial Cells in Pancreatic Islet Revascularization. Diabetes, 2011, 60, 2571-2577.	0.6	103

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19	Noninvasive in vivo model demonstrating the effects of autonomic innervation on pancreatic islet function. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21456-21461.	7.1	102
20	Role of the G-Protein Subunit Î±-Gustducin in Taste Cell Responses to Bitter Stimuli. Journal of Neuroscience, 2003, 23, 9947-9952.	3.6	93
21	Neural control of the endocrine pancreas. Best Practice and Research in Clinical Endocrinology and Metabolism, 2014, 28, 745-756.	4.7	93
22	Glutamate receptor phenotypes in the auditory brainstem and mid-brain of the developing rat. European Journal of Neuroscience, 1999, 11, 51-74.	2.6	91
23	In SituCa²⁺Imaging Reveals Neurotransmitter Receptors for Glutamate in Taste Receptor Cells. Journal of Neuroscience, 2000, 20, 7978-7985.	3.6	86
24	High-resolution, noninvasive longitudinal live imaging of immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12863-12868.	7.1	81
25	Young capillary vessels rejuvenate aged pancreatic islets. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17612-17617.	7.1	79
26	Mouse pancreatic islet macrophages use locally released ATP to monitor beta cell activity. Diabetologia, 2018, 61, 182-192.	6.3	74
27	Quantitative enumeration of vascular smooth muscle cells and endothelial cells derived from bone marrow precursors in experimental choroidal neovascularization. Experimental Eye Research, 2005, 80, 369-378.	2.6	71
28	Liraglutide Compromises Pancreatic Î² Cell Function in a Humanized Mouse Model. Cell Metabolism, 2016, 23, 541-546.	16.2	67
29	Î²-arrestin-2 is an essential regulator of pancreatic Î²-cell function under physiological and pathophysiological conditions. Nature Communications, 2017, 8, 14295.	12.8	63
30	Distribution of calcium-binding protein immunoreactivities in the guinea pig auditory brainstem. Anatomy and Embryology, 1996, 194, 465-87.	1.5	61
31	Mechanism and effects of pulsatile GABA secretion from cytosolic pools in the human beta cell. Nature Metabolism, 2019, 1, 1110-1126.	11.9	59
32	Transient Ca2+-permeable AMPA receptors in postnatal rat primary auditory neurons. European Journal of Neuroscience, 2004, 20, 2981-2989.	2.6	58
33	Pancreas tissue slices from organ donors enable in situ analysis of type 1 diabetes pathogenesis. JCI Insight, 2020, 5, .	5.0	53
34	Resealable, optically accessible, PDMS-free fluidic platform for ex vivo interrogation of pancreatic islets. Lab on A Chip, 2017, 17, 772-781.	6.0	52
35	Automated, High-Throughput Assays for Evaluation of Human Pancreatic Islet Function. Cell Transplantation, 2007, 16, 1039-1048.	2.5	50
36	Beta cell dysfunction in diabetes: the islet microenvironment as an unusual suspect. Diabetologia, 2020, 63, 2076-2085.	6.3	48

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37	Pancreatic Î²-Cells Communicate With Vagal Sensory Neurons. Gastroenterology, 2021, 160, 875-888.e11.	1.3	47
38	The Local Paracrine Actions of the Pancreatic Î±-Cell. Diabetes, 2020, 69, 550-558.	0.6	42
39	Limited extent and consequences of pancreatic SARS-CoV-2 infection. Cell Reports, 2022, 38, 110508.	6.4	36
40	Long-term culture of human pancreatic slices as a model to study real-time islet regeneration. Nature Communications, 2020, 11, 3265.	12.8	34
41	Neurotransmitters act as paracrine signals to regulate insulin secretion from the human pancreatic islet. Journal of Physiology, 2014, 592, 3413-3417.	2.9	31
42	Imaging Cyclic AMP Changes in Pancreatic Islets of Transgenic Reporter Mice. PLoS ONE, 2008, 3, e2127.	2.5	31
43	Spatial and temporal coordination of insulin granule exocytosis in intact human pancreatic islets. Diabetologia, 2015, 58, 2810-2818.	6.3	30
44	Secretory Functions of Macrophages in the Human Pancreatic Islet Are Regulated by Endogenous Purinergic Signaling. Diabetes, 2020, 69, 1206-1218.	0.6	29
45	Glutamate-induced Co2+uptake in rat auditory brainstem neurons reveals developmental changes in Ca2+permeability of glutamate receptors. European Journal of Neuroscience, 1998, 10, 941-954.	2.6	27
46	Real-time detection of acetylcholine release from the human endocrine pancreas. Nature Protocols, 2012, 7, 1015-1023.	12.0	23
47	Deciphering the Complex Communication Networks That Orchestrate Pancreatic Islet Function. Diabetes, 2021, 70, 17-26.	0.6	21
48	In vivo imaging of type 1 diabetes immunopathology using eye-transplanted islets in NOD mice. Diabetologia, 2019, 62, 1237-1250.	6.3	20
49	In vivo imaging of kidney glomeruli transplanted into the anterior chamber of the mouse eye. Scientific Reports, 2015, 4, 3872.	3.3	19
50	Rat Gustatory Neurons in the Geniculate Ganglion Express Glutamate Receptor Subunits. Chemical Senses, 2004, 29, 463-471.	2.0	17
51	Blood Flow in the Pancreatic Islet: Not so Isolated Anymore. Diabetes, 2020, 69, 1336-1338.	0.6	14
52	Antisense oligonucleotides to the GluR2 AMPA receptor subunit modify excitatory synaptic transmission in vivo. Molecular Brain Research, 1998, 55, 151-164.	2.3	13
53	Regulator of Gâ€protein signaling GÎ²5â€R7 is a crucial activator of muscarinic M3 receptorâ€stimulated insulin secretion. FASEB Journal, 2017, 31, 4734-4744.	0.5	13
54	Glucagon Resistance and Decreased Susceptibility to Diabetes in a Model of Chronic Hyperglucagonemia. Diabetes, 2021, 70, 477-491.	0.6	13

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55	Optical Imaging of Pancreatic Innervation. Frontiers in Endocrinology, 2021, 12, 663022.	3.5	13
56	Pericyte Control of Blood Flow in Intraocular Islet Grafts Impacts Glucose Homeostasis in Mice. Diabetes, 2022, 71, 1679-1693.	0.6	10
57	Targeting the Pancreatic Î±-Cell to Prevent Hypoglycemia in Type 1 Diabetes. Diabetes, 2021, 70, 2721-2732.	0.6	9
58	Glutamate-induced cobalt uptake reveals non-NMDA receptors in developing rat taste buds. NeuroReport, 2001, 12, 1715-1718.	1.2	8
59	Confocal Imaging of Neuropeptide Y-pHluorin: A Technique to Visualize Insulin Granule Exocytosis in Intact Murine and Human Islets. Journal of Visualized Experiments, 2017, , .	0.3	7
60	Angiotensin-Receptor-Associated Protein Modulates Ca2+ Signals in Photoreceptor and Mossy Fiber cells. Scientific Reports, 2019, 9, 19622.	3.3	2
61	A Nervous Breakdown that May Stop Autoimmune Diabetes. Cell Metabolism, 2020, 31, 215-216.	16.2	1
62	Real Time In Vivo Tracking of Thymocytes in the Anterior Chamber of the Eye by Laser Scanning Microscopy. Journal of Visualized Experiments, 2018, , .	0.3	0
63	Regulator of G-protein signaling Gbeta5-R7 is a crucial activator of muscarinic M3 receptor-stimulated insulin secretion. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-7-34.	0.0	0