

Katsuya Hirasaka

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,082
citations

279798

23
h-index

254184

43
g-index

91
all docs

91
docs citations

91
times ranked

2589
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletal muscle gene expression in space-flown rats. <i>FASEB Journal</i> , 2004, 18, 522-524.	0.5	178
2	Ubiquitin Ligase Cbl-b Is a Negative Regulator for Insulin-Like Growth Factor 1 Signaling during Muscle Atrophy Caused by Unloading. <i>Molecular and Cellular Biology</i> , 2009, 29, 4798-4811.	2.3	165
3	Glucose Infusion Suppresses Surgery-induced Muscle Protein Breakdown by Inhibiting Ubiquitin-proteasome Pathway in Rats. <i>Anesthesiology</i> , 2009, 110, 81-88.	2.5	133
4	Osteoactivin upregulates expression of MMP-3 and MMP-9 in fibroblasts infiltrated into denervated skeletal muscle in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C697-C707.	4.6	83
5	Ubiquitin ligase gene expression in healthy volunteers with 20-day bedrest. <i>Muscle and Nerve</i> , 2006, 34, 463-469.	2.2	76
6	Deficiency of <i>Cbl-b</i> Gene Enhances Infiltration and Activation of Macrophages in Adipose Tissue and Causes Peripheral Insulin Resistance in Mice. <i>Diabetes</i> , 2007, 56, 2511-2522.	0.6	73
7	Osteoactivin fragments produced by ectodomain shedding induce MMP-3 expression via ERK pathway in mouse NIH-3T3 fibroblasts. <i>FEBS Letters</i> , 2007, 581, 5743-5750.	2.8	64
8	Distinct expression of mast cell tryptase and protease activated receptor-2 in synovia of rheumatoid arthritis and osteoarthritis. <i>Clinical Rheumatology</i> , 2007, 26, 1284-1292.	2.2	63
9	Subcutaneous injection, from birth, of epigallocatechin-3-gallate, a component of green tea, limits the onset of muscular dystrophy in mdx mice: a quantitative histological, immunohistochemical and electrophysiological study. <i>Histochemistry and Cell Biology</i> , 2008, 129, 489-501.	1.7	55
10	Preventive effect of dietary quercetin on disuse muscle atrophy by targeting mitochondria in denervated mice. <i>Journal of Nutritional Biochemistry</i> , 2016, 31, 67-76.	4.2	52
11	Polyphenols prevent clinorotation-induced expression of atrogenes in mouse C2C12 skeletal myotubes. <i>Journal of Medical Investigation</i> , 2009, 56, 26-32.	0.5	48
12	Cysteine Supplementation Prevents Unweighting-Induced Ubiquitination in Association with Redox Regulation in Rat Skeletal Muscle. <i>Biological Chemistry</i> , 2002, 383, 715-21.	2.5	47
13	Ubiquitin Ligase Cbl-b Downregulates Bone Formation Through Suppression of IGF-I Signaling in Osteoblasts During Denervation. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 722-734.	2.8	47
14	Reactive oxygen species upregulate expression of muscle atrophy-associated ubiquitin ligase Cbl-b in rat L6 skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C721-C731.	4.6	46
15	Isoflavones Derived from Soy Beans Prevent MuRF1-Mediated Muscle Atrophy in C2C12 Myotubes through SIRT1 Activation. <i>Journal of Nutritional Science and Vitaminology</i> , 2013, 59, 317-324.	0.6	45
16	Clinorotation prevents differentiation of rat myoblastic L6 cells in association with reduced NF- κ B signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1743, 130-140.	4.1	44
17	Cbl-b Is a Critical Regulator of Macrophage Activation Associated With Obesity-Induced Insulin Resistance in Mice. <i>Diabetes</i> , 2013, 62, 1957-1969.	0.6	43
18	Overexpression of osteoactivin protects skeletal muscle from severe degeneration caused by long-term denervation in mice. <i>Journal of Medical Investigation</i> , 2007, 54, 248-254.	0.5	38

