Yasuhiko Minokoshi

List of Publications by Year
in descending order

86	10,465	53660 45	62479 80
papers	citations	h-index	g-index

92	92	92	12048
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. Nature, 2002, 415, 339-343.	13.7	1,823
2	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. Nature, 2004, 428, 569-574.	13.7	1,464
3	PTP1B Regulates Leptin Signal Transduction In Vivo. Developmental Cell, 2002, 2, 489-495.	3.1	735
4	Adiponectin Stimulates AMP-Activated Protein Kinase in the Hypothalamus and Increases Food Intake. Cell Metabolism, 2007, 6, 55-68.	7.2	701
5	ATP-sensitive K+ channels in the hypothalamus are essential for the maintenance of glucose homeostasis. Nature Neuroscience, 2001, 4, 507-512.	7.1	470
6	A Liver-Derived Secretory Protein, Selenoprotein P, Causes Insulin Resistance. Cell Metabolism, 2010, 12, 483-495.	7.2	469
7	Adipocyte/macrophage fatty acid binding proteins control integrated metabolic responses in obesity and diabetes. Cell Metabolism, 2005, 1, 107-119.	7.2	415
8	Regulation of Pancreatic Î² Cell Mass by Neuronal Signals from the Liver. Science, 2008, 322, 1250-1254.	6.0	206
9	Tissue-specific Ablation of the GLUT4 Glucose Transporter or the Insulin Receptor Challenges Assumptions about Insulin Action and Glucose Homeostasis. Journal of Biological Chemistry, 2003, 278, 33609-33612.	1.6	201
10	Leptin Stimulates Fatty Acid Oxidation and Peroxisome Proliferator-Activated Receptor Î± Gene Expression in Mouse C2C12 Myoblasts by Changing the Subcellular Localization of the Î±2 Form of AMP-Activated Protein Kinase. Molecular and Cellular Biology, 2007, 27, 4317-4327.	1.1	201
11	Hypothalamic Orexin Stimulates Feeding-Associated Glucose Utilization in Skeletal Muscle via Sympathetic Nervous System. Cell Metabolism, 2009, 10, 466-480.	7.2	196
12	Conditional Ablation of Orexin/Hypocretin Neurons: A New Mouse Model for the Study of Narcolepsy and Orexin System Function. Journal of Neuroscience, 2014, 34, 6495-6509.	1.7	181
13	An Increase in Murine Skeletal Muscle Peroxisome Proliferator-Activated Receptor-Î³ Coactivator-1Î± (PGC-1Î±) mRNA in Response to Exercise Is Mediated by Î²-Adrenergic Receptor Activation. Endocrinology, 2007, 148, 3441-3448.	1.4	165
14	Lack of TRPM2 Impaired Insulin Secretion and Glucose Metabolisms in Mice. Diabetes, 2011, 60, 119-126.	0.3	163
15	Disruption of CXC Motif Chemokine Ligand-14 in Mice Ameliorates Obesity-induced Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 30794-30803.	1.6	147
16	Leptin Signaling Targets the Thyrotropin-Releasing Hormone Gene Promoterin Vivo. Endocrinology, 2004, 145, 2221-2227.	1.4	114
17	Ghrelin raises [Ca2+]i via AMPK in hypothalamic arcuate nucleus NPY neurons. Biochemical and Biophysical Research Communications, 2008, 366, 388-392.	1.0	112
18	Hyperglycemia induces skeletal muscle atrophy via a WWP1/KLF15 axis. JCI Insight, 2019, 4, .	2.3	107

