

Tatsuya hayashi

List of Publications by Year in descending order

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104
papers

5,042
citations

126708

33
h-index

88477

70
g-index

104
all docs

104
docs citations

104
times ranked

5870
citing authors

#	ARTICLE	IF	CITATIONS
1	A Muscle-Specific Insulin Receptor Knockout Exhibits Features of the Metabolic Syndrome of NIDDM without Altering Glucose Tolerance. <i>Molecular Cell</i> , 1998, 2, 559-569.	4.5	1,071
2	Pathophysiological role of leptin in obesity-related hypertension. <i>Journal of Clinical Investigation</i> , 2000, 105, 1243-1252.	3.9	419
3	Exercise Induces Isoform-Specific Increase in 5 α -AMP-Activated Protein Kinase Activity in Human Skeletal Muscle. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 1150-1155.	1.0	318
4	Exercise regulation of glucose transport in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 273, E1039-E1051.	1.8	249
5	Transgenic Overexpression of Leptin Rescues Insulin Resistance and Diabetes in a Mouse Model of Lipoatrophic Diabetes. <i>Diabetes</i> , 2001, 50, 1440-1448.	0.3	219
6	Efficacy and Safety of Leptin-Replacement Therapy and Possible Mechanisms of Leptin Actions in Patients with Generalized Lipodystrophy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 532-541.	1.8	216
7	AMP-activated protein kinase activity and glucose uptake in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 280, E677-E684.	1.8	195
8	Possible involvement of the α 1 isoform of 5 α -AMP-activated protein kinase in oxidative stress-stimulated glucose transport in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E166-E173.	1.8	125
9	Electrical stimulation of human lower extremities enhances energy consumption, carbohydrate oxidation, and whole body glucose uptake. <i>Journal of Applied Physiology</i> , 2004, 96, 911-916.	1.2	114
10	An angiotensin II AT1 receptor antagonist, telmisartan augments glucose uptake and GLUT4 protein expression in 3T3-L1 adipocytes. <i>FEBS Letters</i> , 2004, 576, 492-497.	1.3	90
11	Up-Regulation of Uncoupling Protein 3 Gene Expression by Fatty Acids and Agonists for PPARs in L6 Myotubes. <i>Endocrinology</i> , 2001, 142, 4189-4194.	1.4	83
12	Enhancement of whole body glucose uptake during and after human skeletal muscle low-frequency electrical stimulation. <i>Journal of Applied Physiology</i> , 2003, 94, 2107-2112.	1.2	74
13	High-fat diet impairs the effects of a single bout of endurance exercise on glucose transport and insulin sensitivity in rat skeletal muscle. <i>Metabolism: Clinical and Experimental</i> , 2007, 56, 1719-1728.	1.5	73
14	Caffeine acutely activates 5 α -adenosine monophosphate α -activated protein kinase and increases insulin-independent glucose transport in rat skeletal muscles. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 1609-1617.	1.5	73
15	Skeletal muscle contractile activity in vitro stimulates mitogen-activated protein kinase signaling. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 277, C701-C707.	2.1	69
16	Analysis of Rat Insulin II Promoter-Ghrelin Transgenic Mice and Rat Glucagon Promoter-Ghrelin Transgenic Mice. <i>Journal of Biological Chemistry</i> , 2005, 280, 15247-15256.	1.6	67
17	Altered autonomic nervous system activity as a potential etiological factor of premenstrual syndrome and premenstrual dysphoric disorder. <i>BioPsychoSocial Medicine</i> , 2007, 1, 24.	0.9	66
18	Leptin Activates Hepatic 5 α -AMP-activated Protein Kinase through Sympathetic Nervous System and α 1-Adrenergic Receptor. <i>Journal of Biological Chemistry</i> , 2012, 287, 40441-40447.	1.6	66

