

Isabelle Leclerc

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,217
citations

147801

31
h-index

155660

55
g-index

84
all docs

84
docs citations

84
times ranked

4023
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of 5â€²-AMP-activated protein kinase (AMPK) in mammalian glucose homeostasis. <i>Biochemical Journal</i> , 2003, 375, 1-16.	3.7	310
2	Role for AMP-activated protein kinase in glucose-stimulated insulin secretion and preproinsulin gene expression. <i>Biochemical Journal</i> , 2003, 371, 761-774.	3.7	253
3	Role of AMP-activated protein kinase in the regulation by glucose of islet beta cell gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4023-4028.	7.1	195
4	Loss of Brain Volume in Endogenous Cushingâ€™s Syndrome and Its Reversibility after Correction of Hypercortisolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 1949-1954.	3.6	175
5	Metformin, but not leptin, regulates AMP-activated protein kinase in pancreatic islets: impact on glucose-stimulated insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E1023-E1031.	3.5	150
6	Leader Î²-cells coordinate Ca ²⁺ dynamics across pancreatic islets in vivo. <i>Nature Metabolism</i> , 2019, 1, 615-629.	11.9	128
7	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. <i>Journal of Clinical Investigation</i> , 2004, 114, 339-348.	8.2	126
8	The 5â€²-AMP-activated protein kinase inhibits the transcriptional stimulation by glucose in liver cells, acting through the glucose response complex. <i>FEBS Letters</i> , 1998, 431, 180-184.	2.8	123
9	Ablation of AMP-activated protein kinase Î±1 and Î±2 from mouse pancreatic beta cells and RIP2.Cre neurons suppresses insulin release in vivo. <i>Diabetologia</i> , 2010, 53, 924-936.	6.3	99
10	Over-expression of sterol-regulatory-element-binding protein-1c (SREBP1c) in rat pancreatic islets induces lipogenesis and decreases glucose-stimulated insulin release: modulation by 5-aminoimidazole-4-carboxamide ribonucleoside (AICAR). <i>Biochemical Journal</i> , 2004, 378, 769-778.	3.7	97
11	5â€²-AMP-activated Protein Kinase Controls Insulin-containing Secretory Vesicle Dynamics. <i>Journal of Biological Chemistry</i> , 2003, 278, 52042-52051.	3.4	94
12	Over-expression of AMP-activated protein kinase impairs pancreatic Î²-cell function in vivo. <i>Journal of Endocrinology</i> , 2005, 187, 225-235.	2.6	90
13	Stimulation of AMP-Activated Protein Kinase Is Essential for the Induction of Drug Metabolizing Enzymes by Phenobarbital in Human and Mouse Liver. <i>Molecular Pharmacology</i> , 2006, 70, 1925-1934.	2.3	84
14	AMP-Activated Protein Kinase: A New Beta-Cell Glucose Sensor?: Regulation by Amino Acids and Calcium Ions. <i>Diabetes</i> , 2004, 53, S67-S74.	0.6	78
15	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. <i>Journal of Clinical Investigation</i> , 2004, 114, 339-348.	8.2	77
16	ChREBP binding to fatty acid synthase and L-type pyruvate kinase genes is stimulated by glucose in pancreatic Î²-cells. <i>Journal of Lipid Research</i> , 2006, 47, 2482-2491.	4.2	76
17	Hypothalamic AMP-Activated Protein Kinase Regulates Glucose Production. <i>Diabetes</i> , 2010, 59, 2435-2443.	0.6	74
18	The AMP-regulated kinase family: Enigmatic targets for diabetes therapy. <i>Molecular and Cellular Endocrinology</i> , 2009, 297, 41-49.	3.2	69