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19	Distinct Effects of Leptin and a Melanocortin Receptor Agonist Injected Into Medial Hypothalamic Nuclei on Glucose Uptake in Peripheral Tissues. Diabetes, 2009, 58, 2757-2765.	0.3	94
20	Induction of Hypothalamic Sirt1 Leads to Cessation of Feeding via Agouti-Related Peptide. Endocrinology, 2010, 151, 2556-2566.	1.4	92
21	GLUT4 glucose transporter deficiency increases hepatic lipid production and peripheral lipid utilization. Journal of Clinical Investigation, 2004, 114, 1666-1675.	3.9	91
22	Role of hypothalamic AMP-kinase in food intake regulation. Nutrition, 2008, 24, 786-790.	1.1	83
23	ATP-sensitive potassium channels participate in glucose uptake in skeletal muscle and adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E1178-E1184.	1.8	81
24	Hypothalamic SIRT1 prevents age-associated weight gain by improving leptin sensitivity in mice. Diabetologia, 2014, 57, 819-831.	2.9	80
25	Accelerated norepinephrine turnover in peripheral tissues after ventromedial hypothalamic stimulation in rats. Brain Research, 1989, 481, 298-303.	1.1	79
26	Activation of SF1 Neurons in the Ventromedial Hypothalamus by DREADD Technology Increases Insulin Sensitivity in Peripheral Tissues. Diabetes, 2017, 66, 2372-2386.	0.3	77
27	Effects of noradrenaline on the cell-surface glucose transporters in cultured brown adipocytes: novel mechanism for selective activation of GLUT1 glucose transporters. Biochemical Journal, 1998, 330, 397-403.	1.7	72
28	Neuronal Protein Tyrosine Phosphatase 1B Deficiency Results in Inhibition of Hypothalamic AMPK and Isoform-Specific Activation of AMPK in Peripheral Tissues. Molecular and Cellular Biology, 2009, 29, 4563-4573.	1.1	72
29	GLUT4 glucose transporter deficiency increases hepatic lipid production and peripheral lipid utilization. Journal of Clinical Investigation, 2004, 114, 1666-1675.	3.9	69
30	Structural basis for compound C inhibition of the human AMP-activated protein kinase Î±2 subunit kinase domain. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 480-487.	2.5	64
31	Central Melanocortin Signaling Restores Skeletal Muscle AMP-Activated Protein Kinase Phosphorylation in Mice Fed a High-Fat Diet. Cell Metabolism, 2007, 5, 395-402.	7.2	63
32	Regulatory mechanism of the ventromedial hypothalamus in enhancing glucose uptake in skeletal muscles. Brain Research, 1994, 649, 343-347.	1.1	62
33	L-Glutamate and Insulin Enhance Glycogen Synthesis in Cultured Astrocytes from the Rat Brain Through Different Intracellular Mechanisms. Journal of Neurochemistry, 2002, 73, 400-407.	2.1	61
34	Skeletal Muscle AMP-Activated Protein Kinase Phosphorylation Parallels Metabolic Phenotype in Leptin Transgenic Mice Under Dietary Modification. Diabetes, 2005, 54, 2365-2374.	0.3	58
35	Role of Central Leptin Signaling in the Starvation-Induced Alteration of B-Cell Development. Journal of Neuroscience, 2011, 31, 8373-8380.	1.7	58
36	Regulatory role of leptin in glucose and lipid metabolism in skeletal muscle. Indian Journal of Endocrinology and Metabolism, 2012, 16, 562.	0.2	58