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19	Coffee polyphenol caffeic acid but not chlorogenic acid increases 5â€²AMP-activated protein kinase and insulin-independent glucose transport in rat skeletal muscle. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 1403-1409.	1.9	65
20	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.	7.2	63
21	Effect of acute activation of 5â€²AMP-activated protein kinase on glycogen regulation in isolated rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2007, 102, 1007-1013.	1.2	63
22	Skeletal Muscle AMP-Activated Protein Kinase Phosphorylation Parallels Metabolic Phenotype in Leptin Transgenic Mice Under Dietary Modification. <i>Diabetes</i> , 2005, 54, 2365-2374.	0.3	58
23	Autonomic nervous system activity in the late luteal phase of eumenorrhic women with premenstrual symptomatology. <i>Journal of Psychosomatic Obstetrics and Gynaecology</i> , 2006, 27, 131-139.	1.1	58
24	Ghrelin Expression in Islet Cell Tumors: Augmented Expression of Ghrelin in a Case of Glucagonoma with Multiple Endocrine Neoplasm Type I. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 4885-4888.	1.8	48
25	Biopsychosocial aspects of premenstrual syndrome and premenstrual dysphoric disorder. <i>Gynecological Endocrinology</i> , 2013, 29, 67-73.	0.7	47
26	Gene and Phenotype Analysis of Congenital Generalized Lipodystrophy in Japanese: A Novel Homozygous Nonsense Mutation in Seipin Gene. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004, 89, 2360-2364.	1.8	46
27	Does lavender aromatherapy alleviate premenstrual emotional symptoms?: a randomized crossover trial. <i>BioPsychoSocial Medicine</i> , 2013, 7, 12.	0.9	46
28	Low-intensity contraction activates the β 1-isoform of 5â€²AMP-activated protein kinase in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E583-E590.	1.8	45
29	Involvement of AMPK in regulating slow-twitch muscle atrophy during hindlimb unloading in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E651-E662.	1.8	45
30	β 2 Isoform-specific activation of 5â€²adenosine monophosphate-activated protein kinase by 5-aminoimidazole-4-carboxamide-1- β -D-ribofuranoside at a physiological level activates glucose transport and increases glucose transporter 4 in mouse skeletal muscle. <i>Metabolism: Clinical and Experimental</i> , 2006, 55, 300-308.	1.5	43
31	Berberine-induced activation of 5â€²-adenosine monophosphate-activated protein kinase and glucose transport in rat skeletal muscles. <i>Metabolism: Clinical and Experimental</i> , 2010, 59, 1619-1627.	1.5	42
32	Leucine modulates contraction- and insulin-stimulated glucose transport and upstream signaling events in rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2010, 108, 274-282.	1.2	39
33	Leptin receptor polymorphism is associated with serum lipid levels and impairment of cholesterol lowering effect by simvastatin in Japanese men. <i>Diabetes Research and Clinical Practice</i> , 2003, 62, 169-175.	1.1	38
34	Effects of Olfactory Stimulation from the Fragrance of the Japanese Citrus Fruit Yuzu (<i>Citrus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 Marker. <i>Journal of Alternative and Complementary Medicine</i> , 2014, 20, 500-506.	2.1	34
35	Caffeine modulates phosphorylation of insulin receptor substrate-1 and impairs insulin signal transduction in rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2011, 111, 1629-1636.	1.2	33
36	Stair climbing/descending exercise for a short time decreases blood glucose levels after a meal in participants with type 2 diabetes. <i>BMJ Open Diabetes Research and Care</i> , 2016, 4, e000232.	1.2	32

