Catherine Postic

List of Publications by Citations

89 papers	10,155 citations	39 h-index	98 g-index
98 ext. papers	11,393 ext. citations	8.7 avg, IF	6 L-index

#	Paper	IF	Citations
89	Tissue-specific knockout of the insulin receptor in pancreatic beta cells creates an insulin secretory defect similar to that in type 2 diabetes. *Cell*, **1999**, 96, 329-39	56.2	983
88	Dual roles for glucokinase in glucose homeostasis as determined by liver and pancreatic beta cell-specific gene knock-outs using Cre recombinase. *Journal of Biological Chemistry*, **1999**, 274, 305-15	5.4	970
87	Loss of Insulin Signaling in Hepatocytes Leads to Severe Insulin Resistance and Progressive Hepatic Dysfunction. *Molecular Cell*, **2000**, 6, 87-97	17.6	951
86	Contribution of de novo fatty acid synthesis to hepatic steatosis and insulin resistance: lessons from genetically engineered mice. *Journal of Clinical Investigation*, **2008**, 118, 829-38	15.9	843
85	Hepatic glucokinase is required for the synergistic action of ChREBP and SREBP-1c on glycolytic and lipogenic gene expression. *Journal of Biological Chemistry*, **2004**, 279, 20314-26	5.4	333
84	Liver PPAR□is crucial for whole-body fatty acid homeostasis and is protective against NAFLD. *Gut*, **2016**, 65, 1202-14	19.2	327
83	Liver-specific inhibition of ChREBP improves hepatic steatosis and insulin resistance in ob/ob mice. *Diabetes*, **2006**, 55, 2159-70	0.9	322
82	Role of the liver in the control of carbohydrate and lipid homeostasis. *Diabetes and Metabolism*, **2004**, 30, 398-408	5.4	313
81	DNA excision in liver by an albumin-Cre transgene occurs progressively with age. *Genesis*, **2000**, 26, 149-50	1.9	309
80	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. *Nature Medicine*, **2018**, 24, 1070-1080	50.5	276
79	The lipogenic transcription factor ChREBP dissociates hepatic steatosis from insulin resistance in mice and humans. *Journal of Clinical Investigation*, **2012**, 122, 2176-94	15.9	254
78	Carbohydrate responsive element binding protein (ChREBP) and sterol regulatory element binding protein-1c (SREBP-1c): two key regulators of glucose metabolism and lipid synthesis in liver. *Biochimie*, **2005**, 87, 81-6	4.6	253
77	Brain glucagon-like peptide-1 increases insulin secretion and muscle insulin resistance to favor hepatic glycogen storage. *Journal of Clinical Investigation*, **2005**, 115, 3554-63	15.9	230
76	Polyunsaturated fatty acids suppress glycolytic and lipogenic genes through the inhibition of ChREBP nuclear protein translocation. *Journal of Clinical Investigation*, **2005**, 115, 2843-54	15.9	223
75	Hepatocyte-specific mutation establishes retinoid X receptor alpha as a heterodimeric integrator of multiple physiological processes in the liver. *Molecular and Cellular Biology*, **2000**, 20, 4436-44	4.8	212
74	The role of the lipogenic pathway in the development of hepatic steatosis. *Diabetes and Metabolism*, **2008**, 34, 643-8	5.4	209
73	Salt-inducible kinase 2 links transcriptional coactivator p300 phosphorylation to the prevention of ChREBP-dependent hepatic steatosis in mice. *Journal of Clinical Investigation*, **2010**, 120, 4316-31	15.9	208