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37	Systemic Glucoregulation by Glucose-Sensing Neurons in the Ventromedial Hypothalamic Nucleus (VMH). Journal of the Endocrine Society, 2017, 1, 449-459.	0.1	55
38	Role of the hypothalamus in insulin-independent glucose uptake in peripheral tissues. Brain Research Bulletin, 1991, 27, 501-504.	1.4	51
39	Muscle-Specific Deletion of the Glut4 Glucose Transporter Alters Multiple Regulatory Steps in Glycogen Metabolism. Molecular and Cellular Biology, 2005, 25, 9713-9723.	1.1	51
40	An enzymatic photometric assay for 2-deoxyglucose uptake in insulin-responsive tissues and 3T3-L1 adipocytes. Analytical Biochemistry, 2011, 412, 9-17.	1.1	50
41	DNA Methylation of Intronic Enhancers Directs Tissue-Specific Expression of Steroidogenic Factor 1/Adrenal 4 Binding Protein (SF-1/Ad4BP). Endocrinology, 2011, 152, 2100-2112.	1.4	50
42	Extracellular Signalâ€“Regulated Kinase in the Ventromedial Hypothalamus Mediates Leptin-Induced Glucose Uptake in Red-Type Skeletal Muscle. Diabetes, 2013, 62, 2295-2307.	0.3	50
43	Activation of AMPK-Regulated CRH Neurons in the PVH is Sufficient and Necessary to Induce Dietary Preference for Carbohydrate over Fat. Cell Reports, 2018, 22, 706-721.	2.9	50
44	Noradrenaline increases glucose transport into brown adipocytes in culture by a mechanism different from that of insulin. Biochemical Journal, 1996, 314, 485-490.	1.7	49
45	CXCL14 Deficiency in Mice Attenuates Obesity and Inhibits Feeding Behavior in a Novel Environment. PLoS ONE, 2010, 5, e10321.	1.1	49
46	Sympathetic Nerve Activity Maintains an Anti-Inflammatory State in Adipose Tissue in Male Mice by Inhibiting TNF-Î± Gene Expression in Macrophages. Endocrinology, 2015, 156, 3680-3694.	1.4	44
47	Cross Talk between Angiotensin II Type 1 and Type 2 Receptors: Cellular Mechanism of Angiotensin Type 2 Receptor-Mediated Cell Growth Inhibition.. Hypertension Research, 1999, 22, 67-74.	1.5	43
48	Involvement of Bradykinin and Nitric Oxide in Leptin-Mediated Glucose Uptake in Skeletal Muscle. Endocrinology, 2001, 142, 608-612.	1.4	42
49	Ventromedial hypothalamic stimulation accelerates norepinephrine turnover in brown adipose tissue of rats. Life Sciences, 1987, 41, 193-197.	2.0	40
50	Ventromedial Hypothalamic Nucleus-Specific Enhancer of Ad4BP/SF-1 Gene. Molecular Endocrinology, 2005, 19, 2812-2823.	3.7	40
51	Gamma-Aminobutyric Acid Signaling in Brown Adipose Tissue Promotes Systemic Metabolic Derangement in Obesity. Cell Reports, 2018, 24, 2827-2837.e5.	2.9	40
52	Hypothalamic neuronal circuits regulating hunger-induced taste modification. Nature Communications, 2019, 10, 4560.	5.8	39
53	SatB2-Expressing Neurons in the Parabrachial Nucleus Encode Sweet Taste. Cell Reports, 2019, 27, 1650-1656.e4.	2.9	39
54	Activation of Mitogen-Activated Protein Kinase by Norepinephrine in Brown Adipocytes from Rats¹. Endocrinology, 1997, 138, 248-253.	1.4	38

