Thierry Alquier

List of Publications by Year
in descending order

49 papers	6,711 citations	159525 30 h-index	175177 52 g-index
53 all docs	53 docs citations	53 times ranked	9157 citing authors

#	Article	IF	Citations
1	AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. Cell Metabolism, 2005, 1, 15-25.	7.2	2,541
2	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. Nature, 2004, 428, 569-574.	13.7	1,464
3	Diet-induced Obesity Alters AMP Kinase Activity in Hypothalamus and Skeletal Muscle. Journal of Biological Chemistry, 2006, 281, 18933-18941.	1.6	246
4	GPR40 Is Necessary but Not Sufficient for Fatty Acid Stimulation of Insulin Secretion In Vivo. Diabetes, 2007, 56, 1087-1094.	0.3	234
5	The Fatty Acid Receptor GPR40 Plays a Role in Insulin Secretion In Vivo After High-Fat Feeding. Diabetes, 2008, 57, 2432-2437.	0.3	151
6	An Acetate-Specific GPCR, FFAR2, Regulates Insulin Secretion. Molecular Endocrinology, 2015, 29, 1055-1066.	3.7	139
7	Mitochondrial Reactive Oxygen Species Are Required for Hypothalamic Glucose Sensing. Diabetes, 2006, 55, 2084-2090.	0.3	136
8	Deletion of GPR40 Impairs Glucose-Induced Insulin Secretion In Vivo in Mice Without Affecting Intracellular Fuel Metabolism in Islets. Diabetes, 2009, 58, 2607-2615.	0.3	118
9	Lipid receptors and islet function: therapeutic implications?. Diabetes, Obesity and Metabolism, 2009, 11, 10-20.	2.2	101
10	Dampened Mesolimbic Dopamine Function and Signaling by Saturated but not Monounsaturated Dietary Lipids. Neuropsychopharmacology, 2016, 41, 811-821.	2.8	100
11	Leptin Suppresses the Rewarding Effects of Running via STAT3 Signaling in Dopamine Neurons. Cell Metabolism, 2015, 22, 741-749.	7.2	89
12	Role of Hypothalamic Adenosine 5â€²-Monophosphate-Activated Protein Kinase in the Impaired Counterregulatory Response Induced by Repetitive Neuroglucopenia. Endocrinology, 2007, 148, 1367-1375.	1.4	80
13	Brain glucose sensing mechanism and glucose homeostasis. Current Opinion in Clinical Nutrition and Metabolic Care, 2002, 5, 539-543.	1.3	78
14	Nucleus accumbens inflammation mediates anxiodepressive behavior and compulsive sucrose seeking elicited by saturated dietary fat. Molecular Metabolism, 2018, 10, 1-13.	3.0	78
15	Defective insulin secretory response to intravenous glucose in C57Bl/6J compared to C57Bl/6N mice. Molecular Metabolism, 2014, 3, 848-854.	3.0	77
16	Phenotypic Characterization of MIP-CreERT1Lphi Mice With Transgene-Driven Islet Expression of Human Growth Hormone. Diabetes, 2015, 64, 3798-3807.	0.3	77
17	Acute Intracarotid Glucose Injection Towards the Brain Induces Specific c-fos Activation in Hypothalamic Nuclei: Involvement of Astrocytes in Cerebral Glucose-Sensing in Rats. Journal of Neuroendocrinology, 2004, 16, 464-471.	1.2	76
18	The Free Fatty Acid Receptor G Protein-coupled Receptor 40 (GPR40) Protects from Bone Loss through Inhibition of Osteoclast Differentiation*. Journal of Biological Chemistry, 2013, 288, 6542-6551.	1.6	76