72	ChREBP, a transcriptional regulator of glucose and lipid metabolism. *Annual Review of Nutrition*, **2007**, 27, 179-92	9.9	201
71	Phosphoenolpyruvate carboxykinase is necessary for the integration of hepatic energy metabolism. *Molecular and Cellular Biology*, **2000**, 20, 6508-17	4.8	184
70	Analysis of the Cre-mediated recombination driven by rat insulin promoter in embryonic and adult mouse pancreas. *Genesis*, **2000**, 26, 139-42	1.9	159
69	O-GlcNAcylation increases ChREBP protein content and transcriptional activity in the liver. *Diabetes* , **2011**, 60, 1399-413	0.9	146
68	ChREBP, but not LXRs, is required for the induction of glucose-regulated genes in mouse liver. *Journal of Clinical Investigation*, **2008**, 118, 956-64	15.9	142
67	Novel insights into ChREBP regulation and function. *Trends in Endocrinology and Metabolism*, **2013**, 24, 257-68	8.8	138
66	Cell-specific roles of glucokinase in glucose homeostasis. *Endocrine Reviews*, **2001**, 56, 195-217		133
65	Effects of increased glucokinase gene copy number on glucose homeostasis and hepatic glucose metabolism. *Journal of Biological Chemistry*, **1997**, 272, 22570-5	5.4	120
64	Glucose 6-phosphate, rather than xylulose 5-phosphate, is required for the activation of ChREBP in response to glucose in the liver. *Journal of Hepatology*, **2012**, 56, 199-209	13.4	111
63	Distinct regulation of adiponutrin/PNPLA3 gene expression by the transcription factors ChREBP and SREBP1c in mouse and human hepatocytes. *Journal of Hepatology*, **2011**, 55, 145-53	13.4	102
62	Sweet Sixteenth for ChREBP: Established Roles and Future Goals. *Cell Metabolism*, **2017**, 26, 324-341	24.6	101
61	Role of ChREBP in hepatic steatosis and insulin resistance. *FEBS Letters*, **2008**, 582, 68-73	3.8	94
60	Farnesoid X receptor inhibits the transcriptional activity of carbohydrate response element binding protein in human hepatocytes. *Molecular and Cellular Biology*, **2013**, 33, 2202-11	4.8	83
59	LRH-1-dependent glucose sensing determines intermediary metabolism in liver. *Journal of Clinical Investigation*, **2012**, 122, 2817-26	15.9	77
58	A Specific ChREBP and PPAR□Cross-Talk Is Required for the Glucose-Mediated FGF21 Response. *Cell Reports*, **2017**, 21, 403-416	10.6	66
57	Hepatokines: unlocking the multi-organ network in metabolic diseases. *Diabetologia*, **2015**, 58, 1699-703	10.3	65
56	Cross-regulation of hepatic glucose metabolism via ChREBP and nuclear receptors. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2011**, 1812, 995-1006	6.9	60
55	Hepatic gene regulation by glucose and polyunsaturated fatty acids: a role for ChREBP. *Journal of Nutrition*, **2006**, 136, 1145-9	4.1	60

