Catherine Postic

List of Publications by Year
in descending order

90 papers	12,488 citations	61984 43 h-index	46799 89 g-index
98 all docs	98 docs citations	98 times ranked	16082 citing authors

#	Article	IF	Citations
1	Dual Roles for Glucokinase in Glucose Homeostasis as Determined by Liver and Pancreatic Î² Cell-specific Gene Knock-outs Using Cre Recombinase. Journal of Biological Chemistry, 1999, 274, 305-315.	3.4	1,177
2	Tissue-Specific Knockout of the Insulin Receptor in Pancreatic Î² Cells Creates an Insulin Secretory Defect Similar to that in Type 2 Diabetes. Cell, 1999, 96, 329-339.	28.9	1,093
3	Loss of Insulin Signaling in Hepatocytes Leads to Severe Insulin Resistance and Progressive Hepatic Dysfunction. Molecular Cell, 2000, 6, 87-97.	9.7	1,077
4	Contribution of de novo fatty acid synthesis to hepatic steatosis and insulin resistance: lessons from genetically engineered mice. Journal of Clinical Investigation, 2008, 118, 829-838.	8.2	984
5	Liver PPARÎ± is crucial for whole-body fatty acid homeostasis and is protective against NAFLD. Gut, 2016, 65, 1202-1214.	12.1	494
6	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. Nature Medicine, 2018, 24, 1070-1080.	30.7	465
7	Liver-Specific Inhibition of ChREBP Improves Hepatic Steatosis and Insulin Resistance in <i>ob/ob</i> Mice. Diabetes, 2006, 55, 2159-2170.	0.6	387
8	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, 20314-20326.	3.4	376
9	Role of the liver in the control of carbohydrate and lipid homeostasis. Diabetes and Metabolism, 2004, 30, 398-408.	2.9	359
10	DNA excision in liver by an albumin-Cre transgene occurs progressively with age. Genesis, 2000, 26, 149-150.	1.6	339
11	The lipogenic transcription factor ChREBP dissociates hepatic steatosis from insulin resistance in mice and humans. Journal of Clinical Investigation, 2012, 122, 2176-2194.	8.2	319
12	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, 81-86.	2.6	292
13	Brain glucagon-like peptide-1 increases insulin secretion and muscle insulin resistance to favor hepatic glycogen storage. Journal of Clinical Investigation, 2005, 115, 3554-3563.	8.2	263
14	Polyunsaturated fatty acids suppress glycolytic and lipogenic genes through the inhibition of ChREBP nuclear protein translocation. Journal of Clinical Investigation, 2005, 115, 2843-2854.	8.2	256
15	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, 4316-4331.	8.2	245
16	The role of the lipogenic pathway in the development of hepatic steatosis. Diabetes and Metabolism, 2008, 34, 643-648.	2.9	234
17	Hepatocyte-Specific Mutation Establishes Retinoid X Receptor Î± as a Heterodimeric Integrator of Multiple Physiological Processes in the Liver. Molecular and Cellular Biology, 2000, 20, 4436-4444.	2.3	227
18	ChREBP, a Transcriptional Regulator of Glucose and Lipid Metabolism. Annual Review of Nutrition, 2007, 27, 179-192.	10.1	223

#	Article	IF	Citations
19	Phosphoenolpyruvate Carboxykinase Is Necessary for the Integration of Hepatic Energy Metabolism. Molecular and Cellular Biology, 2000, 20, 6508-6517.	2.3	213
20	<i>O</i>-GlcNAcylation Increases ChREBP Protein Content and Transcriptional Activity in the Liver. Diabetes, 2011, 60, 1399-1413.	0.6	180
21	Sweet Sixteenth for ChREBP: Established Roles and Future Goals. Cell Metabolism, 2017, 26, 324-341.	16.2	165
22	Novel insights into ChREBP regulation and function. Trends in Endocrinology and Metabolism, 2013, 24, 257-268.	7.1	164
23	Analysis of the Cre-mediated recombination driven by rat insulin promoter in embryonic and adult mouse pancreas. Genesis, 2000, 26, 139-142.	1.6	163
24	ChREBP, but not LXRs, is required for the induction of glucose-regulated genes in mouse liver. Journal of Clinical Investigation, 2008, 118, 956-64.	8.2	158
25	Cell-specific Roles of Glucokinase in Glucose Homeostasis. Endocrine Reviews, 2001, 56, 195-218.	6.7	143
26	Effects of Increased Glucokinase Gene Copy Number on Glucose Homeostasis and Hepatic Glucose Metabolism. Journal of Biological Chemistry, 1997, 272, 22570-22575.	3.4	136
27	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.	3.7	134
28	Distinct regulation of adiponutrin/PNPLA3 gene expression by the transcription factors ChREBP and SREBP1c in mouse and human hepatocytes. Journal of Hepatology, 2011, 55, 145-153.	3.7	116
29	Carbohydrate Sensing Through the Transcription Factor ChREBP. Frontiers in Genetics, 2019, 10, 472.	2.3	114
30	Role of ChREBP in hepatic steatosis and insulin resistance. FEBS Letters, 2008, 582, 68-73.	2.8	113
31	Farnesoid X Receptor Inhibits the Transcriptional Activity of Carbohydrate Response Element Binding Protein in Human Hepatocytes. Molecular and Cellular Biology, 2013, 33, 2202-2211.	2.3	110
32	A Specific ChREBP and PPARÎ± Cross-Talk Is Required for the Glucose-Mediated FGF21 Response. Cell Reports, 2017, 21, 403-416.	6.4	99
33	LRH-1â€“dependent glucose sensing determines intermediary metabolism in liver. Journal of Clinical Investigation, 2012, 122, 2817-2826.	8.2	94
34	Hepatokines: unlocking the multi-organ network in metabolic diseases. Diabetologia, 2015, 58, 1699-1703.	6.3	83
35	Hepatocyte-specific deletion of PparÎ± promotes NAFLD in the context of obesity. Scientific Reports, 2020, 10, 6489.	3.3	80
36	New targets for NAFLD. JHEP Reports, 2021, 3, 100346.	4.9	79

