Laurent Gautron

List of Publications by Year
in descending order

69 papers	5,761 citations	117625 34 h-index	110387 64 g-index
78 all docs	78 docs citations	78 times ranked	8719 citing authors

#	Article	IF	Citations
1	Endocrine Regulation of the Fasting Response by PPARÎ±-Mediated Induction of Fibroblast Growth Factor 21. Cell Metabolism, 2007, 5, 415-425.	16.2	1,306
2	FGF21 regulates metabolism and circadian behavior by acting on the nervous system. Nature Medicine, 2013, 19, 1147-1152.	30.7	430
3	A Cardiac MicroRNA Governs Systemic Energy Homeostasis by Regulation of MED13. Cell, 2012, 149, 671-683.	28.9	334
4	Sixteen years and counting: an update on leptin in energy balance. Journal of Clinical Investigation, 2011, 121, 2087-2093.	8.2	292
5	Characterization of Kiss1 neurons using transgenic mouse models. Neuroscience, 2011, 173, 37-56.	2.3	286
6	Leptinâ€™s effect on puberty in mice is relayed by the ventral premammillary nucleus and does not require signaling in Kiss1 neurons. Journal of Clinical Investigation, 2011, 121, 355-368.	8.2	281
7	Neural Control of Energy Balance: Translating Circuits to Therapies. Cell, 2015, 161, 133-145.	28.9	204
8	FGF21 contributes to neuroendocrine control of female reproduction. Nature Medicine, 2013, 19, 1153-1156.	30.7	193
9	Leptin and brainâ€“adipose crosstalks. Nature Reviews Neuroscience, 2018, 19, 153-165.	10.2	182
10	Profiling of G protein-coupled receptors in vagal afferents reveals novel gut-to-brain sensing mechanisms. Molecular Metabolism, 2018, 12, 62-75.	6.5	124
11	PostnatalSim1Deficiency Causes Hyperphagic Obesity and ReducedMc4randOxytocinExpression. Journal of Neuroscience, 2010, 30, 3803-3812.	3.6	120
12	Central Administration of Resveratrol Improves Diet-Induced Diabetes. Endocrinology, 2009, 150, 5326-5333.	2.8	118
13	Neuronal and nonneuronal cholinergic structures in the mouse gastrointestinal tract and spleen. Journal of Comparative Neurology, 2013, 521, 3741-3767.	1.6	115
14	Dermal adipose tissue has high plasticity and undergoes reversible dedifferentiation in mice. Journal of Clinical Investigation, 2019, 129, 5327-5342.	8.2	112
15	Genetic tracing of Nav1.8â€expressing vagal afferents in the mouse. Journal of Comparative Neurology, 2011, 519, 3085-3101.	1.6	100
16	PI3K Signaling in the Ventromedial Hypothalamic Nucleus Is Required for Normal Energy Homeostasis. Cell Metabolism, 2010, 12, 88-95.	16.2	96
17	Mycobacterium tuberculosis Sulfolipid-1 Activates Nociceptive Neurons and Induces Cough. Cell, 2020, 181, 293-305.e11.	28.9	88
18	Identifying the efferent projections of leptinâ€responsive neurons in the dorsomedial hypothalamus using a novel conditional tracing approach. Journal of Comparative Neurology, 2010, 518, 2090-2108.	1.6	75