54	Carbohydrate Sensing Through the Transcription Factor ChREBP. *Frontiers in Genetics*, **2019**, 10, 472	4.5	57
53	Glucokinase gene locus transgenic mice are resistant to the development of obesity-induced type 2 diabetes. *Diabetes*, **2001**, 50, 622-9	0.9	55
52	Adenovirus-mediated knockout of a conditional glucokinase gene in isolated pancreatic islets reveals an essential role for proximal metabolic coupling events in glucose-stimulated insulin secretion. *Journal of Biological Chemistry*, **1999**, 274, 1000-4	5.4	53
51	Cellular and molecular mechanisms of adipose tissue plasticity in muscle insulin receptor knockout mice. *Endocrinology*, **2004**, 145, 1926-32	4.8	39
50	Novel role for carbohydrate responsive element binding protein in the control of ethanol metabolism and susceptibility to binge drinking. *Hepatology*, **2015**, 62, 1086-100	11.2	38
49	Cell-specific expression and regulation of a glucokinase gene locus transgene. *Journal of Biological Chemistry*, **1997**, 272, 22564-9	5.4	38
48	Integration of ChREBP-Mediated Glucose Sensing into Whole Body Metabolism. *Physiology*, **2015**, 30, 428-37	9.8	34
47	Essential fatty acids deficiency promotes lipogenic gene expression and hepatic steatosis through the liver X receptor. *Journal of Hepatology*, **2013**, 58, 984-92	13.4	34
46	The histone demethylase Phf2 acts as a molecular checkpoint to prevent NAFLD progression during obesity. *Nature Communications*, **2018**, 9, 2092	17.4	34
45	The transcription factor COUP-TFII is negatively regulated by insulin and glucose via Foxo1- and ChREBP-controlled pathways. *Molecular and Cellular Biology*, **2008**, 28, 6568-79	4.8	33
44	Cloning and characterization of the mouse glucokinase gene locus and identification of distal liver-specific DNase I hypersensitive sites. *Genomics*, **1995**, 29, 740-50	4.3	33
43	Insights into the role of hepatocyte PPAR activity in response to fasting. *Molecular and Cellular Endocrinology*, **2018**, 471, 75-88	4.4	29
42	Overexpression of beta2-adrenergic receptors in mouse liver alters the expression of gluconeogenic and glycolytic enzymes. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 288, E715-22	6	28
41	Dysregulated CRTC1 activity is a novel component of PGE2 signaling that contributes to colon cancer growth. *Oncogene*, **2016**, 35, 2602-14	9.2	27
40	Dietary oleic acid regulates hepatic lipogenesis through a liver X receptor-dependent signaling. *PLoS ONE*, **2017**, 12, e0181393	3.7	26
39	Interaction between hormone-sensitive lipase and ChREBP in fat cells controls insulin sensitivity. *Nature Metabolism*, **2019**, 1, 133-146	14.6	26
38	Hepatocyte-specific deletion of Ppar promotes NAFLD in the context of obesity. *Scientific Reports*, **2020**, 10, 6489	4.9	25
37	MondoA/ChREBP: The usual suspects of transcriptional glucose sensing; Implication in pathophysiology. *Metabolism: Clinical and Experimental*, **2017**, 70, 133-151	12.7	20

36	O-GlcNAcylation Links ChREBP and FXR to Glucose-Sensing. *Frontiers in Endocrinology*, **2014**, 5, 230	5.7	20
35	Emerging role of miR-21 in non-alcoholic fatty liver disease. *Gut*, **2016**, 65, 1781-1783	19.2	20
34	Carbohydrate responsive element binding protein and lipid homeostasis. *Current Opinion in Lipidology*, **2008**, 19, 301-6	4.4	18
33	Adipocyte Glucocorticoid Receptor Deficiency Promotes Adipose Tissue Expandability and Improves the Metabolic Profile Under Corticosterone Exposure. *Diabetes*, **2019**, 68, 305-317	0.9	16
32	MondoA Is an Essential Glucose-Responsive Transcription Factor in Human Pancreatic β Cells. *Diabetes*, **2018**, 67, 461-472	0.9	15
31	Growth factor receptor binding protein 14 inhibition triggers insulin-induced mouse hepatocyte proliferation and is associated with hepatocellular carcinoma. *Hepatology*, **2017**, 65, 1352-1368	11.2	14
30	Calpain activation is required for homocysteine-mediated hepatic degradation of inhibitor I kappa B alpha. *Molecular Genetics and Metabolism*, **2009**, 97, 114-20	3.7	14
29	Effects of altered glucokinase gene copy number on blood glucose homoeostasis. *Biochemical Society Transactions*, **1997**, 25, 113-7	5.1	14
28	Matrix metalloproteinase 11 protects from diabesity and promotes metabolic switch. *Scientific Reports*, **2016**, 6, 25140	4.9	14
27	Liver Reptin/RUVBL2 controls glucose and lipid metabolism with opposite actions on mTORC1 and mTORC2 signalling. *Gut*, **2018**, 67, 2192-2203	19.2	12
26	Isolation and characterization of the mouse cytosolic phosphoenolpyruvate carboxykinase (GTP) gene: evidence for tissue-specific hypersensitive sites. *Molecular and Cellular Endocrinology*, **1999**, 148, 67-77	4.4	12
25	Novel Grb14-Mediated Cross Talk between Insulin and p62/Nrf2 Pathways Regulates Liver Lipogenesis and Selective Insulin Resistance. *Molecular and Cellular Biology*, **2016**, 36, 2168-81	4.8	12
24	The effects of hyperinsulinemia and hyperglycemia on GLUT4 and hexokinase II mRNA and protein in rat skeletal muscle and adipose tissue. *Diabetes*, **1993**, 42, 922-929	0.9	11
23	New targets for NAFLD. *JHEP Reports*, **2021**, 3, 100346	10.3	10
22	Influence of the weaning diet on the changes of glucose metabolism and of insulin sensitivity. *Proceedings of the Nutrition Society*, **1993**, 52, 325-33	2.9	7
21	O-GlcNacylation Links TxNIP to Inflammasome Activation in Pancreatic β Cells. *Frontiers in Endocrinology*, **2019**, 10, 291	5.7	6
20	Hidden variant of ChREBP in fat links lipogenesis to insulin sensitivity. *Cell Metabolism*, **2012**, 15, 795-7	24.6	6
19	Insulin activates hepatic Wnt/β catenin signaling through stearoyl-CoA desaturase 1 and Porcupine. *Scientific Reports*, **2020**, 10, 5186	4.9	5