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37	Aromatic effects of a Japanese citrus fruit "yuzu (<i>Citrus junos</i> Sieb. ex Tanaka)" on psychoemotional states and autonomic nervous system activity during the menstrual cycle: a single-blind randomized controlled crossover study. <i>BioPsychoSocial Medicine</i> , 2016, 10, 11.	0.9	30
38	Potential involvement of dietary advanced glycation end products in impairment of skeletal muscle growth and muscle contractile function in mice. <i>British Journal of Nutrition</i> , 2017, 117, 21-29.	1.2	27
39	<i>Morus alba</i> leaf extract stimulates 5'-AMP-activated protein kinase in isolated rat skeletal muscle. <i>Journal of Ethnopharmacology</i> , 2009, 122, 54-59.	2.0	26
40	A short bout of stair climbing "descending exercise attenuates postprandial hyperglycemia in middle-aged males with impaired glucose tolerance. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 193-196.	0.9	26
41	A potential relation between premenstrual symptoms and subjective perception of health and stress among college students: a cross-sectional study. <i>BioPsychoSocial Medicine</i> , 2019, 13, 26.	0.9	25
42	Heat stress acutely activates insulin-independent glucose transport and 5'-AMP-activated protein kinase prior to an increase in HSP72 protein in rat skeletal muscle. <i>Physiological Reports</i> , 2015, 3, e12601.	0.7	24
43	Enteral supplement enriched with glutamine, fiber, and oligosaccharide attenuates experimental colitis in mice. <i>Nutrition</i> , 2013, 29, 549-555.	1.1	22
44	Effects of a high-fat diet on insulin receptor kinase and the glucose transporter in rats. <i>Journal of Nutritional Biochemistry</i> , 1992, 3, 241-250.	1.9	21
45	Dehydroepiandrosterone activates AMP kinase and regulates GLUT4 and PGC-1 α expression in C2C12 myotubes. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 42-47.	1.0	20
46	Exercise-induced mitochondrial biogenesis coincides with the expression of mitochondrial translation factors in murine skeletal muscle. <i>Physiological Reports</i> , 2018, 6, e13893.	0.7	20
47	Evidence for differential regulation of lactate metabolic properties in aged and unloaded rat skeletal muscle. <i>Experimental Gerontology</i> , 2009, 44, 280-288.	1.2	18
48	Increased salivary chromogranin A in women with severe negative mood states in the premenstrual phase. <i>Journal of Psychosomatic Obstetrics and Gynaecology</i> , 2012, 33, 120-128.	1.1	18
49	Subthreshold electrical stimulation reduces motor unit discharge variability and decreases the force fluctuations of plantar flexion. <i>Neuroscience Letters</i> , 2012, 513, 146-150.	1.0	17
50	AICAR stimulation metabolome widely mimics electrical contraction in isolated rat epitrochlearis muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C1214-C1222.	2.1	16
51	The Protective Effect of Brazilian Propolis against Glycation Stress in Mouse Skeletal Muscle. <i>Foods</i> , 2019, 8, 439.	1.9	16
52	Clinical Manifestations due to a Point Mutation of the Mitochondrial tRNA ^{Leu(UUR)} Ge Five Families with Diabetes Mellitus.. <i>Internal Medicine</i> , 1998, 37, 265-272.	0.3	15
53	Association of Ob-R gene polymorphism and insulin resistance in Japanese men. <i>Metabolism: Clinical and Experimental</i> , 2004, 53, 650-654.	1.5	15
54	Exercise training increases C1SD family protein expression in murine skeletal muscle and white adipose tissue. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 571-577.	1.0	15