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19	Large-scale forward genetics screening identifies Trpa1 as a chemosensor for predator odor-evoked innate fear behaviors. Nature Communications, 2018, 9, 2041.	12.8	71
20	Neuroanatomy of melanocortinâ€4 receptor pathway in the lateral hypothalamic area. Journal of Comparative Neurology, 2012, 520, 4168-4183.	1.6	70
21	Spatiotemporal analysis of signal transducer and activator of transcription 3 activation in rat brain astrocytes and pituitary following peripheral immune challenge. Neuroscience, 2002, 112, 717-729.	2.3	69
22	Induction of Leptin Resistance by Activation of cAMP-Epac Signaling. Cell Metabolism, 2011, 13, 331-339.	16.2	65
23	Monitoring FoxO1 Localization in Chemically Identified Neurons. Journal of Neuroscience, 2008, 28, 13640-13648.	3.6	64
24	Melanocortinâ€4 receptor expression in a vagoâ€vagal circuitry involved in postprandial functions. Journal of Comparative Neurology, 2010, 518, 6-24.	1.6	64
25	PANIC-ATTAC: A Mouse Model for Inducible and Reversible Î²-Cell Ablation. Diabetes, 2008, 57, 2137-2148.	0.6	59
26	PPARÎ³ in Vagal Neurons Regulates High-Fat Diet Induced Thermogenesis. Cell Metabolism, 2014, 19, 722-730.	16.2	55
27	Hindbrain Ghrelin Receptor Signaling Is Sufficient to Maintain Fasting Glucose. PLoS ONE, 2012, 7, e44089.	2.5	52
28	Influence of feeding status on neuronal activity in the hypothalamus during lipopolysaccharide-induced anorexia in rats. Neuroscience, 2005, 134, 933-946.	2.3	51
29	Adipocyte iron levels impinge on a fat-gut crosstalk to regulate intestinal lipid absorption and mediate protection from obesity. Cell Metabolism, 2021, 33, 1624-1639.e9.	16.2	50
30	The role of ghrelin-responsive mediobasal hypothalamic neurons in mediating feeding responses to fasting. Molecular Metabolism, 2017, 6, 882-896.	6.5	46
31	Liver X Receptors Protect Dorsal Root Ganglia from Obesity-Induced Endoplasmic Reticulum Stress and Mechanical Allodynia. Cell Reports, 2018, 25, 271-277.e4.	6.4	43
32	Vagal innervation patterns following Roux-en-Y gastric bypass in the mouse. International Journal of Obesity, 2013, 37, 1603-1607.	3.4	39
33	Neurobiology of inflammation-associated anorexia. Frontiers in Neuroscience, 2009, 3, 59.	2.8	38
34	Molecular anatomy of the gut-brain axis revealed with transgenic technologies: implications in metabolic research. Frontiers in Neuroscience, 2013, 7, 134.	2.8	35
35	Hepatocyte toll-like receptor 4 deficiency protects against alcohol-induced fatty liver disease. Molecular Metabolism, 2018, 14, 121-129.	6.5	35
36	Vagal neuron expression of the microbiota-derived metabolite receptor, free fatty acid receptor (FFAR3), is necessary for normal feeding behavior. Molecular Metabolism, 2021, 54, 101350.	6.5	34

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37	Loss of Goosecoid-like and DiGeorge syndrome critical region 14 in interpeduncular nucleus results in altered regulation of rapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18155-18160.	7.1	27
38	Leptin Receptor Expression in Mouse Intracranial Perivascular Cells. Frontiers in Neuroanatomy, 2018, 12, 4.	1.7	25
39	Laserâ€capture microdissection and transcriptional profiling of the dorsomedial nucleus of the hypothalamus. Journal of Comparative Neurology, 2012, 520, 3617-3632.	1.6	23
40	Lipopolysacharide Rapidly and Completely Suppresses AgRP Neuron-Mediated Food Intake in Male Mice. Endocrinology, 2016, 157, 2380-2392.	2.8	23
41	TLR4 Signaling Selectively and Directly Promotes CGRP Release from Vagal Afferents in the Mouse. ENeuro, 2021, 8, ENEURO.0254-20.2020.	1.9	22
42	Characterization of STAT3-expressing cells in the postnatal rat brain. Brain Research, 2006, 1098, 26-32.	2.2	21
43	Loss of the liver X receptor LXRÎ±/Î² in peripheral sensory neurons modifies energy expenditure. ELife, 2015, 4, .	6.0	21
44	In vivo Activation of the Interleukin-6 Receptor/gp130 Signaling Pathway in Pituitary Corticotropes of Lipopolysaccharide-Treated Rats. Neuroendocrinology, 2003, 77, 32-43.	2.5	20
45	Melanocortinâ€4 receptor expression in different classes of spinal and vagal primary afferent neurons in the mouse. Journal of Comparative Neurology, 2012, 520, 3933-3948.	1.6	20
46	Na v 1.8 neurons are involved in limiting acute phase responses to dietary fat. Molecular Metabolism, 2017, 6, 1081-1091.	6.5	16
47	On the Necessity of Validating Antibodies in the Immunohistochemistry Literature. Frontiers in Neuroanatomy, 2019, 13, 46.	1.7	15
48	Discrete melanocortin-sensitive neuroanatomical pathway linking the ventral premmamillary nucleus to the paraventricular hypothalamus. Neuroscience, 2013, 240, 70-82.	2.3	13
49	PPARÎ³ mRNA in the adult mouse hypothalamus: distribution and regulation in response to dietary challenges. Frontiers in Neuroanatomy, 2015, 9, 120.	1.7	12
50	Forward genetic analysis using OCT screening identifies Sfxn3 mutations leading to progressive outer retinal degeneration in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12931-12942.	7.1	11
51	Physiology-forward identification of bile acidâ€“sensitive vomeronasal receptors. Science Advances, 2020, 6, eaaz6868.	10.3	11
52	Relationship of Î±-MSH and AgRP axons to the perikarya of melanocortin-4 receptor neurons. Brain Research, 2019, 1717, 136-146.	2.2	10
53	Levels of Cocaine- and Amphetamine-Regulated Transcript in Vagal Afferents in the Mouse Are Unaltered in Response to Metabolic Challenges. ENeuro, 2016, 3, ENEURO.0174-16.2016.	1.9	10
54	Characterization of a cell bridge variant connecting the nodose and superior cervical ganglia in the mouse: Prevalence, anatomical features, and practical implications. Journal of Comparative Neurology, 2021, 529, 111-128.	1.6	9

