

Katsuya Hirasaka

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89 papers	1,746 citations	23 h-index	39 g-index
91 ext. papers	1,993 ext. citations	2.9 avg, IF	3.8 L-index

#	Paper	IF	Citations
89	Skeletal muscle gene expression in space-flown rats. <i>FASEB Journal</i> , 2004 , 18, 522-4	0.9	164
88	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, 4798-811	4.8	141
87	Glucose infusion suppresses surgery-induced muscle protein breakdown by inhibiting ubiquitin-proteasome pathway in rats. <i>Anesthesiology</i> , 2009 , 110, 81-8	4.3	116
86	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,	5.7	78
85	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, C697-707	5.4	77
84	Ubiquitin ligase gene expression in healthy volunteers with 20-day bedrest. <i>Muscle and Nerve</i> , 2006 , 34, 463-9	3.4	70
83	Deficiency of Cbl-b gene enhances infiltration and activation of macrophages in adipose tissue and causes peripheral insulin resistance in mice. <i>Diabetes</i> , 2007 , 56, 2511-22	0.9	58
82	Osteoactivin fragments produced by ectodomain shedding induce MMP-3 expression via ERK pathway in mouse NIH-3T3 fibroblasts. <i>FEBS Letters</i> , 2007 , 581, 5743-50	3.8	56
81	Distinct expression of mast cell tryptase and protease activated receptor-2 in synovia of rheumatoid arthritis and osteoarthritis. <i>Clinical Rheumatology</i> , 2007 , 26, 1284-92	3.9	50
80	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	2.4	50
79	Cysteine supplementation prevents unweighting-induced ubiquitination in association with redox regulation in rat skeletal muscle. <i>Biological Chemistry</i> , 2002 , 383, 715-21	4.5	44
78	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, 722-34	6.3	40
77	Clinorotation prevents differentiation of rat myoblastic L6 cells in association with reduced NF-kappa B signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005 , 1743, 130-40	4.9	40
76	Polyphenols prevent clinorotation-induced expression of atrogenes in mouse C2C12 skeletal myotubes. <i>Journal of Medical Investigation</i> , 2009 , 56, 26-32	1.2	37
75	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	6.3	36
74	Overexpression of osteoactivin protects skeletal muscle from severe degeneration caused by long-term denervation in mice. <i>Journal of Medical Investigation</i> , 2007 , 54, 248-54	1.2	33
73	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	5.4	31

72	Cbl-b is a critical regulator of macrophage activation associated with obesity-induced insulin resistance in mice. <i>Diabetes</i> , 2013 , 62, 1957-69	0.9	31
71	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, 317-24	1.1	31
70	Peroxidized cholesterol-induced matrix metalloproteinase-9 activation and its suppression by dietary beta-carotene in photoaging of hairless mouse skin. <i>Journal of Nutritional Biochemistry</i> , 2009 , 20, 389-98	6.3	29
69	Unloading stress disturbs muscle regeneration through perturbed recruitment and function of macrophages. <i>Journal of Applied Physiology</i> , 2012 , 112, 1773-82	3.7	27
68	Effects of dietary fish oil on lipid peroxidation and serum triacylglycerol levels in psychologically stressed mice. <i>Nutrition</i> , 2008 , 24, 67-75	4.8	27
67	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, 257-63		24
66	Soy Glycinin Contains a Functional Inhibitory Sequence against Muscle-Atrophy-Associated Ubiquitin Ligase Cbl-b. <i>International Journal of Endocrinology</i> , 2013 , 2013, 907565	2.7	20
65	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, 2645-61	8.4	19
64	Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in Cbl-b-deficient mice. <i>Muscle and Nerve</i> , 2011 , 43, 223-9	3.4	18
63	Impaired vitamin A-mediated mucosal IgA response in IL-5 receptor-knockout mice. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 285, 546-9	3.4	17
62	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	4.1	16
61	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	3.4	16
60	Beneficial effects of a low-protein diet on host resistance to <i>Paracoccidioides brasiliensis</i> in mice. <i>Nutrition</i> , 2009 , 25, 954-63	4.8	15
59	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	3.4	15
58	Ubiquitin ligase Cbl-b and obesity-induced insulin resistance. <i>Endocrine Journal</i> , 2014 , 61, 529-38	2.9	14
57	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, 177-83	1.2	14
56	The malignant progression effects of regorafenib in human colon cancer cells. <i>Journal of Medical Investigation</i> , 2015 , 62, 195-8	1.2	14
55	Mitochondrial respiratory uncoupling promotes keratinocyte differentiation and blocks skin carcinogenesis. <i>Oncogene</i> , 2012 , 31, 4725-31	9.2	14