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19	LKB1 deletion with the <i>RIP2.Cre</i> transgene modifies pancreatic β -cell morphology and enhances insulin secretion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1261-E1273.	3.5	63
20	Carbohydrate-Responsive Element-Binding Protein (ChREBP) Is a Negative Regulator of ARNT/HIF-1 β Gene Expression in Pancreatic Islet β -Cells. <i>Diabetes</i> , 2010, 59, 153-160.	0.6	61
21	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. <i>American Journal of Human Genetics</i> , 2017, 100, 238-256.	6.2	60
22	AMP-activated protein kinase regulates glucagon secretion from mouse pancreatic alpha cells. <i>Diabetologia</i> , 2011, 54, 125-134.	6.3	54
23	Glucose-Induced Nuclear Shuttling of ChREBP Is Mediated by Sorcin and Ca ²⁺ Ions in Pancreatic β -Cells. <i>Diabetes</i> , 2012, 61, 574-585.	0.6	52
24	Local and regional control of calcium dynamics in the pancreatic islet. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, 30-41.	4.4	49
25	The transcription factor Pax6 is required for pancreatic β cell identity, glucose-regulated ATP synthesis, and Ca ²⁺ dynamics in adult mice. <i>Journal of Biological Chemistry</i> , 2017, 292, 8892-8906.	3.4	48
26	Sorcin Links Pancreatic β -Cell Lipotoxicity to ER Ca ²⁺ Stores. <i>Diabetes</i> , 2016, 65, 1009-1021.	0.6	45
27	Mir-184 expression is regulated by AMPK in pancreatic islets. <i>FASEB Journal</i> , 2018, 32, 2587-2600.	0.5	39
28	The pore-forming subunit MCU of the mitochondrial Ca ²⁺ uniporter is required for normal glucose-stimulated insulin secretion in vitro and in vivo in mice. <i>Diabetologia</i> , 2020, 63, 1368-1381.	6.3	37
29	Expression of COUP-TFII in metabolic tissues during development. <i>Mechanisms of Development</i> , 2002, 119, 109-114.	1.7	35
30	Remote control of glucose homeostasis in vivo using photopharmacology. <i>Scientific Reports</i> , 2017, 7, 291.	3.3	33
31	Impact of Adenoviral Transduction With SREBP1c or AMPK on Pancreatic Islet Gene Expression Profile: Analysis With Oligonucleotide Microarrays. <i>Diabetes</i> , 2004, 53, S84-S91.	0.6	32
32	ChREBP regulates Pdx-1 and other glucose-sensitive genes in pancreatic β -cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 252-257.	2.1	23
33	<i>RIP2</i> -mediated <i>LKB1</i> deletion causes axon degeneration in the spinal cord and hind-limb paralysis. <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 193-202.	2.4	23
34	The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. <i>Molecular Metabolism</i> , 2020, 40, 101015.	6.5	22
35	The relationship between p38 mitogen-activated protein kinase and AMP-activated protein kinase during myocardial ischemia. <i>Cardiovascular Research</i> , 2007, 76, 465-472.	3.8	21
36	Transcription factor-7 β -like 2 (TCF7L2) gene acts downstream of the Lkb1/Stk11 kinase to control mTOR signaling, β cell growth, and insulin secretion. <i>Journal of Biological Chemistry</i> , 2018, 293, 14178-14189.	3.4	19

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37	Control of insulin granule dynamics by AMPK dependent KLC1 phosphorylation. <i>Islets</i> , 2009, 1, 198-209.	1.8	17
38	Adipocyte-specific deletion of Tcf7l2 induces dysregulated lipid metabolism and impairs glucose tolerance in mice. <i>Diabetologia</i> , 2021, 64, 129-141.	6.3	17
39	Intravital imaging of islet Ca ²⁺ dynamics reveals enhanced β cell connectivity after bariatric surgery in mice. <i>Nature Communications</i> , 2021, 12, 5165.	12.8	17
40	Role of AMP-activated protein kinase in the regulation of gene transcription. <i>Biochemical Society Transactions</i> , 2002, 30, 307-311.	3.4	15
41	AMP- and stress-activated protein kinases: Key regulators of glucose-dependent gene transcription in mammalian cells?. <i>Progress in Molecular Biology and Translational Science</i> , 2002, 71, 69-90.	1.9	15
42	Mitofusins <i>Mfn1</i> and <i>Mfn2</i> Are Required to Preserve Glucose- but Not Incretin-Stimulated β -Cell Connectivity and Insulin Secretion. <i>Diabetes</i> , 2022, 71, 1472-1489.	0.6	14
43	No change in glucose tolerance and substrate oxidation after a high-carbohydrate, low-fat diet. <i>Metabolism: Clinical and Experimental</i> , 1993, 42, 365-370.	3.4	11
44	Cell-wide analysis of secretory granule dynamics in three dimensions in living pancreatic β -cells: evidence against a role for AMPK-dependent phosphorylation of KLC1 at Ser517/Ser520 in glucose-stimulated insulin granule movement. <i>Biochemical Society Transactions</i> , 2010, 38, 205-208.	3.4	11
45	Roles of Ca ²⁺ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012, 213, 115-122.	2.6	10
46	Glucose-Dependent miR-125b Is a Negative Regulator of β -Cell Function. <i>Diabetes</i> , 2022, 71, 1525-1545.	0.6	10
47	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis. <i>Diabetologia</i> , 2021, 64, 850-864.	6.3	7
48	Synthesis and <i>in vivo</i> behaviour of an exendin-4-based MRI probe capable of β -cell-dependent contrast enhancement in the pancreas. <i>Dalton Transactions</i> , 2020, 49, 4732-4740.	3.3	5
49	Imaging Glucose-Regulated Insulin Secretion and Gene Expression in Single Islet β -Cells: Control by AMP-Activated Protein Kinase. <i>Cell Biochemistry and Biophysics</i> , 2004, 40, 179-190.	1.8	5
50	The Ca ²⁺ binding protein sorcin stimulates transcriptional activity of the unfolded protein response mediator ATF6. <i>FEBS Letters</i> , 2021, 595, 1782-1796.	2.8	4
51	Manipulation and Measurement of AMPK Activity in Pancreatic Islets. <i>Methods in Molecular Biology</i> , 2018, 1732, 413-431.	0.9	4
52	2183-P: miR-125b Is Regulated by Glucose via AMPK and Impairs β -Cell Function. <i>Diabetes</i> , 2019, 68, .	0.6	4
53	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase. <i>Diabetologia</i> , 2022, 65, 997-1011.	6.3	4
54	Present and potential future use of gene therapy for the treatment of non-insulin dependent diabetes mellitus (Review).. <i>International Journal of Molecular Medicine</i> , 1999, 4, 585-92.	4.0	3

