Serge Luquet

List of Publications by Year in Descending Order

86 papers	5,912 citations	37 h-index	76 g-index
106 ext. papers	6,865 ext. citations	9.7 avg, IF	5.29 L-index

#	Paper	IF	Citations
86	Sonic Hedgehog receptor Patched deficiency in astrocytes enhances glucose metabolism in mice. *Molecular Metabolism*, **2021**, 47, 101172	8.8	4
85	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. *Molecular Metabolism*, **2021**, 48, 101206	8.8	24
84	Further Evidence that Habitual Consumption of Sucralose with, but Not without, Carbohydrate Alters Glucose Metabolism. *Cell Metabolism*, **2021**, 33, 227-228	24.6	
83	Dietary lipids as regulators of reward processes: multimodal integration matters. *Trends in Endocrinology and Metabolism*, **2021**, 32, 693-705	8.8	1
82	Ghrelin treatment induces rapid and delayed increments of food intake: a heuristic model to explain ghrelin's orexigenic effects. *Cellular and Molecular Life Sciences*, **2021**, 78, 6689-6708	10.3	3
81	Cardiolipin content controls mitochondrial coupling and energetic efficiency in muscle. *Science Advances*, **2021**, 7,	14.3	7
80	Hypothalamic Regulation of Glucose Homeostasis: Is the Answer in the Matrix?. *Cell Metabolism*, **2020**, 32, 701-703	24.6	0
79	Hepatic NAPE-PLD Is a Key Regulator of Liver Lipid Metabolism. *Cells*, **2020**, 9,	7.9	8
78	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. *NeuroImage*, **2020**, 220, 117069	7.9	5
77	Short-Term Consumption of Sucralose with, but Not without, Carbohydrate Impairs Neural and Metabolic Sensitivity to Sugar in Humans. *Cell Metabolism*, **2020**, 31, 493-502.e7	24.6	42
76	Type 2 diabetes risk gene Dusp8 regulates hypothalamic Jnk signaling and insulin sensitivity. *Journal of Clinical Investigation*, **2020**, 130, 6093-6108	15.9	9
75	Lkb1 suppresses amino acid-driven gluconeogenesis in the liver. *Nature Communications*, **2020**, 11, 6127	17.4	5
74	A surrogate of Roux-en-Y gastric bypass (the enterogastro anastomosis surgery) regulates multiple beta-cell pathways during resolution of diabetes in ob/ob mice. *EBioMedicine*, **2020**, 58, 102895	8.8	6
73	Intestinal NAPE-PLD contributes to short-term regulation of food intake via gut-to-brain axis. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E647-E657	6	3
72	and expression in GABAergic neurons controls behavior, metabolism, healthy aging and lifespan. *Aging*, **2019**, 11, 6638-6656	5.6	14
71	MCH Regulates SIRT1/FoxO1 and Reduces POMC Neuronal Activity to Induce Hyperphagia, Adiposity, and Glucose Intolerance. *Diabetes*, **2019**, 68, 2210-2222	0.9	16
70	Intestinal epithelial N-acylphosphatidylethanolamine phospholipase D links dietary fat to metabolic adaptations in obesity and steatosis. *Nature Communications*, **2019**, 10, 457	17.4	66

69	A readout of metabolic efficiency in arylamine N-acetyltransferase-deficient mice reveals minor energy metabolism changes. *FEBS Letters*, **2019**, 593, 831-841	3.8	1
68	Adipocyte Glucocorticoid Receptor Deficiency Promotes Adipose Tissue Expandability and Improves the Metabolic Profile Under Corticosterone Exposure. *Diabetes*, **2019**, 68, 305-317	0.9	16
67	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. *Nature Neuroscience*, **2019**, 22, 7-14	25.5	108
66	Overexpression of the DYRK1A Gene (Dual-Specificity Tyrosine Phosphorylation-Regulated Kinase 1A) Induces Alterations of the Serotoninergic and Dopaminergic Processing in Murine Brain Tissues. *Molecular Neurobiology*, **2018**, 55, 3822-3831	6.2	12
65	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. *Cell Reports*, **2018**, 22, 1745-1759	10.6	21
64	Carnitine acetyltransferase (Crat) in hunger-sensing AgRP neurons permits adaptation to calorie restriction. *FASEB Journal*, **2018**, 32, fj201800634R	0.9	10
63	Lipoprotein Lipase Expression in Hypothalamus Is Involved in the Central Regulation of Thermogenesis and the Response to Cold Exposure. *Frontiers in Endocrinology*, **2018**, 9, 103	5.7	3
62	Endocannabinoid and nitric oxide systems of the hypothalamic paraventricular nucleus mediate effects of NPY on energy expenditure. *Molecular Metabolism*, **2018**, 18, 120-133	8.8	9
61	Lipoprotein lipase in hypothalamus is a key regulator of body weight gain and glucose homeostasis in mice. *Diabetologia*, **2017**, 60, 1314-1324	10.3	19
60	DRD2: Bridging the Genome and Ingestive Behavior. *Trends in Cognitive Sciences*, **2017**, 21, 372-384	14	22
59	Disruption of Lipid Uptake in Astroglia Exacerbates Diet-Induced Obesity. *Diabetes*, **2017**, 66, 2555-2563	0.9	38
58	The LXCXE Retinoblastoma Protein-Binding Motif of FOG-2 Regulates Adipogenesis. *Cell Reports*, **2017**, 21, 3524-3535	10.6	3
57	Odor-Induced Neuronal Rhythms in the Olfactory Bulb Are Profoundly Modified in ob/ob Obese Mice. *Frontiers in Physiology*, **2017**, 8, 2	4.6	14
56	Triglyceride sensing in the reward circuitry: A new insight in feeding behaviour regulation. *Biochimie*, **2016**, 120, 75-80	4.6	14
55	Dietary triglycerides as signaling molecules that influence reward and motivation. *Current Opinion in Behavioral Sciences*, **2016**, 9, 126-135	4	9
54	NOV/CCN3: A New Adipocytokine Involved in Obesity-Associated Insulin Resistance. *Diabetes*, **2016**, 65, 2502-15	0.9	34
53	Lipidomics profile of a NAPE-PLD KO mouse provides evidence of a broader role of this enzyme in lipid metabolism in the brain. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 491-500	5	69
52	Central CCL2 signaling onto MCH neurons mediates metabolic and behavioral adaptation to inflammation. *EMBO Reports*, **2016**, 17, 1738-1752	6.5	29

