

# Serge Luquet

## List of Publications by Year in descending order

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92  
papers

7,566  
citations

76326

40  
h-index

54911

84  
g-index

106  
all docs

106  
docs citations

106  
times ranked

11289  
citing authors

#	ARTICLE	IF	CITATIONS
1	NPY/AgRP Neurons Are Essential for Feeding in Adult Mice but Can Be Ablated in Neonates. <i>Science</i> , 2005, 310, 683-685.	12.6	968
2	GRP78 expression inhibits insulin and ER stress-induced SREBP-1c activation and reduces hepatic steatosis in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 1201-1215.	8.2	605
3	Thermoregulatory and metabolic defects in Huntington's disease transgenic mice implicate PGC-1 $\beta$ in Huntington's disease neurodegeneration. <i>Cell Metabolism</i> , 2006, 4, 349-362.	16.2	519
4	Peroxisome proliferator-activated receptor $\beta$ controls muscle development and oxidative capability. <i>FASEB Journal</i> , 2003, 17, 2299-2301.	0.5	481
5	Astrocytic Insulin Signaling Couples Brain Glucose Uptake with Nutrient Availability. <i>Cell</i> , 2016, 166, 867-880.	28.9	382
6	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> , 2013, 17, 607-617.	16.2	285
7	Multiple pathways involved in the biosynthesis of anandamide. <i>Neuropharmacology</i> , 2008, 54, 1-7.	4.1	253
8	Role of astrocytes, microglia, and tanycytes in brain control of systemic metabolism. <i>Nature Neuroscience</i> , 2019, 22, 7-14.	14.8	200
9	Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status. <i>Nature Communications</i> , 2014, 5, 5648.	12.8	197
10	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> , 2006, 103, 8858-8863.	7.1	196
11	Nutritional regulation and role of peroxisome proliferator-activated receptor $\beta$ in fatty acid catabolism in skeletal muscle. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1633, 43-50.	2.4	166
12	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> , 2005, 1740, 313-317.	3.8	164
13	A Western-like fat diet is sufficient to induce a gradual enhancement in fat mass over generations. <i>Journal of Lipid Research</i> , 2010, 51, 2352-2361.	4.2	156
14	Irf5 deficiency in macrophages promotes beneficial adipose tissue expansion and insulin sensitivity during obesity. <i>Nature Medicine</i> , 2015, 21, 610-618.	30.7	149
15	Adipose tissue NAPE-PLD controls fat mass development by altering the browning process and gut microbiota. <i>Nature Communications</i> , 2015, 6, 6495.	12.8	144
16	NPY/AgRP neurons are not essential for feeding responses to glucoprivation. <i>Peptides</i> , 2007, 28, 214-225.	2.4	126
17	Palatability Can Drive Feeding Independent of AgRP Neurons. <i>Cell Metabolism</i> , 2015, 22, 646-657.	16.2	122
18	The melanocortin pathway and energy homeostasis: From discovery to obesity therapy. <i>Molecular Metabolism</i> , 2021, 48, 101206.	6.5	114

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19	Hypothalamic AgRP-neurons control peripheral substrate utilization and nutrient partitioning. <i>EMBO Journal</i> , 2012, 31, 4276-4288.	7.8	105
20	The hypothalamic arcuate nucleus and the control of peripheral substrates. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2014, 28, 725-737.	4.7	100
21	Intestinal epithelial N-acylphosphatidylethanolamine phospholipase D links dietary fat to metabolic adaptations in obesity and steatosis. <i>Nature Communications</i> , 2019, 10, 457.	12.8	100
22	Alterations of Peroxisome Proliferator-activated Receptor $\delta$ Activity Affect Fatty Acid-controlled Adipose Differentiation. <i>Journal of Biological Chemistry</i> , 2000, 275, 38768-38773.	3.4	94
23	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> , 2016, 1861, 491-500.	2.4	91
24	Roles of peroxisome proliferator-activated receptor delta (PPAR $\delta$ ) in the control of fatty acid catabolism. A new target for the treatment of metabolic syndrome. <i>Biochimie</i> , 2004, 86, 833-837.	2.6	85
25	Short-Term Consumption of Sucralose with, but Not without, Carbohydrate Impairs Neural and Metabolic Sensitivity to Sugar in Humans. <i>Cell Metabolism</i> , 2020, 31, 493-502.e7.	16.2	79
26	High-Density Lipoprotein Maintains Skeletal Muscle Function by Modulating Cellular Respiration in Mice. <i>Circulation</i> , 2013, 128, 2364-2371.	1.6	73
27	Brain lipid sensing and the neural control of energy balance. <i>Molecular and Cellular Endocrinology</i> , 2015, 418, 3-8.	3.2	68
28	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> , 2014, 307, R444-R454.	1.8	65
29	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> , 2005, 102, 18632-18637.	7.1	60
30	Arcuate AgRP neurons and the regulation of energy balance. <i>Frontiers in Endocrinology</i> , 2012, 3, 169.	3.5	59
31	Disruption of Lipid Uptake in Astroglia Exacerbates Diet-Induced Obesity. <i>Diabetes</i> , 2017, 66, 2555-2563.	0.6	59
32	Peroxisome-proliferator-activated receptor $\delta$ mediates the effects of long-chain fatty acids on post-confluent cell proliferation. <i>Biochemical Journal</i> , 2000, 350, 93-98.	3.7	55
33	Roles of peroxisome proliferator-activated receptors delta and gamma in myoblast transdifferentiation. <i>Experimental Cell Research</i> , 2003, 288, 168-176.	2.6	55
34	Oxytocin Reverses Ovariectomy-Induced Osteopenia and Body Fat Gain. <i>Endocrinology</i> , 2014, 155, 1340-1352.	2.8	55
35	The central nervous system at the core of the regulation of energy homeostasis. <i>Frontiers in Bioscience - Scholar</i> , 2009, S1, 448-465.	2.1	51
36	Short-term adaptation of postprandial lipoprotein secretion and intestinal gene expression to a high-fat diet. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G782-G792.	3.4	49

