

# Serge Luquet

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	NPY/AgRP neurons are essential for feeding in adult mice but can be ablated in neonates. <i>Science</i> , <b>2005</b> , 310, 683-5	33.3	824
85	GRP78 expression inhibits insulin and ER stress-induced SREBP-1c activation and reduces hepatic steatosis in mice. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 1201-15	15.9	515
84	Thermoregulatory and metabolic defects in Huntington's disease transgenic mice implicate PGC-1alpha in Huntington's disease neurodegeneration. <i>Cell Metabolism</i> , <b>2006</b> , 4, 349-62	24.6	466
83	Peroxisome proliferator-activated receptor delta controls muscle development and oxidative capability. <i>FASEB Journal</i> , <b>2003</b> , 17, 2299-301	0.9	432
82	Astrocytic Insulin Signaling Couples Brain Glucose Uptake with Nutrient Availability. <i>Cell</i> , <b>2016</b> , 166, 867-880	38.0	256
81	Tanycytic VEGF-A boosts blood-hypothalamus barrier plasticity and access of metabolic signals to the arcuate nucleus in response to fasting. <i>Cell Metabolism</i> , <b>2013</b> , 17, 607-17	24.6	224
80	Multiple pathways involved in the biosynthesis of anandamide. <i>Neuropharmacology</i> , <b>2008</b> , 54, 1-7	5.5	224
79	Cre recombinase-mediated restoration of nigrostriatal dopamine in dopamine-deficient mice reverses hypophagia and bradykinesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 8858-63	11.5	174
78	Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status. <i>Nature Communications</i> , <b>2014</b> , 5, 5648	17.4	160
77	Nutritional regulation and role of peroxisome proliferator-activated receptor delta in fatty acid catabolism in skeletal muscle. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2003</b> , 1633, 43-50	5	141
76	Roles of PPAR delta in lipid absorption and metabolism: a new target for the treatment of type 2 diabetes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2005</b> , 1740, 313-7	6.9	137
75	Irf5 deficiency in macrophages promotes beneficial adipose tissue expansion and insulin sensitivity during obesity. <i>Nature Medicine</i> , <b>2015</b> , 21, 610-8	50.5	130
74	A Western-like fat diet is sufficient to induce a gradual enhancement in fat mass over generations. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 2352-61	6.3	125
73	Adipose tissue NAPE-PLD controls fat mass development by altering the browning process and gut microbiota. <i>Nature Communications</i> , <b>2015</b> , 6, 6495	17.4	116
72	NPY/AgRP neurons are not essential for feeding responses to glucoprivation. <i>Peptides</i> , <b>2007</b> , 28, 214-25	3.8	110
71	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 7-14	25.5	108
70	Palatability Can Drive Feeding Independent of AgRP Neurons. <i>Cell Metabolism</i> , <b>2015</b> , 22, 646-57	24.6	98

69	Alterations of peroxisome proliferator-activated receptor delta activity affect fatty acid-controlled adipose differentiation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 38768-73	5.4	86
68	Hypothalamic AgRP-neurons control peripheral substrate utilization and nutrient partitioning. <i>EMBO Journal</i> , <b>2012</b> , 31, 4276-88	13	83
67	The hypothalamic arcuate nucleus and the control of peripheral substrates. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , <b>2014</b> , 28, 725-37	6.5	73
66	Roles of peroxisome proliferator-activated receptor delta (PPARdelta) in the control of fatty acid catabolism. A new target for the treatment of metabolic syndrome. <i>Biochimie</i> , <b>2004</b> , 86, 833-7	4.6	72
65	Lipidomics profile of a NAPE-PLD KO mouse provides evidence of a broader role of this enzyme in lipid metabolism in the brain. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 491-500	5	69
64	Intestinal epithelial N-acylphosphatidylethanolamine phospholipase D links dietary fat to metabolic adaptations in obesity and steatosis. <i>Nature Communications</i> , <b>2019</b> , 10, 457	17.4	66
63	Modulation of neuropeptide Y expression in adult mice does not affect feeding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 18632-7	11.5	57
62	Brain lipid sensing and the neural control of energy balance. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 418 Pt 1, 3-8	4.4	52
61	Myostatin is a key mediator between energy metabolism and endurance capacity of skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 307, R444-54	3.2	50
60	Arcuate AgRP neurons and the regulation of energy balance. <i>Frontiers in Endocrinology</i> , <b>2012</b> , 3, 169	5.7	50
59	Roles of peroxisome proliferator-activated receptors delta and gamma in myoblast transdifferentiation. <i>Experimental Cell Research</i> , <b>2003</b> , 288, 168-76	4.2	50
58	Peroxisome-proliferator-activated receptor $\delta$ mediates the effects of long-chain fatty acids on post-confluent cell proliferation. <i>Biochemical Journal</i> , <b>2000</b> , 350, 93-98	3.8	50
57	High-density lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. <i>Circulation</i> , <b>2013</b> , 128, 2364-71	16.7	47
56	Oxytocin reverses ovariectomy-induced osteopenia and body fat gain. <i>Endocrinology</i> , <b>2014</b> , 155, 1340-52	4.8	46
55	Short-Term Consumption of Sucralose with, but Not without, Carbohydrate Impairs Neural and Metabolic Sensitivity to Sugar in Humans. <i>Cell Metabolism</i> , <b>2020</b> , 31, 493-502.e7	24.6	42
54	Short-term adaptation of postprandial lipoprotein secretion and intestinal gene expression to a high-fat diet. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 296, G782-92	5.1	41
53	The central nervous system at the core of the regulation of energy homeostasis. <i>Frontiers in Bioscience - Scholar</i> , <b>2009</b> , 1, 448-65	2.4	40
52	Hippocampal lipoprotein lipase regulates energy balance in rodents. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 167-76	8.6	39