51	Muscle expression of a malonyl-CoA-insensitive carnitine palmitoyltransferase-1 protects mice against high-fat/high-sucrose diet-induced insulin resistance. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 311, E649-60	6	8
50	Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. *Molecular Metabolism*, **2016**, 5, 807-822	8.8	26
49	Astrocytic Insulin Signaling Couples Brain Glucose Uptake with Nutrient Availability. *Cell*, **2016**, 166, 867-880	36.2	256
48	Adipose tissue NAPE-PLD controls fat mass development by altering the browning process and gut microbiota. *Nature Communications*, **2015**, 6, 6495	17.4	116
47	Irf5 deficiency in macrophages promotes beneficial adipose tissue expansion and insulin sensitivity during obesity. *Nature Medicine*, **2015**, 21, 610-8	50.5	130
46	Brain lipid sensing and the neural control of energy balance. *Molecular and Cellular Endocrinology*, **2015**, 418 Pt 1, 3-8	4.4	52
45	Palatability Can Drive Feeding Independent of AgRP Neurons. *Cell Metabolism*, **2015**, 22, 646-57	24.6	98
44	Mesolimbic lipid sensing and the regulation of feeding behaviour. *OCL - Oilseeds and Fats, Crops and Lipids*, **2015**, 22, D407	1.5	
43	Myostatin is a key mediator between energy metabolism and endurance capacity of skeletal muscle. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R444-54	3.2	50
42	Intestinal deletion of leptin signaling alters activity of nutrient transporters and delayed the onset of obesity in mice. *FASEB Journal*, **2014**, 28, 4100-10	0.9	25
41	The hypothalamic arcuate nucleus and the control of peripheral substrates. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2014**, 28, 725-37	6.5	73
40	Hypothalamic tanycytes: gatekeepers to metabolic control. *Cell Metabolism*, **2014**, 19, 173-5	24.6	25
39	Glucocorticoid receptor gene inactivation in dopamine-innervated areas selectively decreases behavioral responses to amphetamine. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 35	3.5	19
38	Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status. *Nature Communications*, **2014**, 5, 5648	17.4	160
37	Oxytocin reverses ovariectomy-induced osteopenia and body fat gain. *Endocrinology*, **2014**, 155, 1340-52	4.8	46
36	Hippocampal lipoprotein lipase regulates energy balance in rodents. *Molecular Metabolism*, **2014**, 3, 167-78	8.8	39
35	La détection centrale des lipides et la régulation du comportement alimentaire : implication dans l'obésité. *Cahiers De Nutrition Et De Dietetique*, **2014**, 49, 32-43	0.2	
34	Central lipid detection and the regulation of feeding behavior. *Oleagineux Corps Gras Lipides*, **2013**, 20, 93-101		

