Isabelle Leclerc

List of Publications by Year in Descending Order

70 papers	2,669 citations	28 h-index	51 g-index
84 ext. papers	2,959 ext. citations	4.6 avg, IF	4.55 L-index

#	Paper	IF	Citations
70	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase.. *Diabetologia*, **2022**, 65, 997	10.3	
69	The Ca -binding protein sorcin stimulates transcriptional activity of the unfolded protein response mediator ATF6. *FEBS Letters*, **2021**, 595, 1782-1796	3.8	1
68	Adipocyte-specific deletion of Tcf7l2 induces dysregulated lipid metabolism and impairs glucose tolerance in mice. *Diabetologia*, **2021**, 64, 129-141	10.3	6
67	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis. *Diabetologia*, **2021**, 64, 850-864	10.3	3
66	Intravital imaging of islet Ca dynamics reveals enhanced □cell connectivity after bariatric surgery in mice. *Nature Communications*, **2021**, 12, 5165	17.4	2
65	The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. *Molecular Metabolism*, **2020**, 40, 101015	8.8	10
64	Synthesis and in vivo behaviour of an exendin-4-based MRI probe capable of □cell-dependent contrast enhancement in the pancreas. *Dalton Transactions*, **2020**, 49, 4732-4740	4.3	4
63	The pore-forming subunit MCU of the mitochondrial Ca uniporter is required for normal glucose-stimulated insulin secretion in vitro and in vivo in mice. *Diabetologia*, **2020**, 63, 1368-1381	10.3	16
62	1683-P: Upregulation of Pancreatic Islet EGF Receptor Improves Beta-Cell Identity and In Vivo Vascularisation in a Directly Observed Transplant Model. *Diabetes*, **2020**, 69, 1683-P	0.9	
61	1912-P: Bariatric Surgery Downregulates Glucocorticoid Signaling in Mice. *Diabetes*, **2020**, 69, 1912-P	0.9	
60	2100-P: Binding Kinetics, GLP-1 Receptor Internalization, and Effects on Insulin Secretion for GL0034 and Related GLP-1R Agonists. *Diabetes*, **2020**, 69, 2100-P	0.9	
59	320-OR: Bariatric Surgery Improves Ca2+ Dynamics across Pancreatic Islets In Vivo. *Diabetes*, **2020**, 69, 320-OR	0.9	
58	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. *Diabetes*, **2020**, 69, 2072-P	0.9	
57	1798-P: Chronic Administration of a Long-Acting Glucagon Analogue Results in Enhanced Insulin Secretory Activity in a Directly-Observed Murine Model. *Diabetes*, **2020**, 69, 1798-P	0.9	
56	Leader □cells coordinate Ca dynamics across pancreatic islets in vivo. *Nature Metabolism*, **2019**, 1, 615-629	14.6	70
55	2183-P: miR-125b Is Regulated by Glucose via AMPK and Impairs □Cell Function. *Diabetes*, **2019**, 68, 2183-P	0.9	2
54	2173-P: Effects of AMP-Activated Protein Kinase Activation on Insulin Secretion in Mice. *Diabetes*, **2019**, 68, 2173-P	0.9	

