

Yasuhiko Minokoshi

List of Publications by Year in descending order

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86
papers

10,465
citations

53794

45
h-index

60623

81
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92
all docs

92
docs citations

92
times ranked

12048
citing authors

#	ARTICLE	IF	CITATIONS
1	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature</i> , 2002, 415, 339-343.	27.8	1,823
2	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , 2004, 428, 569-574.	27.8	1,464
3	PTP1B Regulates Leptin Signal Transduction In Vivo. <i>Developmental Cell</i> , 2002, 2, 489-495.	7.0	735
4	Adiponectin Stimulates AMP-Activated Protein Kinase in the Hypothalamus and Increases Food Intake. <i>Cell Metabolism</i> , 2007, 6, 55-68.	16.2	701
5	ATP-sensitive K ⁺ channels in the hypothalamus are essential for the maintenance of glucose homeostasis. <i>Nature Neuroscience</i> , 2001, 4, 507-512.	14.8	470
6	A Liver-Derived Secretory Protein, Selenoprotein P, Causes Insulin Resistance. <i>Cell Metabolism</i> , 2010, 12, 483-495.	16.2	469
7	Adipocyte/macrophage fatty acid binding proteins control integrated metabolic responses in obesity and diabetes. <i>Cell Metabolism</i> , 2005, 1, 107-119.	16.2	415
8	Regulation of Pancreatic β Cell Mass by Neuronal Signals from the Liver. <i>Science</i> , 2008, 322, 1250-1254.	12.6	206
9	Tissue-specific Ablation of the GLUT4 Glucose Transporter or the Insulin Receptor Challenges Assumptions about Insulin Action and Glucose Homeostasis. <i>Journal of Biological Chemistry</i> , 2003, 278, 33609-33612.	3.4	201
10	Leptin Stimulates Fatty Acid Oxidation and Peroxisome Proliferator-Activated Receptor α Gene Expression in Mouse C2C12 Myoblasts by Changing the Subcellular Localization of the α 2 Form of AMP-Activated Protein Kinase. <i>Molecular and Cellular Biology</i> , 2007, 27, 4317-4327.	2.3	201
11	Hypothalamic Orexin Stimulates Feeding-Associated Glucose Utilization in Skeletal Muscle via Sympathetic Nervous System. <i>Cell Metabolism</i> , 2009, 10, 466-480.	16.2	196
12	Conditional Ablation of Orexin/Hypocretin Neurons: A New Mouse Model for the Study of Narcolepsy and Orexin System Function. <i>Journal of Neuroscience</i> , 2014, 34, 6495-6509.	3.6	181
13	An Increase in Murine Skeletal Muscle Peroxisome Proliferator-Activated Receptor- γ Coactivator-1 α (PGC-1 α) mRNA in Response to Exercise Is Mediated by β -Adrenergic Receptor Activation. <i>Endocrinology</i> , 2007, 148, 3441-3448.	2.8	165
14	Lack of TRPM2 Impaired Insulin Secretion and Glucose Metabolisms in Mice. <i>Diabetes</i> , 2011, 60, 119-126.	0.6	163
15	Disruption of CXC Motif Chemokine Ligand-14 in Mice Ameliorates Obesity-induced Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2007, 282, 30794-30803.	3.4	147
16	Leptin Signaling Targets the Thyrotropin-Releasing Hormone Gene Promoter <i>in Vivo</i> . <i>Endocrinology</i> , 2004, 145, 2221-2227.	2.8	114
17	Chrelin raises [Ca ²⁺] _i via AMPK in hypothalamic arcuate nucleus NPY neurons. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 388-392.	2.1	112
18	Hyperglycemia induces skeletal muscle atrophy via a WWP1/KLF15 axis. <i>JCI Insight</i> , 2019, 4, .	5.0	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. <i>Diabetes</i> , 2009, 58, 2757-2765.	0.6	94
20	Induction of Hypothalamic Sirt1 Leads to Cessation of Feeding via Agouti-Related Peptide. <i>Endocrinology</i> , 2010, 151, 2556-2566.	2.8	92
21	GLUT4 glucose transporter deficiency increases hepatic lipid production and peripheral lipid utilization. <i>Journal of Clinical Investigation</i> , 2004, 114, 1666-1675.	8.2	91
22	Role of hypothalamic AMP-kinase in food intake regulation. <i>Nutrition</i> , 2008, 24, 786-790.	2.4	83
23	ATP-sensitive potassium channels participate in glucose uptake in skeletal muscle and adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 283, E1178-E1184.	3.5	81
24	Hypothalamic SIRT1 prevents age-associated weight gain by improving leptin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 819-831.	6.3	80
25	Accelerated norepinephrine turnover in peripheral tissues after ventromedial hypothalamic stimulation in rats. <i>Brain Research</i> , 1989, 481, 298-303.	2.2	79
26	Activation of SF1 Neurons in the Ventromedial Hypothalamus by DREADD Technology Increases Insulin Sensitivity in Peripheral Tissues. <i>Diabetes</i> , 2017, 66, 2372-2386.	0.6	77
27	Effects of noradrenaline on the cell-surface glucose transporters in cultured brown adipocytes: novel mechanism for selective activation of GLUT1 glucose transporters. <i>Biochemical Journal</i> , 1998, 330, 397-403.	3.7	72
28	Neuronal Protein Tyrosine Phosphatase 1B Deficiency Results in Inhibition of Hypothalamic AMPK and Isoform-Specific Activation of AMPK in Peripheral Tissues. <i>Molecular and Cellular Biology</i> , 2009, 29, 4563-4573.	2.3	72
29	GLUT4 glucose transporter deficiency increases hepatic lipid production and peripheral lipid utilization. <i>Journal of Clinical Investigation</i> , 2004, 114, 1666-1675.	8.2	69
30	Structural basis for compound C inhibition of the human AMP-activated protein kinase α 2 subunit kinase domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 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. <i>Cell Metabolism</i> , 2007, 5, 395-402.	16.2	63
32	Regulatory mechanism of the ventromedial hypothalamus in enhancing glucose uptake in skeletal muscles. <i>Brain Research</i> , 1994, 649, 343-347.	2.2	62
33	L-Glutamate and Insulin Enhance Glycogen Synthesis in Cultured Astrocytes from the Rat Brain Through Different Intracellular Mechanisms. <i>Journal of Neurochemistry</i> , 2002, 73, 400-407.	3.9	61
34	Skeletal Muscle AMP-Activated Protein Kinase Phosphorylation Parallels Metabolic Phenotype in Leptin Transgenic Mice Under Dietary Modification. <i>Diabetes</i> , 2005, 54, 2365-2374.	0.6	58
35	Role of Central Leptin Signaling in the Starvation-Induced Alteration of B-Cell Development. <i>Journal of Neuroscience</i> , 2011, 31, 8373-8380.	3.6	58
36	Regulatory role of leptin in glucose and lipid metabolism in skeletal muscle. <i>Indian Journal of Endocrinology and Metabolism</i> , 2012, 16, 562.	0.4	58