#	Article	IF	Citations
37	Hepatic Gene Regulation by Glucose and Polyunsaturated Fatty Acids: A Role for ChREBP. Journal of Nutrition, 2006, 136, 1145-1149.	2.9	71
38	Cross-regulation of hepatic glucose metabolism via ChREBP and nuclear receptors. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 995-1006.	3.8	70
39	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, 1000-1004.	3.4	65
40	The histone demethylase Phf2 acts as a molecular checkpoint to prevent NAFLD progression during obesity. Nature Communications, 2018, 9, 2092.	12.8	63
41	Glucokinase Gene Locus Transgenic Mice Are Resistant to the Development of Obesity-Induced Type 2 Diabetes. Diabetes, 2001, 50, 622-629.	0.6	61
42	Novel role for carbohydrate responsive element binding protein in the control of ethanol metabolism and susceptibility to binge drinking. Hepatology, 2015, 62, 1086-1100.	7.3	51
43	Cell-specific Expression and Regulation of a Glucokinase Gene Locus Transgene. Journal of Biological Chemistry, 1997, 272, 22564-22569.	3.4	50
44	Dietary oleic acid regulates hepatic lipogenesis through a liver X receptor-dependent signaling. PLoS ONE, 2017, 12, e0181393.	2.5	47
45	MondoA/ChREBP: The usual suspects of transcriptional glucose sensing; Implication in pathophysiology. Metabolism: Clinical and Experimental, 2017, 70, 133-151.	3.4	44
46	Cellular and Molecular Mechanisms of Adipose Tissue Plasticity in Muscle Insulin Receptor Knockout Mice. Endocrinology, 2004, 145, 1926-1932.	2.8	43
47	Interaction between hormone-sensitive lipase and ChREBP in fat cells controls insulin sensitivity. Nature Metabolism, 2019, 1, 133-146.	11.9	42
48	Essential fatty acids deficiency promotes lipogenic gene expression and hepatic steatosis through the liver X receptor. Journal of Hepatology, 2013, 58, 984-992.	3.7	41
49	Integration of ChREBP-Mediated Glucose Sensing into Whole Body Metabolism. Physiology, 2015, 30, 428-437.	3.1	41
50	Insights into the role of hepatocyte PPARÎ± activity in response to fasting. Molecular and Cellular Endocrinology, 2018, 471, 75-88.	3.2	40
51	Dysregulated CRTC1 activity is a novel component of PGE2 signaling that contributes to colon cancer growth. Oncogene, 2016, 35, 2602-2614.	5.9	38
52	MondoA Is an Essential Glucose-Responsive Transcription Factor in Human Pancreatic Î²-Cells. Diabetes, 2018, 67, 461-472.	0.6	36
53	The Transcription Factor COUP-TFII Is Negatively Regulated by Insulin and Glucose via Foxo1- and ChREBP-Controlled Pathways. Molecular and Cellular Biology, 2008, 28, 6568-6579.	2.3	35
54	Adipocyte Glucocorticoid Receptor Deficiency Promotes Adipose Tissue Expandability and Improves the Metabolic Profile Under Corticosterone Exposure. Diabetes, 2019, 68, 305-317.	0.6	35

