Quan Zhang

List of Publications by Year in descending order

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		186265	254184
43	3,447	28	43
papers	citations	h-index	g-index

45	45	45	3779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulation of Î±â€cell glucagon secretion: The role of second messengers. Chronic Diseases and Translational Medicine, 2022, 8, 7-18.	1.2	5
2	Acetyl-CoA-carboxylase 1 (ACC1) plays a critical role in glucagon secretion. Communications Biology, 2022, 5, 238.	4.4	8
3	Transcriptome analysis revealed CENPF associated with glioma prognosis. Mathematical Biosciences and Engineering, 2021, 18, 2077-2096.	1.9	5
4	Temporal metabolic and transcriptomic characteristics crossing islets and liver reveal dynamic pathophysiology in diet-induced diabetes. IScience, 2021, 24, 102265.	4.1	11
5	Î´-Cells: The Neighborhood Watch in the Islet Community. Biology, 2021, 10, 74.	2.8	19
6	Potentially Critical Roles ofNDUFB5,TIMMDC1,and VDAC3in the Progression of Septic Cardiomyopathy Through Integrated Bioinformatics Analysis. DNA and Cell Biology, 2020, 39, 105-117.	1.9	12
7	â€˜Resistance is futile?â€™ â€“ paradoxical inhibitory effects of K ATP channel closure in glucagonâ€secreting Î±â€cells. Journal of Physiology, 2020, 598, 4765-4780.	2.9	16
8	Exosomal miR-548c-5p Regulates Colorectal Cancer Cell Growth and Invasion Through HIF1A/CDC42 Axis . OncoTargets and Therapy, 2020, Volume 13, 9875-9885.	2.0	11
9	Somatostatin secretion by Na+-dependent Ca2+-induced Ca2+ release in pancreatic delta cells. Nature Metabolism, 2020, 2, 32-40.	11.9	26
10	â€œTake Me To Your Leaderâ€: An Electrophysiological Appraisal of the Role of Hub Cells in Pancreatic Islets. Diabetes, 2020, 69, 830-836.	0.6	50
11	Gs/Gq signaling switch in Î² cells defines incretin effectiveness in diabetes. Journal of Clinical Investigation, 2020, 130, 6639-6655.	8.2	46
12	Glucose stimulates somatostatin secretion in pancreatic Î´-cells by cAMP-dependent intracellular Ca2+ release. Journal of General Physiology, 2019, 151, 1094-1115.	1.9	19
13	miR-657 Promotes Macrophage Polarization toward M1 by Targeting FAM46C in Gestational Diabetes Mellitus. Mediators of Inflammation, 2019, 2019, 1-9.	3.0	27
14	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. Cell Metabolism, 2019, 29, 430-442.e4.	16.2	57
15	Insulin inhibits glucagon release by SGLT2-induced stimulation of somatostatin secretion. Nature Communications, 2019, 10, 139.	12.8	117
16	Biphasic voltageâ€dependent inactivation of human Na_V1.3, 1.6 and 1.7 Na⁺ channels expressed in rodent insulinâ€secreting cells. Journal of Physiology, 2018, 596, 1601-1626.	2.9	6
17	Î±-cell glucokinase suppresses glucose-regulated glucagon secretion. Nature Communications, 2018, 9, 546.	12.8	72
18	Adrenaline Stimulates Glucagon Secretion by Tpc2-Dependent Ca2+ Mobilization From Acidic Stores in Pancreatic Î±-Cells. Diabetes, 2018, 67, 1128-1139.	0.6	61

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19	GLP-1 suppresses glucagon secretion in human pancreatic alpha-cells by inhibition of P/Q-type Ca²⁺ channels. Physiological Reports, 2018, 6, e13852.	1.7	71
20	Modulation of large dense core vesicle insulin content mediates rhythmic hormone release from pancreatic beta cells over the 24h cycle. PLoS ONE, 2018, 13, e0193882.	2.5	3
21	Functional identification of islet cell types by electrophysiological fingerprinting. Journal of the Royal Society Interface, 2017, 14, 20160999.	3.4	45
22	Fumarate Hydratase Deletion in Pancreatic Î² Cells Leads to Progressive Diabetes. Cell Reports, 2017, 20, 3135-3148.	6.4	57
23	Mutant Mice With Calcium-Sensing Receptor Activation Have Hyperglycemia That Is Rectified by Calcilytic Therapy. Endocrinology, 2017, 158, 2486-2502.	2.8	31
24	Glucagon secretion from pancreatic Î±-cells. Upsala Journal of Medical Sciences, 2016, 121, 113-119.	0.9	108
25	Alpha-, Delta- and PP-cells. Journal of Histochemistry and Cytochemistry, 2015, 63, 575-591.	2.5	147
26	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Endolysosomal Two-pore Channels Modulate Membrane Excitability and Stimulus-Secretion Coupling in Mouse Pancreatic Î² Cells. Journal of Biological Chemistry, 2015, 290, 21376-21392.	3.4	48
27	Reversible changes in pancreatic islet structure and function produced by elevated blood glucose. Nature Communications, 2014, 5, 4639.	12.8	220
28	Matthias Braun, 23 July 1966â€“16 November 2013. Diabetologia, 2014, 57, 2431-2432.	6.3	0
29	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
30	Na⁺ current properties in islet Î±â€•and Î²â€cells reflect cellâ€specific Scn3a and Scn9a expression. Journal of Physiology, 2014, 592, 4677-4696.	2.9	78
31	MicroRNA-7a regulates pancreatic Î² cell function. Journal of Clinical Investigation, 2014, 124, 2722-2735.	8.2	251
32	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
33	Regulation of calcium in pancreatic Î±- and Î²-cells in health and disease. Cell Calcium, 2012, 51, 300-308.	2.4	195
34	Electrophysiology of pancreatic Î²-cells in intact mouse islets of Langerhans. Progress in Biophysics and Molecular Biology, 2011, 107, 224-235.	2.9	87
35	Membrane Potential-Dependent Inactivation of Voltage-Gated Ion Channels in Î±-Cells Inhibits Glucagon Secretion From Human Islets. Diabetes, 2010, 59, 2198-2208.	0.6	110
36	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

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37	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
38	Synaptotagminâ€7 is a principal Ca²⁺ sensor for Ca²⁺â€induced glucagon exocytosis in pancreas. Journal of Physiology, 2009, 587, 1169-1178.	2.9	87
39	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	16.2	131
40	Voltage-Gated Ion Channels in Human Pancreatic Î²-Cells: Electrophysiological Characterization and Role in Insulin Secretion. Diabetes, 2008, 57, 1618-1628.	0.6	362
41	Cell coupling in mouse pancreatic Î²-cells measured in intact islets of Langerhans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3503-3523.	3.4	69
42	R-type Ca2+-channel-evoked CICR regulates glucose-induced somatostatin secretion. Nature Cell Biology, 2007, 9, 453-460.	10.3	95
43	Capacitance measurements of exocytosis in mouse pancreatic Î±-, Î²- and Î´-cells within intact islets of Langerhans. Journal of Physiology, 2004, 556, 711-726.	2.9	137