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19	Effects of dietary fish oil on lipid peroxidation and serum triacylglycerol levels in psychologically stressed mice. <i>Nutrition</i> , 2008, 24, 67-75.	2.4	32
20	Peroxidized cholesterol-induced matrix metalloproteinase-9 activation and its suppression by dietary β -carotene in photoaging of hairless mouse skin. <i>Journal of Nutritional Biochemistry</i> , 2009, 20, 389-398.	4.2	32
21	Unloading stress disturbs muscle regeneration through perturbed recruitment and function of macrophages. <i>Journal of Applied Physiology</i> , 2012, 112, 1773-1782.	2.5	32
22	Soy Glycinin Contains a Functional Inhibitory Sequence against Muscle-Atrophy-Associated Ubiquitin Ligase Cbl-b. <i>International Journal of Endocrinology</i> , 2013, 2013, 1-11.	1.5	28
23	A Relative High Dose of Vitamin E Does Not Attenuate Unweighting-Induced Oxidative Stress and Ubiquitination in Rat Skeletal Muscle. <i>Journal of Physiological Anthropology and Applied Human Science</i> , 2002, 21, 257-263.	0.4	28
24	Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in Cbl-b deficient mice. <i>Muscle and Nerve</i> , 2011, 43, 223-229.	2.2	25
25	The effect of ice crystals formations on the flesh quality of frozen horse mackerel (<i>Trachurus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 25	2.5	25
26	Impaired Vitamin A-Mediated Mucosal IgA Response in IL-5 Receptor-Knockout Mice. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 546-549.	2.1	22
27	Effects of dietary soy protein on skeletal muscle volume and strength in humans with various physical activities. <i>Journal of Medical Investigation</i> , 2015, 62, 177-183.	0.5	22
28	Identification of a Redox-Modulatory Interaction Between Uncoupling Protein 3 and Thioredoxin 2 in the Mitochondrial Intermembrane Space. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2645-2661.	5.4	21
29	Anti-obesity effects of enzymatically-digested alginate oligomer in mice model fed a high-fat-diet. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2016, 7, 1-8.	2.7	21
30	Identification of mono-ubiquitinated LDH-A in skeletal muscle cells exposed to oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 799-806.	2.1	20
31	N-myristoylated ubiquitin ligase Cbl-b inhibitor prevents on glucocorticoid-induced atrophy in mouse skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , 2015, 570, 23-31.	3.0	20
32	Dietary supplementation with alkylresorcinols prevents muscle atrophy through a shift of energy supply. <i>Journal of Nutritional Biochemistry</i> , 2018, 61, 147-154.	4.2	20
33	Morin attenuates dexamethasone-mediated oxidative stress and atrophy in mouse C2C12 skeletal myotubes. <i>Archives of Biochemistry and Biophysics</i> , 2021, 704, 108873.	3.0	20
34	Dietary Supplementation with Isoflavones Prevents Muscle Wasting in Tumor-Bearing Mice. <i>Journal of Nutritional Science and Vitaminology</i> , 2016, 62, 178-184.	0.6	19
35	Beneficial effects of a low-protein diet on host resistance to <i>Paracoccidioides brasiliensis</i> in mice. <i>Nutrition</i> , 2009, 25, 954-963.	2.4	17
36	Mitochondrial respiratory uncoupling promotes keratinocyte differentiation and blocks skin carcinogenesis. <i>Oncogene</i> , 2012, 31, 4725-4731.	5.9	17