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55	Crystal Structure of the Ca2+/Calmodulin-dependent Protein Kinase Kinase in Complex with the Inhibitor STO-609. Journal of Biological Chemistry, 2011, 286, 22570-22579.	1.6	37
56	Neurosecretory protein GL stimulates food intake, de novo lipogenesis, and onset of obesity. ELife, 2017, 6, .	2.8	35
57	Interferon-Î³ Induces AT 2 Receptor Expression in Fibroblasts by Jak/STAT Pathway and Interferon Regulatory Factor-1. Circulation Research, 2000, 86, 233-240.	2.0	33
58	Alpha-synuclein elicits glucose uptake and utilization in adipocytes through the Gab1/PI3K/Akt transduction pathway. Cellular and Molecular Life Sciences, 2013, 70, 1123-1133.	2.4	33
59	Decreased Intake of Sucrose Solutions in Orexin Knockout Mice. Journal of Molecular Neuroscience, 2011, 43, 217-224.	1.1	32
60	PDK1-Foxo1 in Agouti-Related Peptide Neurons Regulates Energy Homeostasis by Modulating Food Intake and Energy Expenditure. PLoS ONE, 2011, 6, e18324.	1.1	30
61	Dexamethasone Induces the GLUT4 Glucose Transporter, and Responses of Glucose Transport to Norepinephrine and Insulin in Primary Cultures of Brown Adipocytes1. Journal of Biochemistry, 1994, 115, 1069-1074.	0.9	29
62	Induction of glucose uptake in skeletal muscle by central leptin is mediated by muscle Î²2-adrenergic receptor but not by AMPK. Scientific Reports, 2017, 7, 15141.	1.6	29
63	Metabolic adaptation of mice in a cool environment. Pflugers Archiv European Journal of Physiology, 2010, 459, 765-774.	1.3	26
64	Intestinal fatty acid infusion modulates food preference as well as calorie intake via the vagal nerve and midbrainâ€“hypothalamic neural pathways in rats. Metabolism: Clinical and Experimental, 2012, 61, 1312-1320.	1.5	25
65	Role of the Î±2 subunit of AMP-activated protein kinase and its nuclear localization in mitochondria and energy metabolism-related gene expressions in C2C12 cells. Metabolism: Clinical and Experimental, 2019, 90, 52-68.	1.5	23
66	Dmbx1 is essential in agouti-related protein action. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15514-15519.	3.3	18
67	Metabolic and morphological alterations of brown adipose tissue after sympathetic denervation in rats. Journal of the Autonomic Nervous System, 1986, 15, 197-204.	1.9	17
68	Leptin receptor signaling is required for high-fat diet-induced atrophic gastritis in mice. Nutrition and Metabolism, 2016, 13, 7.	1.3	17
69	Unsuppressed lipolysis in adipocytes is linked with enhanced gluconeogenesis and altered bile acid physiology in InsrP1195L/+ mice fed high-fat-diet. Scientific Reports, 2015, 5, 17565.	1.6	14
70	Involvement of Bradykinin and Nitric Oxide in Leptin-Mediated Glucose Uptake in Skeletal Muscle. , 0, .		12
71	Melaninâ€concentrating hormoneâ€producing neurons in the hypothalamus regulate brown adipose tissue and thus contribute to energy expenditure. Journal of Physiology, 2021, , .	1.3	10
72	Aggravation of chemically-induced injury in perfused rat liver by extracellular ATP. Life Sciences, 2000, 66, 2593-2601.	2.0	7

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73	Leptin, GABA, and Glucose Control. Cell Metabolism, 2013, 18, 304-306.	7.2	7
74	Adrenergic blockade paradoxically increases lipogenic response of brown adipose tissue to sympathetic nerve stimulation. Neuroscience Letters, 1990, 109, 341-346.	1.0	6
75	Importance of Adult Dmbx1 in Long-Lasting Orexigenic Effect of Agouti-Related Peptide. Endocrinology, 2016, 157, 245-257.	1.4	6
76	A combination of dietary fat intake and nicotine exposure enhances CB1 endocannabinoid receptor expression in hypothalamic nuclei in male mice. Neuroscience Letters, 2020, 714, 134550.	1.0	4
77	Intracerebroventricular injection of ghrelin decreases wheel running activity in rats. Peptides, 2017, 87, 12-19.	1.2	3
78	Homeostatic versus hedonic control of carbohydrate selection. Journal of Physiology, 2020, 598, 3831-3844.	1.3	3
79	Basigin deficiency prevents anaplerosis and ameliorates insulin resistance and hepatosteatosis. JCI Insight, 2021, 6, .	2.3	3
80	Hypothalamic control of glucose and lipid metabolism in skeletal muscle. The Journal of Physical Fitness and Sports Medicine, 2017, 6, 75-87.	0.2	1
81	Neuronal Control of Brown Adipose Tissue Thermogenesis During Hyperphagia. , 1986, , 189-198.		0
82	Central nervous system regulation of glucose uptake in peripheral tissues. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1992, 17, 299.	0.0	0
83	906 Regulatory mechanism of the ventromedial hypothalamus in enhancing glucose uptake in skeletal muscles of rats. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1993, 18, S96.	0.0	0
84	Sympathetic and Î²3-adrenergic regulation of glucose transport into brown adipocytes and skeletal muscle cells from rats. Experimental and Clinical Endocrinology and Diabetes, 1997, 105, 18-19.	0.6	0
85	Hypothalamic regulation of energy metabolism: Lessons from leptin-AMPK system. Autonomic Neuroscience: Basic and Clinical, 2007, 135, 19-20.	1.4	0
86	Neural Control of Homeostatic Feeding and Food Selection. , 0, , .		0