53	42-OR: Hub Cells Orchestrate 3-Dimensional Pancreatic Beta-Cell Ca2+ Dynamics In Vivo. *Diabetes*, **2019**, 68, 42-OR	0.9	
52	161-LB: Inhibition of Kidney SGLT2 Expression following Bariatric Surgery in Mice. *Diabetes*, **2019**, 68, 161-LB	0.9	
51	MiR-184 expression is regulated by AMPK in pancreatic islets. *FASEB Journal*, **2018**, 32, 2587-2600	0.9	28
50	Real-Time In Vivo Imaging of Whole Islet Ca2+ Dynamics Reveals Glucose-Induced Changes in Beta-Cell Connectivity in Mouse and Human Islets. *Diabetes*, **2018**, 67, 249-LB	0.9	0
49	Manipulation and Measurement of AMPK Activity in Pancreatic Islets. *Methods in Molecular Biology*, **2018**, 1732, 413-431	1.4	3
48	Transcription factor-7-like 2 () gene acts downstream of the / kinase to control mTOR signaling, cell growth, and insulin secretion. *Journal of Biological Chemistry*, **2018**, 293, 14178-14189	5.4	15
47	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. *American Journal of Human Genetics*, **2017**, 100, 238-256	11	50
46	The transcription factor is required for pancreatic cell identity, glucose-regulated ATP synthesis, and Ca dynamics in adult mice. *Journal of Biological Chemistry*, **2017**, 292, 8892-8906	5.4	34
45	Local and regional control of calcium dynamics in the pancreatic islet. *Diabetes, Obesity and Metabolism*, **2017**, 19 Suppl 1, 30-41	6.7	29
44	Remote control of glucose homeostasis in vivo using photopharmacology. *Scientific Reports*, **2017**, 7, 291	4.9	23
43	Sorcin Links Pancreatic Cell Lipotoxicity to ER Ca2+ Stores. *Diabetes*, **2016**, 65, 1009-21	0.9	32
42	Roles of Ca2+ ions in the control of ChREBP nuclear translocation. *Journal of Endocrinology*, **2012**, 213, 115-22	4.7	9
41	Glucose-induced nuclear shuttling of ChREBP is mediated by sorcin and Ca(2+) ions in pancreatic cells. *Diabetes*, **2012**, 61, 574-85	0.9	38
40	AMP-activated protein kinase regulates glucagon secretion from mouse pancreatic alpha cells. *Diabetologia*, **2011**, 54, 125-34	10.3	41
39	RIP2-mediated LKB1 deletion causes axon degeneration in the spinal cord and hind-limb paralysis. *DMM Disease Models and Mechanisms*, **2011**, 4, 193-202	4.1	22
38	Carbohydrate-responsive element-binding protein (ChREBP) is a negative regulator of ARNT/HIF-1beta gene expression in pancreatic islet beta-cells. *Diabetes*, **2010**, 59, 153-60	0.9	53
37	Hypothalamic AMP-activated protein kinase regulates glucose production. *Diabetes*, **2010**, 59, 2435-43	0.9	68
36	Cell-wide analysis of secretory granule dynamics in three dimensions in living pancreatic beta-cells: evidence against a role for AMPK-dependent phosphorylation of KLC1 at Ser517/Ser520 in glucose-stimulated insulin granule movement. *Biochemical Society Transactions*, **2010**, 38, 205-8	5.1	7

35	LKB1 deletion with the RIP2.Cre transgene modifies pancreatic beta-cell morphology and enhances insulin secretion in vivo. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E1261-73	6	61
34	ChREBP regulates Pdx-1 and other glucose-sensitive genes in pancreatic □cells. *Biochemical and Biophysical Research Communications*, **2010**, 402, 252-7	3.4	19
33	Ablation of AMP-activated protein kinase alpha1 and alpha2 from mouse pancreatic beta cells and RIP2.Cre neurons suppresses insulin release in vivo. *Diabetologia*, **2010**, 53, 924-36	10.3	86
32	Control of insulin granule dynamics by AMPK dependent KLC1 phosphorylation. *Islets*, **2009**, 1, 198-209	2	14
31	The AMP-regulated kinase family: enigmatic targets for diabetes therapy. *Molecular and Cellular Endocrinology*, **2009**, 297, 41-9	4.4	64
30	The relationship between p38 mitogen-activated protein kinase and AMP-activated protein kinase during myocardial ischemia. *Cardiovascular Research*, **2007**, 76, 465-72	9.9	18
29	ChREBP binding to fatty acid synthase and L-type pyruvate kinase genes is stimulated by glucose in pancreatic beta-cells. *Journal of Lipid Research*, **2006**, 47, 2482-91	6.3	68
28	Stimulation of AMP-activated protein kinase is essential for the induction of drug metabolizing enzymes by phenobarbital in human and mouse liver. *Molecular Pharmacology*, **2006**, 70, 1925-34	4.3	77
27	Over-expression of AMP-activated protein kinase impairs pancreatic {beta}-cell function in vivo. *Journal of Endocrinology*, **2005**, 187, 225-35	4.7	83
26	AMP-activated protein kinase: a new beta-cell glucose sensor?: Regulation by amino acids and calcium ions. *Diabetes*, **2004**, 53 Suppl 3, S67-74	0.9	67
25	Impact of adenoviral transduction with SREBP1c or AMPK on pancreatic islet gene expression profile: analysis with oligonucleotide microarrays. *Diabetes*, **2004**, 53 Suppl 3, S84-91	0.9	27
24	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). *Biochemical Journal*, **2004**, 378, 769-78	3.8	88
23	Metformin, but not leptin, regulates AMP-activated protein kinase in pancreatic islets: impact on glucose-stimulated insulin secretion. *American Journal of Physiology - Endocrinology and Metabolism* , **2004**, 286, E1023-31	6	127
22	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. *Journal of Clinical Investigation*, **2004**, 114, 339-48	15.9	56
21	Impaired glucose homeostasis in transgenic mice expressing the human transient neonatal diabetes mellitus locus, TNDM. *Journal of Clinical Investigation*, **2004**, 114, 339-348	15.9	108
20	Imaging Glucose-Regulated Insulin Secretion and Gene Expression in Single Islet □Cells: Control by AMP-Activated Protein Kinase. *Cell Biochemistry and Biophysics*, **2004**, 40, 179-190	3.2	4
19	5ŦAMP-activated protein kinase controls insulin-containing secretory vesicle dynamics. *Journal of Biological Chemistry*, **2003**, 278, 52042-51	5.4	82
18	Roles of 5ŦAMP-activated protein kinase (AMPK) in mammalian glucose homoeostasis. *Biochemical Journal*, **2003**, 375, 1-16	3.8	288