51	The multiple roles of fatty acid handling proteins in brain. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 385	4.6	39
50	Disruption of Lipid Uptake in Astroglia Exacerbates Diet-Induced Obesity. <i>Diabetes</i> , <b>2017</b> , 66, 2555-2563	0.9	38
49	Germ cells and fatty acids induce translocation of CD36 scavenger receptor to the plasma membrane of Sertoli cells. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 3027-35	5.3	35
48	NOV/CCN3: A New Adipocytokine Involved in Obesity-Associated Insulin Resistance. <i>Diabetes</i> , <b>2016</b> , 65, 2502-15	0.9	34
47	Exploring functional beta-cell heterogeneity in vivo using PSA-NCAM as a specific marker. <i>PLoS ONE</i> , <b>2009</b> , 4, e5555	3.7	31
46	Central CCL2 signaling onto MCH neurons mediates metabolic and behavioral adaptation to inflammation. <i>EMBO Reports</i> , <b>2016</b> , 17, 1738-1752	6.5	29
45	Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 807-822	8.8	26
44	Intestinal deletion of leptin signaling alters activity of nutrient transporters and delayed the onset of obesity in mice. <i>FASEB Journal</i> , <b>2014</b> , 28, 4100-10	0.9	25
43	Hypothalamic tanycytes: gatekeepers to metabolic control. <i>Cell Metabolism</i> , <b>2014</b> , 19, 173-5	24.6	25
42	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. <i>Molecular Metabolism</i> , <b>2021</b> , 48, 101206	8.8	24
41	DRD2: Bridging the Genome and Ingestive Behavior. <i>Trends in Cognitive Sciences</i> , <b>2017</b> , 21, 372-384	14	22
40	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. <i>Cell Reports</i> , <b>2018</b> , 22, 1745-1759	10.6	21
39	Peroxisome-proliferator-activated receptor $\gamma$ mediates the effects of long-chain fatty acids on post-confluent cell proliferation. <i>Biochemical Journal</i> , <b>2000</b> , 350, 93	3.8	20
38	Role of hypothalamic melanocortin system in adaptation of food intake to food protein increase in mice. <i>PLoS ONE</i> , <b>2011</b> , 6, e19107	3.7	20
37	Lipoprotein lipase in hypothalamus is a key regulator of body weight gain and glucose homeostasis in mice. <i>Diabetologia</i> , <b>2017</b> , 60, 1314-1324	10.3	19
36	Glucocorticoid receptor gene inactivation in dopamine-innervated areas selectively decreases behavioral responses to amphetamine. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 35	3.5	19
35	MCH Regulates SIRT1/FoxO1 and Reduces POMC Neuronal Activity to Induce Hyperphagia, Adiposity, and Glucose Intolerance. <i>Diabetes</i> , <b>2019</b> , 68, 2210-2222	0.9	16
34	Adipocyte Glucocorticoid Receptor Deficiency Promotes Adipose Tissue Expandability and Improves the Metabolic Profile Under Corticosterone Exposure. <i>Diabetes</i> , <b>2019</b> , 68, 305-317	0.9	16

