

Claes B Wollheim

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,940
citations

279487

23
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

4807
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial glutamate acts as a messenger in glucose-induced insulin exocytosis. <i>Nature</i> , 1999, 402, 685-689.	13.7	462
2	Global genomic and transcriptomic analysis of human pancreatic islets reveals novel genes influencing glucose metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13924-13929.	3.3	407
3	Oxidative stress and calcium dysregulation by palmitate in type 2 diabetes. <i>Experimental and Molecular Medicine</i> , 2017, 49, e291-e291.	3.2	248
4	Sulforaphane reduces hepatic glucose production and improves glucose control in patients with type 2 diabetes. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	240
5	Secreted Frizzled-Related Protein 4 Reduces Insulin Secretion and Is Overexpressed in Type 2 Diabetes. <i>Cell Metabolism</i> , 2012, 16, 625-633.	7.2	166
6	TCF7L2 is a master regulator of insulin production and processing. <i>Human Molecular Genetics</i> , 2014, 23, 6419-6431.	1.4	166
7	Overexpression of monocarboxylate transporter and lactate dehydrogenase alters insulin secretory responses to pyruvate and lactate in β^2 cells. <i>Journal of Clinical Investigation</i> , 1999, 104, 1621-1629.	3.9	165
8	Mitochondrial signals drive insulin secretion in the pancreatic β^2 -cell. <i>Molecular and Cellular Endocrinology</i> , 2012, 353, 128-137.	1.6	122
9	Preserving Insulin Secretion in Diabetes by Inhibiting VDAC1 Overexpression and Surface Translocation in β^2 Cells. <i>Cell Metabolism</i> , 2019, 29, 64-77.e6.	7.2	100
10	Identification of novel genes for glucose metabolism based upon expression pattern in human islets and effect on insulin secretion and glycemia. <i>Human Molecular Genetics</i> , 2015, 24, 1945-1955.	1.4	89
11	The Fas pathway is involved in pancreatic beta cell secretory function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2861-2866.	3.3	83
12	Time-resolved metabolomics analysis of β^2 -cells implicates the pentose phosphate pathway in the control of insulin release. <i>Biochemical Journal</i> , 2013, 450, 595-605.	1.7	82
13	Elevated miR-130a/miR130b/miR-152 expression reduces intracellular ATP levels in the pancreatic beta cell. <i>Scientific Reports</i> , 2017, 7, 44986.	1.6	64
14	Essential Role of Mitochondrial Ca ²⁺ Uniporter in the Generation of Mitochondrial pH Gradient and Metabolism-Secretion Coupling in Insulin-releasing Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 4086-4096.	1.6	60
15	Dopamine regulates pancreatic glucagon and insulin secretion via adrenergic and dopaminergic receptors. <i>Translational Psychiatry</i> , 2021, 11, 59.	2.4	50
16	Mitochondrial oxidative stress mediates high-phosphate-induced secretory defects and apoptosis in insulin-secreting cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E933-E941.	1.8	49
17	Reduction of plasma membrane glutamate transport potentiates insulin but not glucagon secretion in pancreatic islet cells. <i>Molecular and Cellular Endocrinology</i> , 2011, 338, 46-57.	1.6	36
18	Activation of the unfolded protein response pathway causes ceramide accumulation in yeast and INS-1E insulinoma cells. <i>Journal of Lipid Research</i> , 2012, 53, 412-420.	2.0	36

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19	Sulforaphane improves disrupted ER-mitochondria interactions and suppresses exaggerated hepatic glucose production. <i>Molecular and Cellular Endocrinology</i> , 2018, 461, 205-214.	1.6	36
20	Potential Protection Against Type 2 Diabetes in Obesity Through Lower CD36 Expression and Improved Exocytosis in β -Cells. <i>Diabetes</i> , 2020, 69, 1193-1205.	0.3	34
21	Mitochondrial Dysfunction Contributes to Impaired Insulin Secretion in INS-1 Cells with Dominant-negative Mutations of HNF-1 β and in HNF-1 β -deficient Islets. <i>Journal of Biological Chemistry</i> , 2009, 284, 16808-16821.	1.6	27
22	Inhibition of the malate-aspartate shuttle in mouse pancreatic islets abolishes glucagon secretion without affecting insulin secretion. <i>Biochemical Journal</i> , 2015, 468, 49-63.	1.7	27
23	Transcriptional Regulation of X-Box-binding Protein One (XBP1) by Hepatocyte Nuclear Factor 4 β (HNF4 β) Is Vital to Beta-cell Function. <i>Journal of Biological Chemistry</i> , 2016, 291, 6146-6157.	1.6	25
24	Augmented mitochondrial energy metabolism is an early response to chronic glucose stress in human pancreatic beta cells. <i>Diabetologia</i> , 2020, 63, 2628-2640.	2.9	24
25	Silencing of the FTO gene inhibits insulin secretion: An in vitro study using GRINCH cells. <i>Molecular and Cellular Endocrinology</i> , 2018, 472, 10-17.	1.6	23
26	Pathophysiology of type 2 diabetes and the impact of altered metabolic interorgan crosstalk. <i>FEBS Journal</i> , 2023, 290, 620-648.	2.2	22
27	Insulin Release during Fasting: Studies on Adenylate Cyclase, Phosphodiesterase, Protein Kinase, and Phosphoprotein Phosphatase in Isolated Islets of Langerhans of the Rat*. <i>Endocrinology</i> , 1979, 105, 702-707.	1.4	21
28	Microbial signals to the brain control weight. <i>Nature</i> , 2016, 534, 185-187.	13.7	21
29	Glutamine-Elicited Secretion of Glucagon-Like Peptide 1 Is Governed by an Activated Glutamate Dehydrogenase. <i>Diabetes</i> , 2018, 67, 372-384.	0.3	20
30	Excess maternal transmission of variants in the THADA gene to offspring with type 2 diabetes. <i>Diabetologia</i> , 2016, 59, 1702-1713.	2.9	19
31	Intracellular alkalinization by phosphate uptake via type III sodium-phosphate cotransporter participates in high-phosphate-induced mitochondrial oxidative stress and defective insulin secretion. <i>FASEB Journal</i> , 2016, 30, 3979-3988.	0.2	16