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37	Systemic Glucoregulation by Glucose-Sensing Neurons in the Ventromedial Hypothalamic Nucleus (VMH). <i>Journal of the Endocrine Society</i> , 2017, 1, 449-459.	0.2	55
38	Role of the hypothalamus in insulin-independent glucose uptake in peripheral tissues. <i>Brain Research Bulletin</i> , 1991, 27, 501-504.	3.0	51
39	Muscle-Specific Deletion of the Glut4 Glucose Transporter Alters Multiple Regulatory Steps in Glycogen Metabolism. <i>Molecular and Cellular Biology</i> , 2005, 25, 9713-9723.	2.3	51
40	An enzymatic photometric assay for 2-deoxyglucose uptake in insulin-responsive tissues and 3T3-L1 adipocytes. <i>Analytical Biochemistry</i> , 2011, 412, 9-17.	2.4	50
41	DNA Methylation of Intronic Enhancers Directs Tissue-Specific Expression of Steroidogenic Factor 1/Adrenal 4 Binding Protein (SF-1/Ad4BP). <i>Endocrinology</i> , 2011, 152, 2100-2112.	2.8	50
42	Extracellular Signal-Regulated Kinase in the Ventromedial Hypothalamus Mediates Leptin-Induced Glucose Uptake in Red-Type Skeletal Muscle. <i>Diabetes</i> , 2013, 62, 2295-2307.	0.6	50
43	Activation of AMPK-Regulated CRH Neurons in the PVH is Sufficient and Necessary to Induce Dietary Preference for Carbohydrate over Fat. <i>Cell Reports</i> , 2018, 22, 706-721.	6.4	50
44	Noradrenaline increases glucose transport into brown adipocytes in culture by a mechanism different from that of insulin. <i>Biochemical Journal</i> , 1996, 314, 485-490.	3.7	49
45	CXCL14 Deficiency in Mice Attenuates Obesity and Inhibits Feeding Behavior in a Novel Environment. <i>PLoS ONE</i> , 2010, 5, e10321.	2.5	49
46	Sympathetic Nerve Activity Maintains an Anti-Inflammatory State in Adipose Tissue in Male Mice by Inhibiting TNF- α Gene Expression in Macrophages. <i>Endocrinology</i> , 2015, 156, 3680-3694.	2.8	44
47	Cross Talk between Angiotensin II Type 1 and Type 2 Receptors: Cellular Mechanism of Angiotensin Type 2 Receptor-Mediated Cell Growth Inhibition.. <i>Hypertension Research</i> , 1999, 22, 67-74.	2.7	43
48	Involvement of Bradykinin and Nitric Oxide in Leptin-Mediated Glucose Uptake in Skeletal Muscle. <i>Endocrinology</i> , 2001, 142, 608-612.	2.8	42
49	Ventromedial hypothalamic stimulation accelerates norepinephrine turnover in brown adipose tissue of rats. <i>Life Sciences</i> , 1987, 41, 193-197.	4.3	40
50	Ventromedial Hypothalamic Nucleus-Specific Enhancer of Ad4BP/SF-1 Gene. <i>Molecular Endocrinology</i> , 2005, 19, 2812-2823.	3.7	40
51	Gamma-Aminobutyric Acid Signaling in Brown Adipose Tissue Promotes Systemic Metabolic Derangement in Obesity. <i>Cell Reports</i> , 2018, 24, 2827-2837.e5.	6.4	40
52	Hypothalamic neuronal circuits regulating hunger-induced taste modification. <i>Nature Communications</i> , 2019, 10, 4560.	12.8	39
53	SatB2-Expressing Neurons in the Parabrachial Nucleus Encode Sweet Taste. <i>Cell Reports</i> , 2019, 27, 1650-1656.e4.	6.4	39
54	Activation of Mitogen-Activated Protein Kinase by Norepinephrine in Brown Adipocytes from Rats. <i>Endocrinology</i> , 1997, 138, 248-253.	2.8	38