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55	Effect of Tryptophan, Vitamin B ₆ , and Nicotinamide-Containing Supplement Loading between Meals on Mood and Autonomic Nervous System Activity in Young Adults with Subclinical Depression: A Randomized, Double-Blind, and Placebo-Controlled Study. <i>Journal of Nutritional Science and Vitaminology</i> , 2019, 65, 507-514.	0.2	15
56	Evidence for organic cation transporter-mediated metformin transport and 5'-adenosine monophosphate-activated protein kinase activation in rat skeletal muscles. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 296-304.	1.5	14
57	Caffeine and contraction synergistically stimulate 5'-AMP-activated protein kinase and insulin-independent glucose transport in rat skeletal muscle. <i>Physiological Reports</i> , 2015, 3, e12592.	0.7	14
58	Does Japanese Citrus Fruit Yuzu (<i>Citrus junos</i> Sieb. ex Tanaka) Fragrance Have Lavender-Like Therapeutic Effects That Alleviate Premenstrual Emotional Symptoms? A Single-Blind Randomized Crossover Study. <i>Journal of Alternative and Complementary Medicine</i> , 2017, 23, 461-470.	2.1	14
59	Stair ascending-descending exercise accelerates the decrease in postprandial hyperglycemia more efficiently than bicycle exercise. <i>BMJ Open Diabetes Research and Care</i> , 2017, 5, e000428.	1.2	14
60	Repeated 3-minute stair climbing-descending exercise after a meal over 2 weeks increases serum 1,5-anhydroglucitol levels in people with type 2 diabetes. <i>Journal of Physical Therapy Science</i> , 2017, 29, 75-78.	0.2	14
61	Pu-Erh Tea Hot-Water Extract Activates Akt and Induces Insulin-Independent Glucose Transport in Rat Skeletal Muscle. <i>Journal of Medicinal Food</i> , 2013, 16, 259-262.	0.8	12
62	AMPK Mediates Muscle Mass Change But Not the Transition of Myosin Heavy Chain Isoforms during Unloading and Reloading of Skeletal Muscles in Mice. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2954.	1.8	12
63	Percutaneous Electrical Muscle Stimulation Attenuates Postprandial Hyperglycemia in Obese and Pre-obese Japanese Men. <i>International Journal of Sport and Health Science</i> , 2010, 8, 1-6.	0.0	10
64	Insulin resistance in werner's syndrome. <i>Mechanisms of Ageing and Development</i> , 1992, 63, 11-25.	2.2	9
65	Effects of mild hyperbaric oxygen on osteoporosis induced by hindlimb unloading in rats. <i>Journal of Bone and Mineral Metabolism</i> , 2020, 38, 631-638.	1.3	9
66	The effect of advanced glycation end products on cellular signaling molecules in skeletal muscle. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2018, 7, 229-238.	0.2	8
67	The Effects of Caffeine on Metabolomic Responses to Muscle Contraction in Rat Skeletal Muscle. <i>Nutrients</i> , 2019, 11, 1819.	1.7	8
68	MOVEMENT OF ELECTROENCEPHALOGRAM AND PLASMA β -ENDORPHIN IN THE AEROBIC EXERCISE. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 1996, 45, 519-526.	0.0	7
69	Salicylate acutely stimulates 5'-AMP-activated protein kinase and insulin-independent glucose transport in rat skeletal muscles. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 81-85.	1.0	6
70	Dehydroepiandrosterone activates 5'-adenosine monophosphate-activated protein kinase and suppresses lipid accumulation and adipocyte differentiation in 3T3-L1 cells. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 612-619.	1.0	6
71	AMPK is indispensable for overload-induced muscle glucose uptake and glycogenesis but dispensable for inducing hypertrophy in mice. <i>FASEB Journal</i> , 2021, 35, e21459.	0.2	6
72	Health promotion with stair exercise. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2014, 3, 173-179.	0.2	5

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73	Caffeine Affects Myotube Size As Well As Regulates Protein Degradation and Protein Synthesis Pathways in C2C12 Skeletal Muscle Cells. <i>Journal of Caffeine Research</i> , 2016, 6, 88-96.	1.0	5
74	Muscle denervation reduces mitochondrial biogenesis and mitochondrial translation factor expression in mice. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 146-152.	1.0	5
75	Effects of combined β -adrenergic and cholinergic blockade on the initial ventilatory response to exercise in humans. <i>European Journal of Applied Physiology</i> , 1997, 76, 230-235.	1.2	4
76	Stair climbingâ€“descending exercise following meals improves 24-hour glucose excursions in people with type 2 diabetes. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2021, 10, 51-56.	0.2	4
77	Association of Glycative Stress With Motor and Muscle Function. <i>Frontiers in Physiology</i> , 2022, 13, 855358.	1.3	4
78	Sympatho-vagal activities during the menstrual cycle of eumenorrheic women with premenstrual symptomatology. <i>International Congress Series</i> , 2006, 1287, 323-328.	0.2	3
79	Effect of Aldehyde Dehydrogenaseâ€² Genotype on Cardiac Autonomic Nervous Responses to Moderate Alcohol Ingestion. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1422-1428.	1.4	3
80	Regulatory Mechanism of Skeletal Muscle Glucose Transport by Phenolic Acids. , 2017, , .		3
81	<p>Effects of Exposure to Mild Hyperbaric Oxygen on DSS-Induced Colonic Inflammation and Diarrhea in Rats</p>. <i>Journal of Inflammation Research</i> , 2019, Volume 12, 293-299.	1.6	3
82	Physical Activity, Nutritional Status, and Autonomic Nervous System Activity in Healthy Young Adults with Higher Levels of Depressive Symptoms and Matched Controls without Depressive Symptoms: A Cross-Sectional Study. <i>Nutrients</i> , 2020, 12, 690.	1.7	3
83	Involvement of receptor for advanced glycation end products in microgravity-induced skeletal muscle atrophy in mice. <i>Acta Astronautica</i> , 2020, 176, 332-340.	1.7	3
84	Activation of 5â€²AMP-activated protein kinase in skeletal muscle by exercise and phytochemicals. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2014, 3, 55-64.	0.2	3
85	Insulin-Stimulated Glucose Uptake and Fasting Blood Glucose.. <i>Endocrinologia Japonica</i> , 1991, 38, 421-427.	0.5	2
86	Simultaneous Onset of Type 1 Diabetes Mellitus and Painless Thyroiditis Following Acute Pancreatitis.. <i>Internal Medicine</i> , 2001, 40, 515-518.	0.3	2
87	DETERMINATION OF OPTIMAL EXERCISE INTENSITY BASED ON REAL-TIME ANALYSIS OF HEART RATE VARIABILITY DURING EXERCISE. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2003, 52, 295-303.	0.0	2
88	Methylglyoxal reduces molecular responsiveness to 4 weeks of endurance exercise in mouse plantaris muscle. <i>Journal of Applied Physiology</i> , 2022, 132, 477-488.	1.2	2
89	Fasting potentiates insulin-mediated glucose uptake in rested and prior-contracted rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E425-E435.	1.8	2
90	Antihyperglycemic mechanism of M16209, an antidiabetic agent, in 3T3-L1 adipocytes. <i>Life Sciences</i> , 1997, 60, 1821-1831.	2.0	1