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37	The malignant progression effects of regorafenib in human colon cancer cells. <i>Journal of Medical Investigation</i> , 2015, 62, 195-198.	0.5	17
38	Morin suppresses cachexia-induced muscle wasting by binding to ribosomal protein S10 in carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 773-779.	2.1	17
39	Ubiquitin ligase Cbl-b and obesity-induced insulin resistance [Review]. <i>Endocrine Journal</i> , 2014, 61, 529-538.	1.6	16
40	Capric Acid Up-Regulates UCP3 Expression without PDK4 Induction in Mouse C2C12 Myotubes. <i>Journal of Nutritional Science and Vitaminology</i> , 2016, 62, 32-39.	0.6	16
41	Regorafenib induces adaptive resistance of colorectal cancer cells via inhibition of vascular endothelial growth factor receptor. <i>Journal of Medical Investigation</i> , 2017, 64, 262-265.	0.5	16
42	VEGF pathway-targeting drugs induce evasive adaptation by activation of neuropilin-1/cMet in colon cancer cells. <i>International Journal of Oncology</i> , 2018, 52, 1350-1362.	3.3	16
43	Astaxanthin Prevents Atrophy in Slow Muscle Fibers by Inhibiting Mitochondrial Reactive Oxygen Species via a Mitochondria-Mediated Apoptosis Pathway. <i>Nutrients</i> , 2021, 13, 379.	4.1	15
44	Awa (Tokushima) lactate-fermented tea as well as green tea enhance the effect of diet restriction on obesity in rats. <i>Journal of Medical Investigation</i> , 2009, 56, 42-48.	0.5	14
45	Refeeding with a high-protein diet after a 48h fast causes acute hepatocellular injury in mice. <i>British Journal of Nutrition</i> , 2012, 107, 1435-1444.	2.3	13
46	Effect of Dietary Oils on Lymphocyte Immunological Activity in Psychologically Stressed Mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 174-182.	1.3	12
47	Effects of Dimethyl Sulphoxide and Dexamethasone on mRNA Expression of Myogenesis- and Muscle Proteolytic System-related Genes in Mouse Myoblastic C2C12 Cells. <i>Journal of Biochemistry</i> , 2008, 144, 717-724.	1.7	12
48	A convenient and nondestructive method using bio-impedance analysis to determine fish freshness during ice storage. <i>Fisheries Science</i> , 2018, 84, 1099-1108.	1.6	12
49	Prevention of skeletal muscle atrophy in vitro using anti-ubiquitination oligopeptide carried by atelocollagen. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 873-880.	4.1	11
50	An Intracellular Fragment of Osteoactivin Formed by Ectodomain Shedding Translocated to the Nucleoplasm and Bound to RNA Binding Proteins. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2225-2229.	1.3	10
51	Therapeutic effects of an orally administered edible seaweed-derived polysaccharide preparation, ascophyllan HS, on a <i>Streptococcus pneumoniae</i> infection mouse model. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 1116-1122.	7.5	10
52	"Myo Lab": A JAXA Cell Biology Experiment in "Kibo (JEM)" of the International Space Station. <i>Uchu Seibutsu Kagaku</i> , 2009, 23, 189-193.	0.3	10
53	Changes in the pericellular connective tissue and breaking strength of the three types of muscles of the cultured carp <i>Cyprinus carpio</i> during storage in ice. <i>Fisheries Science</i> , 2014, 80, 1083-1088.	1.6	9
54	Involvement of Cbl-b-mediated macrophage inactivation in insulin resistance. <i>World Journal of Diabetes</i> , 2017, 8, 97.	3.5	9

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55	Cathepsin C Propeptide Interacts with Intestinal Alkaline Phosphatase and Heat Shock Cognate Protein 70 in Human Caco-2 Cells. <i>Journal of Physiological Sciences</i> , 2008, 58, 105-111.	2.1	8
56	A novel myogenic function residing in the 5' non-coding region of Insulin receptor substrate-1 (Irs-1) transcript. <i>BMC Cell Biology</i> , 2015, 16, 8.	3.0	8
57	UCP3 is associated with Hax-1 in mitochondria in the presence of calcium ion. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 108-113.	2.1	8
58	Short-term hypergravity does not affect protein-ubiquitination and proliferation in rat L6 myoblastic cells. <i>Uchu Seibutsu Kagaku</i> , 2005, 19, 3-7.	0.3	8
59	Effects of a High-Protein Diet on Host Resistance to <i>Paracoccidioides brasiliensis</i> in Mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 620-626.	1.3	7
60	Structural analysis of the TKB domain of ubiquitin ligase Cbl-b complexed with its small inhibitory peptide, Cblin. <i>Archives of Biochemistry and Biophysics</i> , 2016, 594, 1-7.	3.0	7
61	Suppressive effects of sulfated polysaccharide ascophyllan isolated from <i>Ascophyllum nodosum</i> on the production of NO and ROS in LPS-stimulated RAW264.7 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 882-889.	1.3	7
62	Antiangiogenic agent sunitinib induces epithelial to mesenchymal transition and accelerates motility of colorectal cancer cells. <i>Journal of Medical Investigation</i> , 2017, 64, 250-254.	0.5	6
63	Balenine, imidazole dipeptide, induces activation of superoxide dismutase in myotubes. <i>Fisheries Science</i> , 2021, 87, 403-409.	1.6	6
64	Effect of Dietary Oils on Host Resistance to Fungal Infection in Psychologically Stressed Mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1994-1998.	1.3	5
65	MuRF1 deficiency prevents age-related fat weight gain, possibly through accumulation of PDK4 in skeletal muscle mitochondria in older mice. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1026-1038.	2.3	5
66	A comparison of flesh quality of freeze-thawed mantle muscle of oval squid with dorsal ordinary muscle of horse mackerel. <i>Nippon Suisan Gakkaishi</i> , 2019, 85, 49-54.	0.1	5
67	Effects of single administration of Rokumi-gan (TJ-87) on serum amino acid concentration of 6 healthy Japanese male volunteers. <i>Journal of Medical Investigation</i> , 2007, 54, 91-98.	0.5	4
68	Preventive Effect of Isometric Contraction Exercise on Disuse Muscle Atrophy Using Tail Suspension Mice. <i>Journal of Physical Therapy Science</i> , 2008, 20, 39-44.	0.6	4
69	Chronic exposure of VEGF inhibitors promotes the malignant phenotype of colorectal cancer cells. <i>Journal of Medical Investigation</i> , 2015, 62, 75-79.	0.5	4
70	Relationship between the characteristics of rigor-mortis-related actomyosin and muscle fiber types in the ordinary muscle of various fishes. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 6042-6048.	3.5	4
71	Effect of blood deposition phenomenon on flesh quality of yellowtail (<i>Seriola quinqueradiata</i>) during storage. <i>Journal of Texture Studies</i> , 2019, 50, 325-331.	2.5	4
72	Ultra-high-purity iron is a novel and very compatible biomaterial. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 106, 103744.	3.1	4

