

# 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	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
2	Mitofusins <i>Mfn1</i> and <i>Mfn2</i> Are Required to Preserve Glucose- but Not Incretin-Stimulated $\beta^2$ -Cell Connectivity and Insulin Secretion. <i>Diabetes</i> , 2022, 71, 1472-1489.	0.6	14
3	Glucose-Dependent miR-125b Is a Negative Regulator of $\beta^2$ -Cell Function. <i>Diabetes</i> , 2022, 71, 1525-1545.	0.6	10
4	Vertical Sleeve Gastrectomy Lowers SGLT2/ <i>Slc5a2</i> Expression in the Mouse Kidney. <i>Diabetes</i> , 2022, 71, 1623-1635.	0.6	2
5	Adipocyte-specific deletion of <i>Tcf7l2</i> induces dysregulated lipid metabolism and impairs glucose tolerance in mice. <i>Diabetologia</i> , 2021, 64, 129-141.	6.3	17
6	Sexually dimorphic roles for the type 2 diabetes-associated <i>C2cd4b</i> gene in murine glucose homeostasis. <i>Diabetologia</i> , 2021, 64, 850-864.	6.3	7
7	The Ca <sup>2+</sup> binding protein sorcin stimulates transcriptional activity of the unfolded protein response mediator ATF6. <i>FEBS Letters</i> , 2021, 595, 1782-1796.	2.8	4
8	Intravital imaging of islet Ca <sup>2+</sup> dynamics reveals enhanced $\beta^2$ cell connectivity after bariatric surgery in mice. <i>Nature Communications</i> , 2021, 12, 5165.	12.8	17
9	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
10	Synthesis and <i>in vivo</i> behaviour of an exendin-4-based MRI probe capable of $\beta^2$ -cell-dependent contrast enhancement in the pancreas. <i>Dalton Transactions</i> , 2020, 49, 4732-4740.	3.3	5
11	The pore-forming subunit MCU of the mitochondrial Ca <sup>2+</sup> uniporter is required for normal glucose-stimulated insulin secretion <i>in vitro</i> and <i>in vivo</i> in mice. <i>Diabetologia</i> , 2020, 63, 1368-1381.	6.3	37
12	1683-P: Upregulation of Pancreatic Islet EGF Receptor Improves Beta-Cell Identity and <i>In Vivo</i> Vascularisation in a Directly Observed Transplant Model. <i>Diabetes</i> , 2020, 69, 1683-P.	0.6	0
13	1912-P: Bariatric Surgery Downregulates Glucocorticoid Signaling in Mice. <i>Diabetes</i> , 2020, 69, .	0.6	0
14	2100-P: Binding Kinetics, GLP-1 Receptor Internalization, and Effects on Insulin Secretion for GLO034 and Related GLP-1R Agonists. <i>Diabetes</i> , 2020, 69, .	0.6	0
15	320-OR: Bariatric Surgery Improves Ca <sup>2+</sup> Dynamics across Pancreatic Islets <i>In Vivo</i> . <i>Diabetes</i> , 2020, 69, 320-OR.	0.6	0
16	2072-P: Deletion of the Mitofusins 1 and 2 ( <i>Mfn1</i> and <i>Mfn2</i> ) in the Pancreatic Beta Cell Disrupts Mitochondrial Structure and Function <i>In Vitro</i> and Strongly Impairs Glucose-Stimulated Insulin Secretion <i>In Vivo</i> . <i>Diabetes</i> , 2020, 69, 2072-P.	0.6	0
17	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
18	Leader $\beta^2$ -cells coordinate Ca <sup>2+</sup> dynamics across pancreatic islets <i>in vivo</i> . <i>Nature Metabolism</i> , 2019, 1, 615-629.	11.9	128

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19	2183-P: miR-125b Is Regulated by Glucose via AMPK and Impairs $\beta$ -Cell Function. <i>Diabetes</i> , 2019, 68, .	0.6	4
20	2173-P: Effects of AMP-Activated Protein Kinase Activation on Insulin Secretion in Mice. <i>Diabetes</i> , 2019, 68, .	0.6	0
21	343-LB: The Type 2 Diabetes-Associated Lipid Binding Protein STARD10 Controls Insulin Secretory Granule Biogenesis. <i>Diabetes</i> , 2019, 68, .	0.6	0
22	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
23	161-LB: Inhibition of Kidney SGLT2 Expression following Bariatric Surgery in Mice. <i>Diabetes</i> , 2019, 68, 161-LB.	0.6	0
24	Mir-184 expression is regulated by AMPK in pancreatic islets. <i>FASEB Journal</i> , 2018, 32, 2587-2600.	0.5	39
25	Transcription factor-7-like 2 (TCF7L2) gene acts downstream of the Lkb1/Stk11 kinase to control mTOR signaling, $\beta^2$ cell growth, and insulin secretion. <i>Journal of Biological Chemistry</i> , 2018, 293, 14178-14189.	3.4	19
26	Manipulation and Measurement of AMPK Activity in Pancreatic Islets. <i>Methods in Molecular Biology</i> , 2018, 1732, 413-431.	0.9	4
27	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
28	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
29	The transcription factor Pax6 is required for pancreatic $\beta^2$ 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
30	Local and regional control of calcium dynamics in the pancreatic islet. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, 30-41.	4.4	49
31	Remote control of glucose homeostasis in vivo using photopharmacology. <i>Scientific Reports</i> , 2017, 7, 291.	3.3	33
32	Sorcin Links Pancreatic $\beta^2$ -Cell Lipotoxicity to ER $Ca^{2+}$ Stores. <i>Diabetes</i> , 2016, 65, 1009-1021.	0.6	45
33	Roles of $Ca^{2+}$ ions in the control of ChREBP nuclear translocation. <i>Journal of Endocrinology</i> , 2012, 213, 115-122.	2.6	10
34	Glucose-Induced Nuclear Shuttling of ChREBP Is Mediated by Sorcin and $Ca^{2+}$ Ions in Pancreatic $\beta^2$ -Cells. <i>Diabetes</i> , 2012, 61, 574-585.	0.6	52
35	AMP-activated protein kinase regulates glucagon secretion from mouse pancreatic alpha cells. <i>Diabetologia</i> , 2011, 54, 125-134.	6.3	54
36	<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