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55	Crystal Structure of the Ca ²⁺ /Calmodulin-dependent Protein Kinase Kinase in Complex with the Inhibitor STO-609. <i>Journal of Biological Chemistry</i> , 2011, 286, 22570-22579.	3.4	37
56	Neurosecretory protein GL stimulates food intake, de novo lipogenesis, and onset of obesity. <i>ELife</i> , 2017, 6, .	6.0	35
57	Interferon- β Induces AT 2 Receptor Expression in Fibroblasts by Jak/STAT Pathway and Interferon Regulatory Factor-1. <i>Circulation Research</i> , 2000, 86, 233-240.	4.5	33
58	Alpha-synuclein elicits glucose uptake and utilization in adipocytes through the Gab1/PI3K/Akt transduction pathway. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 1123-1133.	5.4	33
59	Decreased Intake of Sucrose Solutions in Orexin Knockout Mice. <i>Journal of Molecular Neuroscience</i> , 2011, 43, 217-224.	2.3	32
60	PDK1-Foxo1 in Agouti-Related Peptide Neurons Regulates Energy Homeostasis by Modulating Food Intake and Energy Expenditure. <i>PLoS ONE</i> , 2011, 6, e18324.	2.5	30
61	Dexamethasone Induces the GLUT4 Glucose Transporter, and Responses of Glucose Transport to Norepinephrine and Insulin in Primary Cultures of Brown Adipocytes1. <i>Journal of Biochemistry</i> , 1994, 115, 1069-1074.	1.7	29
62	Induction of glucose uptake in skeletal muscle by central leptin is mediated by muscle β 2-adrenergic receptor but not by AMPK. <i>Scientific Reports</i> , 2017, 7, 15141.	3.3	29
63	Metabolic adaptation of mice in a cool environment. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 459, 765-774.	2.8	26
64	Intestinal fatty acid infusion modulates food preference as well as calorie intake via the vagal nerve and midbrain "hypothalamic neural pathways in rats. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 1312-1320.	3.4	25
65	Role of the β 2 subunit of AMP-activated protein kinase and its nuclear localization in mitochondria and energy metabolism-related gene expressions in C2C12 cells. <i>Metabolism: Clinical and Experimental</i> , 2019, 90, 52-68.	3.4	23
66	Dmbx1 is essential in agouti-related protein action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15514-15519.	7.1	18
67	Metabolic and morphological alterations of brown adipose tissue after sympathetic denervation in rats. <i>Journal of the Autonomic Nervous System</i> , 1986, 15, 197-204.	1.9	17
68	Leptin receptor signaling is required for high-fat diet-induced atrophic gastritis in mice. <i>Nutrition and Metabolism</i> , 2016, 13, 7.	3.0	17
69	Unsuppressed lipolysis in adipocytes is linked with enhanced gluconeogenesis and altered bile acid physiology in <i>InsrP1195L/+</i> mice fed high-fat-diet. <i>Scientific Reports</i> , 2015, 5, 17565.	3.3	14
70	Involvement of Bradykinin and Nitric Oxide in Leptin-Mediated Glucose Uptake in Skeletal Muscle. <i>Endocrinology</i> , 2001, 142, 608-612.	2.8	12
71	Melanin-concentrating hormone-producing neurons in the hypothalamus regulate brown adipose tissue and thus contribute to energy expenditure. <i>Journal of Physiology</i> , 2021, , .	2.9	10
72	Aggravation of chemically-induced injury in perfused rat liver by extracellular ATP. <i>Life Sciences</i> , 2000, 66, 2593-2601.	4.3	7

