

# Joel Elmquist

## 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.

80  
papers

13,726  
citations

47  
h-index

89  
g-index

89  
ext. papers

14,945  
ext. citations

12.7  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
80	Differential expression of orexin receptors 1 and 2 in the rat brain. <i>Journal of Comparative Neurology</i> , <b>2001</b> , 435, 6-25	3.4	1295
79	Distributions of leptin receptor mRNA isoforms in the rat brain. <i>Journal of Comparative Neurology</i> , <b>1998</b> , 395, 535-547	3.4	867
78	Divergence of melanocortin pathways in the control of food intake and energy expenditure. <i>Cell</i> , <b>2005</b> , 123, 493-505	56.2	820
77	Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. <i>Journal of Comparative Neurology</i> , <b>1998</b> , 402, 442-459	3.4	737
76	Leptin receptor signaling in POMC neurons is required for normal body weight homeostasis. <i>Neuron</i> , <b>2004</b> , 42, 983-91	13.9	721
75	Leptin directly activates SF1 neurons in the VMH, and this action by leptin is required for normal body-weight homeostasis. <i>Neuron</i> , <b>2006</b> , 49, 191-203	13.9	594
74	Unraveling the central nervous system pathways underlying responses to leptin. <i>Nature Neuroscience</i> , <b>1998</b> , 1, 445-50	25.5	431
73	Distinct hypothalamic neurons mediate estrogenic effects on energy homeostasis and reproduction. <i>Cell Metabolism</i> , <b>2011</b> , 14, 453-65	24.6	402
72	Glucagon-like peptide-1 receptor stimulation increases blood pressure and heart rate and activates autonomic regulatory neurons. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 43-52	15.9	360
71	Leptin targets in the mouse brain. <i>Journal of Comparative Neurology</i> , <b>2009</b> , 514, 518-32	3.4	357
70	Characterization of CART neurons in the rat and human hypothalamus. <i>Journal of Comparative Neurology</i> , <b>2001</b> , 432, 1-19	3.4	336
69	Identifying hypothalamic pathways controlling food intake, body weight, and glucose homeostasis. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 493, 63-71	3.4	332
68	Leptin activates distinct projections from the dorsomedial and ventromedial hypothalamic nuclei. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 741-6	11.5	329
67	Distributions of leptin receptor mRNA isoforms in the rat brain. <i>Journal of Comparative Neurology</i> , <b>1998</b> , 395, 535-47	3.4	323
66	Chemical characterization of leptin-activated neurons in the rat brain. <i>Journal of Comparative Neurology</i> , <b>2000</b> , 423, 261-281	3.4	322
65	Synaptic glutamate release by ventromedial hypothalamic neurons is part of the neurocircuitry that prevents hypoglycemia. <i>Cell Metabolism</i> , <b>2007</b> , 5, 383-93	24.6	286
64	Direct insulin and leptin action on pro-opiomelanocortin neurons is required for normal glucose homeostasis and fertility. <i>Cell Metabolism</i> , <b>2010</b> , 11, 286-97	24.6	278