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37	Ablation of AMP-activated protein kinase $\hat{1}\pm 1$ and $\hat{1}\pm 2$ from mouse pancreatic beta cells and RIP2.Cre neurons suppresses insulin release in vivo. <i>Diabetologia</i> , 2010, 53, 924-936.	6.3	99
38	Carbohydrate-Responsive Element-Binding Protein (ChREBP) Is a Negative Regulator of ARNT/HIF-1 $\hat{1}\pm 2$ Gene Expression in Pancreatic Islet $\hat{1}\pm 2$ -Cells. <i>Diabetes</i> , 2010, 59, 153-160.	0.6	61
39	Hypothalamic AMP-Activated Protein Kinase Regulates Glucose Production. <i>Diabetes</i> , 2010, 59, 2435-2443.	0.6	74
40	Cell-wide analysis of secretory granule dynamics in three dimensions in living pancreatic $\hat{1}\pm 2$ -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
41	LKB1 deletion with the $\langle i \rangle$ RIP2.Cre $\langle /i \rangle$ transgene modifies pancreatic $\hat{1}\pm 2$ -cell morphology and enhances insulin secretion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1261-E1273.	3.5	63
42	ChREBP regulates Pdx-1 and other glucose-sensitive genes in pancreatic $\hat{1}\pm 2$ -cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 252-257.	2.1	23
43	Control of insulin granule dynamics by AMPK dependent KLC1 phosphorylation. <i>Islets</i> , 2009, 1, 198-209.	1.8	17
44	The AMP-regulated kinase family: Enigmatic targets for diabetes therapy. <i>Molecular and Cellular Endocrinology</i> , 2009, 297, 41-49.	3.2	69
45	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
46	The relationship between P38 $\hat{1}\pm 2$ MAPK and AMPK during myocardial ischaemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S52.	1.9	0
47	ChREBP binding to fatty acid synthase and L-type pyruvate kinase genes is stimulated by glucose in pancreatic $\hat{1}\pm 2$ -cells. <i>Journal of Lipid Research</i> , 2006, 47, 2482-2491.	4.2	76
48	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
49	Over-expression of AMP-activated protein kinase impairs pancreatic $\hat{1}\pm 2$ -cell function in vivo. <i>Journal of Endocrinology</i> , 2005, 187, 225-235.	2.6	90
50	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
51	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
52	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
53	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
54	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

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55	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
56	Imaging Glucose-Regulated Insulin Secretion and Gene Expression in Single Islet $\beta$ -Cells: Control by AMP-Activated Protein Kinase. <i>Cell Biochemistry and Biophysics</i> , 2004, 40, 179-190.	1.8	5
57	Role for AMP-activated protein kinase in glucose-stimulated insulin secretion and proinsulin gene expression. <i>Biochemical Journal</i> , 2003, 371, 761-774.	3.7	253
58	5 $\alpha$ -AMP-activated Protein Kinase Controls Insulin-containing Secretory Vesicle Dynamics. <i>Journal of Biological Chemistry</i> , 2003, 278, 52042-52051.	3.4	94
59	Roles of 5 $\alpha$ -AMP-activated protein kinase (AMPK) in mammalian glucose homeostasis. <i>Biochemical Journal</i> , 2003, 375, 1-16.	3.7	310
60	Loss of Brain Volume in Endogenous Cushing's Syndrome and Its Reversibility after Correction of Hypercortisolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 1949-1954.	3.6	175
61	Role of AMP-activated protein kinase in the regulation of gene transcription. <i>Biochemical Society Transactions</i> , 2002, 30, 307-311.	3.4	15
62	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
63	Expression of COUP-TFII in metabolic tissues during development. <i>Mechanisms of Development</i> , 2002, 119, 109-114.	1.7	35
64	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
65	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
66	The 5 $\alpha$ -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
67	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
68	Glucose regulates miR-184 via AMP-activated protein kinase (AMPK) in pancreatic [ $\beta$ ]-cells. <i>Endocrine Abstracts</i> , 0, , .	0.0	0
69	Metabolic surgery reduces kidney SGLT2 expression in mice. <i>Endocrine Abstracts</i> , 0, , .	0.0	0
70	Modulation of EGFR expression to increase islet transplantation success. <i>Endocrine Abstracts</i> , 0, , .	0.0	0