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91	The Effect of Glycation Stress on Skeletal Muscle. , 0, , .		1
92	Increased dystrophin mRNA and protein levels in atrophic skeletal muscles in streptozotocin-induced diabetic rats. The Journal of Physical Fitness and Sports Medicine, 2012, 1, 709-713.	0.2	1
93	Caffeine and Insulin-Independent Glucose Transport. , 2013, , 1077-1088.		0
94	The effect of short-term heat stress on protein synthesis signaling in isolated rat skeletal muscle. The Journal of Physical Fitness and Sports Medicine, 2018, 7, 87-93.	0.2	0
95	Low-Intensity Contraction Activates the α_1 Isoform of 5'AMP-Activated Protein Kinase, and Possibly Leads to Enhanced Glucose Transport and Acetyl-CoA Carboxylase Phosphorylation in Rat Skeletal Muscle. Japanese Journal of Physical Fitness and Sports Medicine, 2006, 55, 22-22.	0.0	0
96	High-fat diet reduces the stimulatory effects of a single bout of exercise on glucose transport and insulin sensitivity in rat skeletal muscle.. Japanese Journal of Physical Fitness and Sports Medicine, 2007, 56, 35-35.	0.0	0
97	Caffeine can activate 5'AMP-activated protein kinase and increase insulin-independent glucose uptake in rat skeletal muscles. Japanese Journal of Physical Fitness and Sports Medicine, 2009, 58, 50-50.	0.0	0
98	Effect of aldehyde dehydrogenase-2 genotype on cardiac autonomic nervous responses to moderate alcohol ingestion. Japanese Journal of Physical Fitness and Sports Medicine, 2010, 59, 69-69.	0.0	0
99	Metabolic Sensor for Low Intensity Exercise: Insights from AMPK α_1 Activation in Skeletal Muscle. The Journal of Physical Fitness and Sports Medicine, 2012, 1, 59-64.	0.2	0
100	Correlation between dietary zinc intake and the development of renal osteodystrophy.. Nihon Toseki Igakkai Zasshi, 1997, 30, 1253-1257.	0.2	0
101	Caffeine Increases Contraction-Stimulated 5 α -AMP-Activated Protein Kinase Activity and Insulin-Independent Glucose Transport in Rat Skeletal Muscle. Juntendo Medical Journal, 2016, 62, 156-164.	0.1	0
102	AMPK-Mediated Regulation of Protein Degradation Systems in Unloaded Mouse Skeletal Muscle. Juntendo Medical Journal, 2016, 62, 172-178.	0.1	0
103	Premenstrual disorders: luteal phase recurrent enigmatic conditions. , 2017, , .		0
104	TLR4-Mediated Inflammatory Responses Regulate Exercise-Induced Molecular Adaptations in Mouse Skeletal Muscle. International Journal of Molecular Sciences, 2022, 23, 1877.	1.8	0