63	Distribution of Fos-like immunoreactivity in the rat brain following intravenous lipopolysaccharide administration. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 371, 85-103	3.4	271
62	Segregation of acute leptin and insulin effects in distinct populations of arcuate proopiomelanocortin neurons. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 2472-9	6.6	253
61	5-HT2CRs expressed by pro-opiomelanocortin neurons regulate energy homeostasis. <i>Neuron</i> , <b>2008</b> , 60, 582-9	13.9	245
60	Direct leptin action on POMC neurons regulates glucose homeostasis and hepatic insulin sensitivity in mice. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 1000-9	15.9	239
59	A neural basis for melanocortin-4 receptor-regulated appetite. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 863-71	25.5	238
58	Glucagon-like peptide-1-responsive catecholamine neurons in the area postrema link peripheral glucagon-like peptide-1 with central autonomic control sites. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 2939-46	6.6	228
57	Distinct physiologic and neuronal responses to decreased leptin and mild hyperleptinemia. <i>Endocrinology</i> , <b>1999</b> , 140, 4923-31	4.8	219
56	Intravenous lipopolysaccharide induces cyclooxygenase 2-like immunoreactivity in rat brain perivascular microglia and meningeal macrophages. <i>Journal of Comparative Neurology</i> , <b>1997</b> , 381, 119-29	3.4	218
55	Hepatocyte Toll-like receptor 4 regulates obesity-induced inflammation and insulin resistance. <i>Nature Communications</i> , <b>2014</b> , 5, 3878	17.4	192
54	Glucagon-like peptide-1 receptor stimulation increases blood pressure and heart rate and activates autonomic regulatory neurons. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 43-52	15.9	189
53	Enhanced leptin sensitivity and improved glucose homeostasis in mice lacking suppressor of cytokine signaling-3 in POMC-expressing cells. <i>Cell Metabolism</i> , <b>2006</b> , 4, 123-32	24.6	187
52	Arcuate AgRP neurons mediate orexigenic and glucoregulatory actions of ghrelin. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 64-72	8.8	173
51	Xbp1s in Pomc neurons connects ER stress with energy balance and glucose homeostasis. <i>Cell Metabolism</i> , <b>2014</b> , 20, 471-82	24.6	169
50	Neural control of energy balance: translating circuits to therapies. <i>Cell</i> , <b>2015</b> , 161, 133-145	56.2	149
49	Serotonin 2C receptors in pro-opiomelanocortin neurons regulate energy and glucose homeostasis. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 5061-70	15.9	148
48	MC4R-expressing glutamatergic neurons in the paraventricular hypothalamus regulate feeding and are synaptically connected to the parabrachial nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13193-8	11.5	136
47	Activation of neurons projecting to the paraventricular hypothalamic nucleus by intravenous lipopolysaccharide. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 374, 315-31	3.4	131
46	Steroidogenic factor 1 directs programs regulating diet-induced thermogenesis and leptin action in the ventral medial hypothalamic nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10673-8	11.5	127

45	Relationship of EP(1-4) prostaglandin receptors with rat hypothalamic cell groups involved in lipopolysaccharide fever responses. <i>Journal of Comparative Neurology</i> , <b>2000</b> , 428, 20-32	3.4	117
44	Leptin and brain-adipose crosstalks. <i>Nature Reviews Neuroscience</i> , <b>2018</b> , 19, 153-165	13.5	108
43	Hypothalamic pathways underlying the endocrine, autonomic, and behavioral effects of leptin. <i>International Journal of Obesity</i> , <b>2001</b> , 25 Suppl 5, S78-82	5.5	107
42	FOXO1 in the ventromedial hypothalamus regulates energy balance. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 2578-89	15.9	102
41	Melanocortin 4 receptors in autonomic neurons regulate thermogenesis and glycemia. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 911-3	25.5	94
40	PI3K signaling in the ventromedial hypothalamic nucleus is required for normal energy homeostasis. <i>Cell Metabolism</i> , <b>2010</b> , 12, 88-95	24.6	92
39	Neuroscience. The fat-brain axis enters a new dimension. <i>Science</i> , <b>2004</b> , 304, 63-4	33.3	82
38	5-HT <sub>2</sub> CRs expressed by pro-opiomelanocortin neurons regulate insulin sensitivity in liver. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 1457-9	25.5	75
37	An adipo-biliary-uridine axis that regulates energy homeostasis. <i>Science</i> , <b>2017</b> , 355,	33.3	55
36	POMC neurons expressing leptin receptors coordinate metabolic responses to fasting via suppression of leptin levels. <i>ELife</i> , <b>2018</b> , 7,	8.9	51
35	PPAR $\alpha$ in vagal neurons regulates high-fat diet induced thermogenesis. <i>Cell Metabolism</i> , <b>2014</b> , 19, 722-30	24.6	49
34	SF-1 in the ventral medial hypothalamic nucleus: a key regulator of homeostasis. <i>Molecular and Cellular Endocrinology</i> , <b>2011</b> , 336, 219-23	4.4	47
33	Activation of SOCS-3 Messenger Ribonucleic Acid in the Hypothalamus by Ciliary Neurotrophic Factor		34
32	Leptin and insulin engage specific PI3K subunits in hypothalamic SF1 neurons. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 669-679	8.8	34
31	Leptin: Less Is More. <i>Diabetes</i> , <b>2020</b> , 69, 823-829	0.9	33
30	Anatomic basis of leptin action in the hypothalamus. <i>Frontiers of Hormone Research</i> , <b>2000</b> , 26, 21-41	3.5	32
29	Hepatocyte toll-like receptor 4 deficiency protects against alcohol-induced fatty liver disease. <i>Molecular Metabolism</i> , <b>2018</b> , 14, 121-129	8.8	27
28	SF-1 expression in the hypothalamus is required for beneficial metabolic effects of exercise. <i>ELife</i> , <b>2016</b> , 5,	8.9	27