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37	NOV/CCN3: A New Adipocytokine Involved in Obesity-Associated Insulin Resistance. <i>Diabetes</i> , 2016, 65, 2502-2515.	0.6	48
38	The multiple roles of fatty acid handling proteins in brain. <i>Frontiers in Physiology</i> , 2012, 3, 385.	2.8	47
39	Hippocampal lipoprotein lipase regulates energy balance in rodents. <i>Molecular Metabolism</i> , 2014, 3, 167-176.	6.5	47
40	Germ cells and fatty acids induce translocation of CD36 scavenger receptor to the plasma membrane of Sertoli cells. <i>Journal of Cell Science</i> , 2005, 118, 3027-3035.	2.0	45
41	Central CCL2 signaling onto MCH neurons mediates metabolic and behavioral adaptation to inflammation. <i>EMBO Reports</i> , 2016, 17, 1738-1752.	4.5	40
42	DRD2: Bridging the Genome and Ingestive Behavior. <i>Trends in Cognitive Sciences</i> , 2017, 21, 372-384.	7.8	40
43	Exploring Functional $\beta$ -Cell Heterogeneity In Vivo Using PSA-NCAM as a Specific Marker. <i>PLoS ONE</i> , 2009, 4, e5555.	2.5	39
44	$\beta$ -Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. <i>Molecular Metabolism</i> , 2016, 5, 807-822.	6.5	39
45	Adipocyte Glucocorticoid Receptor Deficiency Promotes Adipose Tissue Expandability and Improves the Metabolic Profile Under Corticosterone Exposure. <i>Diabetes</i> , 2019, 68, 305-317.	0.6	35
46	MCH Regulates SIRT1/FoxO1 and Reduces POMC Neuronal Activity to Induce Hyperphagia, Adiposity, and Glucose Intolerance. <i>Diabetes</i> , 2019, 68, 2210-2222.	0.6	34
47	Hypothalamic Tanycytes: Gatekeepers to Metabolic Control. <i>Cell Metabolism</i> , 2014, 19, 173-175.	16.2	30
48	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. <i>Cell Reports</i> , 2018, 22, 1745-1759.	6.4	30
49	Intestinal deletion of leptin signaling alters activity of nutrient transporters and delayed the onset of obesity in mice. <i>FASEB Journal</i> , 2014, 28, 4100-4110.	0.5	29
50	Tanycytes control hypothalamic liraglutide uptake and its anti-obesity actions. <i>Cell Metabolism</i> , 2022, 34, 1054-1063.e7.	16.2	28
51	Glucocorticoid receptor gene inactivation in dopamine-innervated areas selectively decreases behavioral responses to amphetamine. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 35.	2.0	26
52	Dlx5 and Dlx6 expression in GABAergic neurons controls behavior, metabolism, healthy aging and lifespan. <i>Aging</i> , 2019, 11, 6638-6656.	3.1	25
53	Role of Hypothalamic Melanocortin System in Adaptation of Food Intake to Food Protein Increase in Mice. <i>PLoS ONE</i> , 2011, 6, e19107.	2.5	24
54	Lipoprotein lipase in hypothalamus is a key regulator of body weight gain and glucose homeostasis in mice. <i>Diabetologia</i> , 2017, 60, 1314-1324.	6.3	23