#	Article	IF	Citations
19	Considerations and guidelines for mouse metabolic phenotyping in diabetes research. Diabetologia, 2018, 61, 526-538.	2.9	67
20	Glucose activates free fatty acid receptor 1 gene transcription via phosphatidylinositol-3-kinase-dependent <i>O</i> -GlcNAcylation of pancreas-duodenum homeobox-1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2376-2381.	3.3	56
21	The gliotransmitter ACBP controls feeding and energy homeostasis via the melanocortin system. Journal of Clinical Investigation, 2019, 129, 2417-2430.	3.9	52
22	A novel role for central <scp>ACBP</scp>/<scp>DBI</scp> as a regulator of longâ€chain fatty acid metabolism in astrocytes. Journal of Neurochemistry, 2015, 133, 253-265.	2.1	50
23	Glucose Regulates Hypothalamic Long-chain Fatty Acid Metabolism via AMP-activated Kinase (AMPK) in Neurons and Astrocytes. Journal of Biological Chemistry, 2013, 288, 37216-37229.	1.6	49
24	PGC-1 coactivators in Î²-cells regulate lipid metabolism and are essential for insulin secretion coupled to fatty acids. Molecular Metabolism, 2015, 4, 811-822.	3.0	46
25	Central Agonism of GPR120 Acutely Inhibits Food Intake and Food Reward and Chronically Suppresses Anxiety-Like Behavior in Mice. International Journal of Neuropsychopharmacology, 2016, 19, pyw014.	1.0	46
26	Perturbations in the lipid profile of individuals with newly diagnosed type 1 diabetes mellitus: Lipidomics analysis of a Diabetes Antibody Standardization Program sample subset. Clinical Biochemistry, 2010, 43, 948-956.	0.8	38
27	Saturated high-fat feeding independent of obesity alters hypothalamus-pituitary-adrenal axis function but not anxiety-like behaviour. Psychoneuroendocrinology, 2017, 83, 142-149.	1.3	37
28	Fish oil supplementation alleviates metabolic and anxiodepressive effects of diet-induced obesity and associated changes in brain lipid composition in mice. International Journal of Obesity, 2020, 44, 1936-1945.	1.6	33
29	GPR40: Good Cop, Bad Cop?. Diabetes, 2009, 58, 1035-1036.	0.3	32
30	Fatty Acid Receptor Gpr40 Mediates Neuromicrovascular Degeneration Induced by Transarachidonic Acids in Rodents. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 954-961.	1.1	32
31	Î±/Î²-Hydrolase Domain 6 in the Ventromedial Hypothalamus Controls Energy Metabolism Flexibility. Cell Reports, 2016, 17, 1217-1226.	2.9	29
32	Insulin Inhibits Nrf2 Gene Expression via Heterogeneous Nuclear Ribonucleoprotein F/K in Diabetic Mice. Endocrinology, 2017, 158, 903-919.	1.4	28
33	Altered Glut4 mRNA levels in specific brain areas of hyperglycemic-hyperinsulinemic rats. Neuroscience Letters, 2001, 308, 75-78.	1.0	23
34	The autonomic nervous system regulates pancreatic Î²-cell proliferation in adult male rats. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E234-E243.	1.8	23
35	Oleic Acid in the Ventral Tegmental Area Inhibits Feeding, Food Reward, and Dopamine Tone. Neuropsychopharmacology, 2018, 43, 607-616.	2.8	21
36	Neuronal control of peripheral nutrient partitioning. Diabetologia, 2020, 63, 673-682.	2.9	21

#	Article	IF	Citations
37	From benzodiazepines to fatty acids and beyond: revisiting the role of ACBP/DBI. Trends in Endocrinology and Metabolism, 2021, 32, 890-903.	3.1	17
38	Deletion of Apoptosis Signal-Regulating Kinase 1 (ASK1) Protects Pancreatic Beta-Cells from Stress-Induced Death but Not from Glucose Homeostasis Alterations under Pro-Inflammatory Conditions. PLoS ONE, 2014, 9, e112714.	1.1	16
39	Cerebral Insulin Increases Brain Response to Glucose. Journal of Neuroendocrinology, 2003, 15, 75-79.	1.2	15
40	Peripheral Signals Set the Tone for Central Regulation of Metabolism. Endocrinology, 2004, 145, 4022-4024.	1.4	13
41	In vivo Ultrafast Quantitative Ultrasound and Shear Wave Elastography Imaging on Farm-Raised Duck Livers during Force Feeding. Ultrasound in Medicine and Biology, 2020, 46, 1715-1726.	0.7	12
42	Distinct Basal Metabolism in Three Mouse Models of Neurodevelopmental Disorders. ENeuro, 2021, 8, ENEURO.0292-20.2021.	0.9	12
43	DBI/ACBP loss-of-function does not affect anxiety-like behaviour but reduces anxiolytic responses to diazepam in mice. Behavioural Brain Research, 2016, 313, 201-207.	1.2	11
44	Intrauterine Hyperglycemia Increases Insulin Binding Sites but Not Glucose Transporter Expression in Discrete Brain Areas in Term Rat Fetuses. Pediatric Research, 2004, 56, 263-267.	1.1	10
45	Free Fatty Acid Receptor 1: A New Drug Target for Type 2 Diabetes?. Canadian Journal of Diabetes, 2012, 36, 275-280.	0.4	8
46	Ca2+/Calmodulin-Dependent Protein Kinase Kinase Is Not Involved in Hypothalamic AMP-Activated Protein Kinase Activation by Neuroglucopenia. PLoS ONE, 2012, 7, e36335.	1.1	7
47	The Tetracycline-Controlled Transactivator (Tet-On/Off) System in Î²-Cells Reduces Insulin Expression and Secretion in Mice. Diabetes, 2021, 70, 2850-2859.	0.3	7
48	Lipid signalling in the mesolimbic dopamine pathway. Neuropsychopharmacology, 2019, 44, 221-222.	2.8	4
49	AstroGenesis: And there was leptin on the sixthÂday. Molecular Metabolism, 2015, 4, 755-757.	3.0	2