27	Short-Term Versus Long-Term Effects of Adipocyte Toll-Like Receptor 4 Activation on Insulin Resistance in Male Mice. <i>Endocrinology</i> , <b>2017</b> , 158, 1260-1270	4.8	24
26	Circuits controlling energy balance and mood: inherently intertwined or just complicated intersections?. <i>Cell Metabolism</i> , <b>2014</b> , 19, 902-9	24.6	21
25	NURR1 activation in skeletal muscle controls systemic energy homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11299-11308	11.5	20
24	Ghrelin mediates exercise endurance and the feeding response post-exercise. <i>Molecular Metabolism</i> , <b>2018</b> , 9, 114-130	8.8	19
23	Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area <b>1998</b> , 402, 442		18
22	Adipocyte Gs but not Gi signaling regulates whole-body glucose homeostasis. <i>Molecular Metabolism</i> , <b>2019</b> , 27, 11-21	8.8	16
21	Loss of the liver X receptor LXR $\alpha$ in peripheral sensory neurons modifies energy expenditure. <i>ELife</i> , <b>2015</b> , 4,	8.9	16
20	Perivascular mesenchymal cells control adipose-tissue macrophage accrual in obesity. <i>Nature Metabolism</i> , <b>2020</b> , 2, 1332-1349	14.6	15
19	Meta-chlorophenylpiperazine enhances leptin sensitivity in diet-induced obese mice. <i>British Journal of Pharmacology</i> , <b>2015</b> , 172, 3510-21	8.6	11
18	The cover. Neuroendocrine and endocrine pathways of obesity. <i>JAMA - Journal of the American Medical Association</i> , <b>2012</b> , 308, 1070-1	27.4	11
17	Disrupting the ghrelin-growth hormone axis limits ghrelin's orexigenic but not glucoregulatory actions. <i>Molecular Metabolism</i> , <b>2021</b> , 53, 101258	8.8	9
16	CNS regulation of energy balance and body weight: insights from rodent models. <i>Laboratory Animal Science</i> , <b>1998</b> , 48, 630-7		9
15	The hypothalamic regulation of metabolic adaptations to exercise. <i>Journal of Neuroendocrinology</i> , <b>2017</b> , 29, e12533	3.8	8
14	Characterization and ontogeny of synapse-associated proteins in the developing facial and hypoglossal motor nuclei of the Brazilian opossum. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 368, 270-84	3.4	8
13	Nutritional conditions regulate transcriptional activity of SF-1 by controlling sumoylation and ubiquitination. <i>Scientific Reports</i> , <b>2016</b> , 6, 19143	4.9	7
12	Reduced physeal area and chondrocyte proliferation in <i>Pasteurella multocida</i> toxin-treated rats. <i>Veterinary Pathology</i> , <b>1995</b> , 32, 674-82	2.8	7
11	Melanocortin regulation of histaminergic neurons via perifornical lateral hypothalamic melanocortin 4 receptors. <i>Molecular Metabolism</i> , <b>2020</b> , 35, 100956	8.8	5
10	CB1Rs in VMH neurons regulate glucose homeostasis but not body weight. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 321, E146-E155	6	3

9	Author response: SF-1 expression in the hypothalamus is required for beneficial metabolic effects of exercise <b>2016</b> ,		2
8	Coordination of metabolism, arousal, and reward by orexin/hypocretin neurons. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4540-4542	15.9	2
7	Combined Loss of Ghrelin Receptor and Cannabinoid CB1 Receptor in Mice Decreases Survival but does not Additively Reduce Body Weight or Eating. <i>Neuroscience</i> , <b>2020</b> , 447, 53-62	3.9	2
6	Distributions of leptin receptor mRNA isoforms in the rat brain <b>1998</b> , 395, 535		2
5	Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area <b>1998</b> , 402, 442		2
4	Electrophysiological Properties of Genetically Identified Histaminergic Neurons. <i>Neuroscience</i> , <b>2020</b> , 444, 183-195	3.9	1
3	Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area <b>1998</b> , 402, 442		1
2	Chemical characterization of leptin-activated neurons in the rat brain <b>2000</b> , 423, 261		1
1	Relationship of EP1-4 prostaglandin receptors with rat hypothalamic cell groups involved in lipopolysaccharide fever responses <b>2000</b> , 428, 20		1