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73	Effects of elevated carbon dioxide on contraction force and proteome composition of sea urchin tube feet. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2017, 21, 10-16.	1.0	3
74	Influence of the interposition of pink muscle fibers in the dorsal ordinary muscle on the postmortem hardness of meat in various fishes. <i>Journal of Texture Studies</i> , 2021, 52, 358-367.	2.5	3
75	Safety Evaluation and Physiological Function of Dietary Balenine Derived From Opah <i>Lampris guttatus</i> on Skeletal Muscle of Mice. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 2083-2089.	1.9	3
76	Hybrid Exercise Prevents Muscle Atrophy in Association with a Distinct Gene Expression Pattern. <i>Kurume Medical Journal</i> , 2010, 57, 101-108.	0.1	2
77	Application of Bioimpedance Analysis to Estimate the Condition of Yellowtail (<i>Seriola quinqueradiata</i>) Tj ETQq1 1 0.784314 rgBT /Overload	1.6	2
78	Effect of dietary fish oil on enhanced inflammation and disturbed lipophagy in white adipose tissue caused by a high fat diet. <i>Fisheries Science</i> , 2020, 86, 187-196.	1.6	2
79	Distinct effects of anterior pyriform cortex and the lateral hypothalamus lesions on protein intake in rats. <i>Journal of Medical Investigation</i> , 2007, 54, 255-260.	0.5	2
80	Uncoupling protein 3 attenuates generation of reactive oxygen species by interacting with thioredoxin 2 in the mitochondrial intermembrane space. <i>Arthritis Research and Therapy</i> , 2012, 14, .	3.5	1
81	The effect of blood deposition on the degradation of the connective tissue of the yellowtail <i>Seriola quinqueradiata</i> during storage. <i>Fisheries Science</i> , 2019, 85, 1099-1107.	1.6	1
82	A Skeletal Muscle-Derived Secretory Protein, Attractin, Upregulates UCP-2 Expression in Mouse 3T3-L1 Adipocytes. <i>Uchu Seibutsu Kagaku</i> , 2006, 20, 33-39.	0.3	1
83	Soy protein diet prevents hypermethioninemia caused by portacaval shunt in rats. <i>Journal of Medical Investigation</i> , 2006, 53, 255-263.	0.5	1
84	Balenine, Imidazole Dipeptide Promotes Skeletal Muscle Regeneration by Regulating Phagocytosis Properties of Immune Cells. <i>Marine Drugs</i> , 2022, 20, 313.	4.6	1
85	S16B4 Molecular mechanism underlying sensing of unloading in skeletal muscle cells(Biophysical) Tj ETQq1 1 0.784314 rgBT /Overload	0.1	0
86	4. Advanced molecular nutritional study based on functionality of food in USA. <i>Nippon Suisan Gakkaishi</i> , 2015, 81, 877-877.	0.1	0
87	Byssus production ability and degree of byssal gland development in the infaunal clam <i>Ruditapes philippinarum</i> . <i>Acta Zoologica</i> , 2020, 101, 392-403.	0.8	0
88	Distinct gene expression profiles in the femora of rats exposed to spaceflight, tail-suspension and denervation. <i>Uchu Seibutsu Kagaku</i> , 2006, 20, 80-91.	0.3	0
89	Molecular Nutritional Study on Prevention of Muscle Atrophy. <i>Nihon EiyÅ•ShokuryÅ•Gakkai Shi = Nippon EiyÅ•ShokuryÅ•Gakkaishi = Journal of Japanese Society of Nutrition and Food Science</i> , 2014, 67, 291-297.	0.2	0
90	Dietary Sodium Nitrite Causes Similar Modifications to Splenic Inflammatory Gene Expression as a High-Fat Diet. <i>Journal of Nutritional Science and Vitaminology</i> , 2021, 67, 404-416.	0.6	0