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55	Vertical Sleeve Gastrectomy Lowers SGLT2/Slc5a2 Expression in the Mouse Kidney. <i>Diabetes</i> , 2022, 71, 1623-1635.	0.6	2
56	Real-Time In Vivo Imaging of Whole Islet Ca ²⁺ Dynamics Reveals Glucose-Induced Changes in Beta-Cell Connectivity in Mouse and Human Islets. <i>Diabetes</i> , 2018, 67, 249-LB.	0.6	1
57	The relationship between P38 ^α -MAPK and AMPK during myocardial ischaemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S52.	1.9	0
58	Glucose regulates miR-184 via AMP-activated protein kinase (AMPK) in pancreatic [beta]-cells. <i>Endocrine Abstracts</i> , 0, , .	0.0	0
59	2173-P: Effects of AMP-Activated Protein Kinase Activation on Insulin Secretion in Mice. <i>Diabetes</i> , 2019, 68, .	0.6	0
60	343-LB: The Type 2 Diabetes-Associated Lipid Binding Protein STARD10 Controls Insulin Secretory Granule Biogenesis. <i>Diabetes</i> , 2019, 68, .	0.6	0
61	42-OR: Hub Cells Orchestrate 3-Dimensional Pancreatic Beta-Cell Ca ²⁺ Dynamics In Vivo. <i>Diabetes</i> , 2019, 68, 42-OR.	0.6	0
62	161-LB: Inhibition of Kidney SGLT2 Expression following Bariatric Surgery in Mice. <i>Diabetes</i> , 2019, 68, 161-LB.	0.6	0
63	Metabolic surgery reduces kidney SGLT2 expression in mice. <i>Endocrine Abstracts</i> , 0, , .	0.0	0
64	Modulation of EGFR expression to increase islet transplantation success. <i>Endocrine Abstracts</i> , 0, , .	0.0	0
65	1683-P: Upregulation of Pancreatic Islet EGF Receptor Improves Beta-Cell Identity and In Vivo Vascularisation in a Directly Observed Transplant Model. <i>Diabetes</i> , 2020, 69, 1683-P.	0.6	0
66	1912-P: Bariatric Surgery Downregulates Glucocorticoid Signaling in Mice. <i>Diabetes</i> , 2020, 69, .	0.6	0
67	2100-P: Binding Kinetics, GLP-1 Receptor Internalization, and Effects on Insulin Secretion for GL0034 and Related GLP-1R Agonists. <i>Diabetes</i> , 2020, 69, .	0.6	0
68	320-OR: Bariatric Surgery Improves Ca ²⁺ Dynamics across Pancreatic Islets In Vivo. <i>Diabetes</i> , 2020, 69, 320-OR.	0.6	0
69	2072-P: Deletion of the Mitofusins 1 and 2 (Mfn1 and Mfn2) in the Pancreatic Beta Cell Disrupts Mitochondrial Structure and Function In Vitro and Strongly Impairs Glucose-Stimulated Insulin Secretion In Vivo. <i>Diabetes</i> , 2020, 69, 2072-P.	0.6	0
70	1798-P: Chronic Administration of a Long-Acting Glucagon Analogue Results in Enhanced Insulin Secretory Activity in a Directly-Observed Murine Model. <i>Diabetes</i> , 2020, 69, 1798-P.	0.6	0