33	Triglyceride sensing in the reward circuitry: A new insight in feeding behaviour regulation. <i>Biochimie</i> , <b>2016</b> , 120, 75-80	4.6	14
32	and expression in GABAergic neurons controls behavior, metabolism, healthy aging and lifespan. <i>Aging</i> , <b>2019</b> , 11, 6638-6656	5.6	14
31	Odor-Induced Neuronal Rhythms in the Olfactory Bulb Are Profoundly Modified in ob/ob Obese Mice. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 2	4.6	14
30	Laforin, a dual specificity phosphatase involved in Lafora disease, regulates insulin response and whole-body energy balance in mice. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 2571-84	5.6	14
29	Overexpression of the DYRK1A Gene (Dual-Specificity Tyrosine Phosphorylation-Regulated Kinase 1A) Induces Alterations of the Serotonergic and Dopaminergic Processing in Murine Brain Tissues. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 3822-3831	6.2	12
28	Carnitine acetyltransferase (Crat) in hunger-sensing AgRP neurons permits adaptation to calorie restriction. <i>FASEB Journal</i> , <b>2018</b> , 32, fj201800634R	0.9	10
27	Norepinephrine- and epinephrine-deficient mice gain weight normally on a high-fat diet. <i>Obesity</i> , <b>2005</b> , 13, 1518-22		10
26	Dietary triglycerides as signaling molecules that influence reward and motivation. <i>Current Opinion in Behavioral Sciences</i> , <b>2016</b> , 9, 126-135	4	9
25	Type 2 diabetes risk gene Dusp8 regulates hypothalamic Jnk signaling and insulin sensitivity. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 6093-6108	15.9	9
24	Endocannabinoid and nitric oxide systems of the hypothalamic paraventricular nucleus mediate effects of NPY on energy expenditure. <i>Molecular Metabolism</i> , <b>2018</b> , 18, 120-133	8.8	9
23	Hepatic NAPE-PLD Is a Key Regulator of Liver Lipid Metabolism. <i>Cells</i> , <b>2020</b> , 9,	7.9	8
22	Muscle expression of a malonyl-CoA-insensitive carnitine palmitoyltransferase-1 protects mice against high-fat/high-sucrose diet-induced insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2016</b> , 311, E649-60	6	8
21	The nutritional induction of COUP-TFII gene expression in ventromedial hypothalamic neurons is mediated by the melanocortin pathway. <i>PLoS ONE</i> , <b>2010</b> , 5, e13464	3.7	7
20	Lipid-induced peroxidation in the intestine is involved in glucose homeostasis imbalance in mice. <i>PLoS ONE</i> , <b>2011</b> , 6, e21184	3.7	7
19	Cardiolipin content controls mitochondrial coupling and energetic efficiency in muscle. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	7
18	Hypothalamic regulation of energy balance: a key role for DICER miRNA processing in arcuate POMC neurons. <i>Molecular Metabolism</i> , <b>2012</b> , 2, 55-7	8.8	6
17	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. <i>EBioMedicine</i> , <b>2020</b> , 58, 102895	8.8	6
16	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , <b>2020</b> , 220, 117069	7.9	5

15	Lkb1 suppresses amino acid-driven gluconeogenesis in the liver. <i>Nature Communications</i> , <b>2020</b> , 11, 6127	17.4	5
14	Sonic Hedgehog receptor Patched deficiency in astrocytes enhances glucose metabolism in mice. <i>Molecular Metabolism</i> , <b>2021</b> , 47, 101172	8.8	4
13	Lipoprotein Lipase Expression in Hypothalamus Is Involved in the Central Regulation of Thermogenesis and the Response to Cold Exposure. <i>Frontiers in Endocrinology</i> , <b>2018</b> , 9, 103	5.7	3
12	The LXCXE Retinoblastoma Protein-Binding Motif of FOG-2 Regulates Adipogenesis. <i>Cell Reports</i> , <b>2017</b> , 21, 3524-3535	10.6	3
11	R�gulation de la prise alimentaire. <i>Nutrition Clinique Et Metabolisme</i> , <b>2008</b> , 22, 52-58	0.8	3
10	Intestinal NAPE-PLD contributes to short-term regulation of food intake via gut-to-brain axis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 319, E647-E657	6	3
9	Ghrelin treatment induces rapid and delayed increments of food intake: a heuristic model to explain ghrelin's orexigenic effects. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 6689-6708	10.3	3
8	A readout of metabolic efficiency in arylamine N-acetyltransferase-deficient mice reveals minor energy metabolism changes. <i>FEBS Letters</i> , <b>2019</b> , 593, 831-841	3.8	1
7	Le contr�le central de la balance �nerg�tique. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2009</b> , 44, 17-25	0.2	1
6	Dietary lipids as regulators of reward processes: multimodal integration matters. <i>Trends in Endocrinology and Metabolism</i> , <b>2021</b> , 32, 693-705	8.8	1
5	Hypothalamic Regulation of Glucose Homeostasis: Is the Answer in the Matrix?. <i>Cell Metabolism</i> , <b>2020</b> , 32, 701-703	24.6	0
4	Mesolimbic lipid sensing and the regulation of feeding behaviour. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , <b>2015</b> , 22, D407	1.5	
3	Central lipid detection and the regulation of feeding behavior. <i>Oleagineux Corps Gras Lipides</i> , <b>2013</b> , 20, 93-101		
2	La d�tection centrale des lipides et la r�gulation du comportement alimentaire : implication dans l'ob�sité. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2014</b> , 49, 32-43	0.2	
1	Further Evidence that Habitual Consumption of Sucralose with, but Not without, Carbohydrate Alters Glucose Metabolism. <i>Cell Metabolism</i> , <b>2021</b> , 33, 227-228	24.6	