17	Role for AMP-activated protein kinase in glucose-stimulated insulin secretion and preproinsulin gene expression. *Biochemical Journal*, **2003**, 371, 761-74	3.8	235
16	Loss of brain volume in endogenous Cushing's syndrome and its reversibility after correction of hypercortisolism. *Journal of Clinical Endocrinology and Metabolism*, **2002**, 87, 1949-54	5.6	146
15	Role of AMP-activated protein kinase in the regulation of gene transcription. *Biochemical Society Transactions*, **2002**, 30, 307-311	5.1	15
14	AMP- and stress-activated protein kinases: key regulators of glucose-dependent gene transcription in mammalian cells?. *Progress in Molecular Biology and Translational Science*, **2002**, 71, 69-90		13
13	Expression of COUP-TFII in metabolic tissues during development. *Mechanisms of Development*, **2002**, 119, 109-14	1.7	32
12	Role of AMP-activated protein kinase in the regulation by glucose of islet beta cell gene expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 4023-8	11.5	188
11	Present and potential future use of gene therapy for the treatment of non-insulin dependent diabetes mellitus (Review). *International Journal of Molecular Medicine*, **1999**, 4, 585-92	4.4	2
10	The 5'AMP-activated protein kinase inhibits the transcriptional stimulation by glucose in liver cells, acting through the glucose response complex. *FEBS Letters*, **1998**, 431, 180-4	3.8	107
9	No change in glucose tolerance and substrate oxidation after a high-carbohydrate, low-fat diet. *Metabolism: Clinical and Experimental*, **1993**, 42, 365-70	12.7	10
8	Mitofusins Mfn1 and Mfn2 are required to preserve glucose-but not incretin- stimulated beta cell connectivity and insulin secretion		3
7	Sorcin stimulates Activation Transcription Factor 6 (ATF6) transcriptional activity		1
6	Intravital imaging of islet Ca2+ dynamics reveals enhanced cell connectivity after bariatric surgery in mice		2
5	Sexually dimorphic roles for the type 2 diabetes-associated C2cd4b gene in murine glucose homeostasis		2
4	Reduced expression of TCF7L2 in adipocyte impairs glucose tolerance associated with decreased insulin secretion, incretins levels and lipid metabolism dysregulation in male mice		1
3	The long non-coding RNA Pax6os1/PAX6-AS1 modulates pancreatic cell identity and function		5
2	Vertical sleeve gastrectomy lowers kidney SGLT2 expression in the mouse		2
1	Glucose-dependent miR-125b is a negative regulator of cell function		1