33	Tanycytic VEGF-A boosts blood-hypothalamus barrier plasticity and access of metabolic signals to the arcuate nucleus in response to fasting. *Cell Metabolism*, **2013**, 17, 607-17	24.6	224
32	High-density lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. *Circulation*, **2013**, 128, 2364-71	16.7	47
31	Hypothalamic regulation of energy balance: a key role for DICER miRNA processing in arcuate POMC neurons. *Molecular Metabolism*, **2012**, 2, 55-7	8.8	6
30	Hypothalamic AgRP-neurons control peripheral substrate utilization and nutrient partitioning. *EMBO Journal*, **2012**, 31, 4276-88	13	83
29	Arcuate AgRP neurons and the regulation of energy balance. *Frontiers in Endocrinology*, **2012**, 3, 169	5.7	50
28	The multiple roles of fatty acid handling proteins in brain. *Frontiers in Physiology*, **2012**, 3, 385	4.6	39
27	Laforin, a dual specificity phosphatase involved in Lafora disease, regulates insulin response and whole-body energy balance in mice. *Human Molecular Genetics*, **2011**, 20, 2571-84	5.6	14
26	Role of hypothalamic melanocortin system in adaptation of food intake to food protein increase in mice. *PLoS ONE*, **2011**, 6, e19107	3.7	20
25	Lipid-induced peroxidation in the intestine is involved in glucose homeostasis imbalance in mice. *PLoS ONE*, **2011**, 6, e21184	3.7	7
24	The nutritional induction of COUP-TFII gene expression in ventromedial hypothalamic neurons is mediated by the melanocortin pathway. *PLoS ONE*, **2010**, 5, e13464	3.7	7
23	A Western-like fat diet is sufficient to induce a gradual enhancement in fat mass over generations. *Journal of Lipid Research*, **2010**, 51, 2352-61	6.3	125
22	Exploring functional beta-cell heterogeneity in vivo using PSA-NCAM as a specific marker. *PLoS ONE*, **2009**, 4, e5555	3.7	31
21	GRP78 expression inhibits insulin and ER stress-induced SREBP-1c activation and reduces hepatic steatosis in mice. *Journal of Clinical Investigation*, **2009**, 119, 1201-15	15.9	515
20	Short-term adaptation of postprandial lipoprotein secretion and intestinal gene expression to a high-fat diet. *American Journal of Physiology - Renal Physiology*, **2009**, 296, G782-92	5.1	41
19	Le contrÎle central de la balance Ênergtique. *Cahiers De Nutrition Et De Dietetique*, **2009**, 44, 17-25	0.2	1
18	The central nervous system at the core of the regulation of energy homeostasis. *Frontiers in Bioscience - Scholar*, **2009**, 1, 448-65	2.4	40
17	Multiple pathways involved in the biosynthesis of anandamide. *Neuropharmacology*, **2008**, 54, 1-7	5.5	224
16	Rÿgulation de la prise alimentaire. *Nutrition Clinique Et Metabolisme*, **2008**, 22, 52-58	0.8	3

15	NPY/AgRP neurons are not essential for feeding responses to glucoprivation. *Peptides*, **2007**, 28, 214-25	3.8	110
14	Cre recombinase-mediated restoration of nigrostriatal dopamine in dopamine-deficient mice reverses hypophagia and bradykinesia. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 8858-63	11.5	174
13	Thermoregulatory and metabolic defects in Huntington's disease transgenic mice implicate PGC-1alpha in Huntington's disease neurodegeneration. *Cell Metabolism*, **2006**, 4, 349-62	24.6	466
12	Roles of PPAR delta in lipid absorption and metabolism: a new target for the treatment of type 2 diabetes. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2005**, 1740, 313-7	6.9	137
11	NPY/AgRP neurons are essential for feeding in adult mice but can be ablated in neonates. *Science*, **2005**, 310, 683-5	33.3	824
10	Norepinephrine- and epinephrine-deficient mice gain weight normally on a high-fat diet. *Obesity*, **2005**, 13, 1518-22		10
9	Modulation of neuropeptide Y expression in adult mice does not affect feeding. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 18632-7	11.5	57
8	Germ cells and fatty acids induce translocation of CD36 scavenger receptor to the plasma membrane of Sertoli cells. *Journal of Cell Science*, **2005**, 118, 3027-35	5.3	35
7	Roles of peroxisome proliferator-activated receptor delta (PPARdelta) in the control of fatty acid catabolism. A new target for the treatment of metabolic syndrome. *Biochimie*, **2004**, 86, 833-7	4.6	72
6	Roles of peroxisome proliferator-activated receptors delta and gamma in myoblast transdifferentiation. *Experimental Cell Research*, **2003**, 288, 168-76	4.2	50
5	Nutritional regulation and role of peroxisome proliferator-activated receptor delta in fatty acid catabolism in skeletal muscle. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2003**, 1633, 43-50	5	141
4	Peroxisome proliferator-activated receptor delta controls muscle development and oxidative capability. *FASEB Journal*, **2003**, 17, 2299-301	0.9	432
3	Peroxisome-proliferator-activated receptor □mediates the effects of long-chain fatty acids on post-confluent cell proliferation. *Biochemical Journal*, **2000**, 350, 93	3.8	20
2	Peroxisome-proliferator-activated receptor □mediates the effects of long-chain fatty acids on post-confluent cell proliferation. *Biochemical Journal*, **2000**, 350, 93-98	3.8	50
1	Alterations of peroxisome proliferator-activated receptor delta activity affect fatty acid-controlled adipose differentiation. *Journal of Biological Chemistry*, **2000**, 275, 38768-73	5.4	86