#	Article	IF	Citations
55	Cloning and Characterization of the Mouse Glucokinase Gene Locus and Identification of Distal Liver-Specific DNase I Hypersensitive Sites. Genomics, 1995, 29, 740-750.	2.9	34
56	Overexpression of Î²2-adrenergic receptors in mouse liver alters the expression of gluconeogenic and glycolytic enzymes. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E715-E722.	3.5	28
57	O-GlcNAcylation Links ChREBP and FXR to Glucose-Sensing. Frontiers in Endocrinology, 2014, 5, 230.	3.5	28
58	Integrative study of diet-induced mouse models of NAFLD identifies PPARÎ± as a sexually dimorphic drug target. Gut, 2022, 71, 807-821.	12.1	26
59	Carbohydrate responsive element binding protein and lipid homeostasis. Current Opinion in Lipidology, 2008, 19, 301-306.	2.7	25
60	Emerging role of miR-21 in non-alcoholic fatty liver disease. Gut, 2016, 65, 1781-1783.	12.1	25
61	Matrix metalloproteinase 11 protects from diabesity and promotes metabolic switch. Scientific Reports, 2016, 6, 25140.	3.3	22
62	Phosphoenolpyruvate Carboxykinase Is Necessary for the Integration of Hepatic Energy Metabolism. Molecular and Cellular Biology, 2000, 20, 6508-6517.	2.3	19
63	Effects of altered glucokinase gene copy number on blood glucose homoeostasis. Biochemical Society Transactions, 1997, 25, 113-117.	3.4	18
64	Novel Grb14-Mediated Cross Talk between Insulin and p62/Nrf2 Pathways Regulates Liver Lipogenesis and Selective Insulin Resistance. Molecular and Cellular Biology, 2016, 36, 2168-2181.	2.3	18
65	Growth factor receptor binding protein 14 inhibition triggers insulinâ€induced mouse hepatocyte proliferation and is associated with hepatocellular carcinoma. Hepatology, 2017, 65, 1352-1368.	7.3	17
66	Liver Reptin/RUVBL2 controls glucose and lipid metabolism with opposite actions on mTORC1 and mTORC2 signalling. Gut, 2018, 67, 2192-2203.	12.1	17
67	Insulin activates hepatic Wnt/Î²-catenin signaling through stearoyl-CoA desaturase 1 and Porcupine. Scientific Reports, 2020, 10, 5186.	3.3	17
68	O-GlcNacylation Links TxNIP to Inflammasome Activation in Pancreatic Î² Cells. Frontiers in Endocrinology, 2019, 10, 291.	3.5	16
69	Insulin resistance per se drives early and reversible dysbiosis-mediated gut barrier impairment and bactericidal dysfunction. Molecular Metabolism, 2022, 57, 101438.	6.5	16
70	Calpain activation is required for homocysteine-mediated hepatic degradation of inhibitor Ikappa B alpha. Molecular Genetics and Metabolism, 2009, 97, 114-120.	1.1	15
71	The absence of hepatic glucose-6 phosphatase/ChREBP couple is incompatible with survival in mice. Molecular Metabolism, 2021, 43, 101108.	6.5	14
72	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.	0.6	14

#	Article	IF	Citations
73	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.	3.2	13
74	Dual regulation of TxNIP by ChREBP and FoxO1 in liver. IScience, 2021, 24, 102218.	4.1	10
75	Influence of the weaning diet on the changes of glucose metabolism and of insulin sensitivity. Proceedings of the Nutrition Society, 1993, 52, 325-333.	1.0	9
76	Therapeutic potential of nicotinamide adenine dinucleotide for nonalcoholic fatty liver disease. Hepatology, 2016, 63, 1074-1077.	7.3	8
77	Nuclear HMGB1 protects from nonalcoholic fatty liver disease through negative regulation of liver X receptor. Science Advances, 2022, 8, eabg9055.	10.3	7
78	Mouse models of insulin resistance and type 2 diabetes. Annales D'Endocrinologie, 2004, 65, 51-59.	1.4	6
79	Hidden Variant of ChREBP in Fat Links Lipogenesis to Insulin Sensitivity. Cell Metabolism, 2012, 15, 795-797.	16.2	6
80	Variable Expression of Hepatic Glucokinase in Mice Is Due to a Regulational Locus That Cosegregates with the Glucokinase Gene. Genomics, 1997, 45, 185-193.	2.9	4
81	Conversion of a dietary fructose: new clues from the gut microbiome. Nature Metabolism, 2020, 2, 217-218.	11.9	4
82	ChREBPÎ² is dispensable for the control of glucose homeostasis and energy balance. JCI Insight, 2022, 7, .	5.0	4
83	Adaptations of glucose metabolism in white-fat adipocytes at weaning in the rat are concomitant with specific gene expression. Biochemical Society Transactions, 1990, 18, 857-858.	3.4	3
84	<i>Little caves ameliorate hepatic insulin signaling</i>. Focus on â€œCaveolin gene transfer improves glucose metabolism in diabetic miceâ€ American Journal of Physiology - Cell Physiology, 2010, 298, C442-C445.	4.6	2
85	A new pathway to eSCAPe lipotoxicity. Clinics and Research in Hepatology and Gastroenterology, 2018, 42, 3-5.	1.5	2
86	Analysis of the Cre-mediated recombination driven by rat insulin promoter in embryonic and adult mouse pancreas. , 2000, 26, 139.		2
87	Gastric bypass surgery in NASH: a major modulator of hepatic mitochondrial dysfunction. Gut, 2015, 64, 524-526.	12.1	1
88	Transcriptional Regulation of Hepatic Genes by Insulin and Glucose. , 2006, , 106-116.		0
89	Regulation of glucose sensing in liver: a role for the transcription factor ChREBP. Chemistry and Physics of Lipids, 2008, 154, S17.	3.2	0
90	Use of a Cre/Loxp Strategy in Mice to Determine the Cell-Specific Roles of Glucokinase in Mody-2. Growth Hormone, 2001, , 351-362.	0.2	0