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55	The controversial role of the vagus nerve in mediating ghrelin's actions: gut feelings and beyond. IBRO Neuroscience Reports, 2022, 12, 228-239.	1.6	9
56	Pituitary Cocaineâ€•and Amphetamineâ€Regulated Transcript Expression Depends on the Strain, Sex and Oestrous Cycle in the Rat. Journal of Neuroendocrinology, 2006, 18, 426-433.	2.6	8
57	Toward a Neuroimmunoendocrinology of Adipose Tissue. Endocrinology, 2015, 156, 3485-3487.	2.8	8
58	Age-Related Changes in Nestin Immunoreactivity in the Rat Pituitary Gland. Neuroendocrinology, 2009, 90, 19-30.	2.5	6
59	Specific localization of signal transducer and activator of transcription 1 immunoreactivity in oxytocin neurons of the rat hypothalamus. Brain Research, 2003, 994, 260-264.	2.2	5
60	The Molecular Diversity of Vagal Afferents Revealed. Trends in Neurosciences, 2019, 42, 663-666.	8.6	5
61	The Phantom Satiation Hypothesis of Bariatric Surgery. Frontiers in Neuroscience, 2021, 15, 626085.	2.8	5
62	Identification of Leptin Receptorâ€“Expressing Cells in the Nodose Ganglion of Male Mice. Endocrinology, 2019, 160, 1307-1322.	2.8	4
63	Detection of G Protein-coupled Receptor Expression in Mouse Vagal Afferent Neurons using Multiplex In Situ Hybridization. Journal of Visualized Experiments, 2021, , .	0.3	3
64	Central Administration of Resveratrol Improves Diet-Induced Diabetes. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4625-4625.	3.6	0
65	Melanocortin-4 receptor expression in a vago-vagal circuitry involved in postprandial functions. Journal of Comparative Neurology, 2010, 518, spc1-spc1.	1.6	0
66	Neuroanatomy and transgenic technologies. Frontiers in Neuroanatomy, 2015, 8, 157.	1.7	0
67	Seeing through sensory ganglia. Journal of Neuroscience Research, 2019, 97, 1041-1042.	2.9	0
68	The Role of Vagal Free Fatty Acid Receptor 3 (FFAR3) in FMT Improvement of Glucose Homeostasis. FASEB Journal, 2019, 33, lb626.	0.5	0
69	The parasympathetic innervation of the spleen: are we chasing a ghost?. Journal of Anatomy, 2021, , .	1.5	0