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55	Cardiolipin content controls mitochondrial coupling and energetic efficiency in muscle. <i>Science Advances</i> , 2021, 7, .	10.3	23
56	Peroxisome-proliferator-activated receptor $\delta$ mediates the effects of long-chain fatty acids on post-confluent cell proliferation. <i>Biochemical Journal</i> , 2000, 350, 93.	3.7	22
57	Identification of an endocannabinoid gut-brain vagal mechanism controlling food reward and energy homeostasis. <i>Molecular Psychiatry</i> , 2022, 27, 2340-2354.	7.9	22
58	Lkb1 suppresses amino acid-driven gluconeogenesis in the liver. <i>Nature Communications</i> , 2020, 11, 6127.	12.8	21
59	Odor-Induced Neuronal Rhythms in the Olfactory Bulb Are Profoundly Modified in ob/ob Obese Mice. <i>Frontiers in Physiology</i> , 2017, 8, 2.	2.8	18
60	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> , 2018, 55, 3822-3831.	4.0	17
61	Endocannabinoid and nitric oxide systems of the hypothalamic paraventricular nucleus mediate effects of NPY on energy expenditure. <i>Molecular Metabolism</i> , 2018, 18, 120-133.	6.5	17
62	Hepatic NAPE-PLD Is a Key Regulator of Liver Lipid Metabolism. <i>Cells</i> , 2020, 9, 1247.	4.1	17
63	Dietary lipids as regulators of reward processes: multimodal integration matters. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 693-705.	7.1	17
64	Type 2 diabetes risk gene <i>Dusp8</i> regulates hypothalamic Jnk signaling and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6093-6108.	8.2	17
65	Laforin, a dual specificity phosphatase involved in Lafora disease, regulates insulin response and whole-body energy balance in mice. <i>Human Molecular Genetics</i> , 2011, 20, 2571-2584.	2.9	16
66	Triglyceride sensing in the reward circuitry: A new insight in feeding behaviour regulation. <i>Biochimie</i> , 2016, 120, 75-80.	2.6	16
67	Carnitine acetyltransferase ( <i>Crat</i> ) in hunger-sensing AgRP neurons permits adaptation to calorie restriction. <i>FASEB Journal</i> , 2018, 32, 6923-6933.	0.5	16
68	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> , 2020, 319, E647-E657.	3.5	14
69	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , 2020, 220, 117069.	4.2	14
70	Norepinephrine- and Epinephrine-deficient Mice Gain Weight Normally on a High-fat Diet. <i>Obesity</i> , 2005, 13, 1518-1522.	4.0	13
71	Dietary triglycerides as signaling molecules that influence reward and motivation. <i>Current Opinion in Behavioral Sciences</i> , 2016, 9, 126-135.	3.9	12
72	Translational profiling of mouse dopaminergic neurons reveals region-specific gene expression, exon usage, and striatal prostaglandin E2 modulatory effects. <i>Molecular Psychiatry</i> , 2022, 27, 2068-2079.	7.9	12

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73	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.	5.4	10
74	Lipid-Induced Peroxidation in the Intestine Is Involved in Glucose Homeostasis Imbalance in Mice. PLoS ONE, 2011, 6, e21184.	2.5	9
75	The Nutritional Induction of COUP-TFII Gene Expression in Ventromedial Hypothalamic Neurons Is Mediated by the Melanocortin Pathway. PLoS ONE, 2010, 5, e13464.	2.5	8
76	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-E660.	3.5	8
77	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.	6.1	8
78	Sonic Hedgehog receptor Patched deficiency in astrocytes enhances glucose metabolism in mice. Molecular Metabolism, 2021, 47, 101172.	6.5	8
79	Hypothalamic regulation of energy balance: a key role for DICER miRNA processing in arcuate POMC neurons. Molecular Metabolism, 2013, 2, 55-57.	6.5	6
80	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.	3.5	6
81	<i>Soat2</i> ties cholesterol metabolism to $\beta$ -oxidation and glucose tolerance in male mice. Journal of Internal Medicine, 2022, 292, 296-307.	6.0	6
82	Metabolic actions of the growth hormone-insulin growth factor-1 axis and its interaction with the central nervous system. Reviews in Endocrine and Metabolic Disorders, 2022, 23, 919-930.	5.7	5
83	The LXCXE Retinoblastoma Protein-Binding Motif of FOG-2 Regulates Adipogenesis. Cell Reports, 2017, 21, 3524-3535.	6.4	4
84	Régulation de la prise alimentaire. Nutrition Clinique Et Metabolisme, 2008, 22, 52-58.	0.5	3
85	A readout of metabolic efficiency in arylamine N-acetyltransferase-deficient mice reveals minor energy metabolism changes. FEBS Letters, 2019, 593, 831-841.	2.8	3
86	Hindbrain catecholaminergic inputs to the paraventricular thalamus scale feeding and metabolic efficiency in stress-related contexts. Journal of Physiology, 2022, 600, 2877-2895.	2.9	3
87	Dopamine drives food craving during pregnancy. Nature Metabolism, 2022, 4, 410-411.	11.9	2
88	Hypothalamic Regulation of Glucose Homeostasis: Is the Answer in the Matrix?. Cell Metabolism, 2020, 32, 701-703.	16.2	1
89	Further Evidence that Habitual Consumption of Sucralose with, but Not without, Carbohydrate Alters Glucose Metabolism. Cell Metabolism, 2021, 33, 227-228.	16.2	1
90	The Dopamine Receptor Subtype 2 (DRD2) Regulates the Central Reinforcing Actions of Dietary Lipids in Humans and Rodents. SSRN Electronic Journal, 0, , .	0.4	1

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91	Central lipid detection and the regulation of feeding behavior. <i>Oleagineux Corps Gras Lipides</i> , 2013, 20, 93-101.	0.2	0
92	Mesolimbic lipid sensing and the regulation of feeding behaviour. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2015, 22, D407.	1.4	0