18	Mouse models of insulin resistance and type 2 diabetes. *Annales DrEndocrinologie*, **2004**, 65, 51-9	1.7	5
17	Variable expression of hepatic glucokinase in mice is due to a regulational locus that cosegregates with the glucokinase gene. *Genomics*, **1997**, 45, 185-93	4.3	4
16	Integrative study of diet-induced mouse models of NAFLD identifies PPAR□as a sexually dimorphic drug target. *Gut*, **2021**,	19.2	4
15	Conversion of a dietary fructose: new clues from the gut microbiome. *Nature Metabolism*, **2020**, 2, 217-218	14.6	3
14	Adaptations of glucose metabolism in white-fat adipocytes at weaning in the rat are concomitant with specific gene expression. *Biochemical Society Transactions*, **1990**, 18, 857-8	5.1	3
13	Little caves ameliorate hepatic insulin signaling. Focus on "caveolin gene transfer improves glucose metabolism in diabetic mice". *American Journal of Physiology - Cell Physiology*, **2010**, 298, C442-5	5.4	2
12	The absence of hepatic glucose-6 phosphatase/ChREBP couple is incompatible with survival in mice. *Molecular Metabolism*, **2021**, 43, 101108	8.8	2
11	Analysis of the Cre-mediated recombination driven by rat insulin promoter in embryonic and adult mouse pancreas **2000**, 26, 139		2
10	Gastric bypass surgery in NASH: a major modulator of hepatic mitochondrial dysfunction. *Gut*, **2015**, 64, 524-6	19.2	1
9	Insulin resistance per se drives early and reversible dysbiosis-mediated gut barrier impairment and bactericidal dysfunction.. *Molecular Metabolism*, **2022**, 57, 101438	8.8	1
8	Dual regulation of TxNIP by ChREBP and FoxO1 in liver. *IScience*, **2021**, 24, 102218	6.1	1
7	ATGL-dependent white adipose tissue lipolysis controls hepatocyte PPAR□activity		1
6	A new pathway to eSCAPe lipotoxicity. *Clinics and Research in Hepatology and Gastroenterology*, **2018**, 42, 3-5	2.4	1
5	Nuclear HMGB1 protects from nonalcoholic fatty liver disease through negative regulation of liver X receptor.. *Science Advances*, **2022**, 8, eabg9055	14.3	0
4	Regulation of glucose sensing in liver: a role for the transcription factor ChREBP. *Chemistry and Physics of Lipids*, **2008**, 154, S17	3.7	
3	Transcriptional Regulation of Hepatic Genes by Insulin and Glucose **2006**, 106-116		
2	Use of a Cre/Loxp Strategy in Mice to Determine the Cell-Specific Roles of Glucokinase in Mody-2. *Growth Hormone*, **2001**, 351-362		
1	R□le des h□patokines dans le dialogue inter-organes en physiologie et physiopathologie. *Medecine Des Maladies Metaboliques*, **2020**, 14, 345-352	0.1	