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73	Leptin, GABA, and Glucose Control. <i>Cell Metabolism</i> , 2013, 18, 304-306.	16.2	7
74	Adrenergic blockade paradoxically increases lipogenic response of brown adipose tissue to sympathetic nerve stimulation. <i>Neuroscience Letters</i> , 1990, 109, 341-346.	2.1	6
75	Importance of Adult Dmbx1 in Long-Lasting Orexigenic Effect of Agouti-Related Peptide. <i>Endocrinology</i> , 2016, 157, 245-257.	2.8	6
76	A combination of dietary fat intake and nicotine exposure enhances CB1 endocannabinoid receptor expression in hypothalamic nuclei in male mice. <i>Neuroscience Letters</i> , 2020, 714, 134550.	2.1	4
77	Intracerebroventricular injection of ghrelin decreases wheel running activity in rats. <i>Peptides</i> , 2017, 87, 12-19.	2.4	3
78	Homeostatic versus hedonic control of carbohydrate selection. <i>Journal of Physiology</i> , 2020, 598, 3831-3844.	2.9	3
79	Basigin deficiency prevents anaplerosis and ameliorates insulin resistance and hepatosteatosis. <i>JCI Insight</i> , 2021, 6, .	5.0	3
80	Hypothalamic control of glucose and lipid metabolism in skeletal muscle. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2017, 6, 75-87.	0.3	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. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1992, 17, 299.	0.0	0
83	906 Regulatory mechanism of the ventromedial hypothalamus in enhancing glucose uptake in skeletal muscles of rats. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1993, 18, S96.	0.0	0
84	Sympathetic and β -adrenergic regulation of glucose transport into brown adipocytes and skeletal muscle cells from rats. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1997, 105, 18-19.	1.2	0
85	Hypothalamic regulation of energy metabolism: Lessons from leptin-AMPK system. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2007, 135, 19-20.	2.8	0
86	Neural Control of Homeostatic Feeding and Food Selection. , 0, , .		0