54	The effect of ice crystals formations on the flesh quality of frozen horse mackerel (<i>Trachurus japonicus</i>). <i>Journal of Texture Studies</i> , 2018 , 49, 485-491	3.6	14
53	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	1.2	13
52	Dietary Supplementation with Isoflavones Prevents Muscle Wasting in Tumor-Bearing Mice. <i>Journal of Nutritional Science and Vitaminology</i> , 2016 , 62, 178-84	1.1	13
51	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, 42-8	1.2	12
50	Effects of dimethyl sulfoxide 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, 717-24	3.1	11
49	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	4.4	10
48	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, 873-80	4.9	10
47	Refeeding with a high-protein diet after a 48 h fast causes acute hepatocellular injury in mice. <i>British Journal of Nutrition</i> , 2012 , 107, 1435-44	3.6	10
46	Effect of dietary oils on lymphocyte immunological activity in psychologically stressed mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 174-82	2.1	10
45	"Myo Lab": A JAXA Cell Biology Experiment in "Kibo (JEM)" of the International Space Station. <i>Uchu Seibutsu Kagaku</i> , 2009 , 23, 189-193	1	10
44	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	3.4	9
43	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, 105-11	2.3	8
42	Short-term hypergravity does not affect protein-ubiquitination and proliferation in rat L6 myoblastic cells. <i>Uchu Seibutsu Kagaku</i> , 2005 , 19, 3-7	1	8
41	Dietary supplementation with alkylresorcinols prevents muscle atrophy through a shift of energy supply. <i>Journal of Nutritional Biochemistry</i> , 2018 , 61, 147-154	6.3	8
40	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		7
39	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	1.9	7
38	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, 2225-9	2.1	7
37	Involvement of Cbl-b-mediated macrophage inactivation in insulin resistance. <i>World Journal of Diabetes</i> , 2017 , 8, 97-103	4.7	7

36	A convenient and nondestructive method using bio-impedance analysis to determine fish freshness during ice storage. <i>Fisheries Science</i> , 2018 , 84, 1099-1108	1.9	7
35	UCP3 is associated with Hax-1 in mitochondria in the presence of calcium ion. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 472, 108-13	3.4	6
34	Effects of a high-protein diet on host resistance to <i>Paracoccidioides brasiliensis</i> in mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 620-6	2.1	6
33	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	7.9	6
32	Morin attenuates dexamethasone-mediated oxidative stress and atrophy in mouse C2C12 skeletal myotubes. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 704, 108873	4.1	6
31	Capric Acid Up-Regulates UCP3 Expression without PDK4 Induction in Mouse C2C12 Myotubes. <i>Journal of Nutritional Science and Vitaminology</i> , 2016 , 62, 32-9	1.1	6
30	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	4.1	5
29	Balenine, imidazole dipeptide, induces activation of superoxide dismutase in myotubes. <i>Fisheries Science</i> , 2021 , 87, 403-409	1.9	5
28	Chronic exposure of VEGF inhibitors promotes the malignant phenotype of colorectal cancer cells. <i>Journal of Medical Investigation</i> , 2015 , 62, 75-9	1.2	4
27	Effect of dietary oils on host resistance to fungal infection in psychologically stressed mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 1994-8	2.1	4
26	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, 91-8	1.2	4
25	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	0.2	4
24	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	2	3
23	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	4.3	3
22	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	1.2	3
21	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	1	3
20	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	3.6	2
19	"Hybrid exercise" prevents muscle atrophy in association with a distinct gene expression pattern. <i>Kurume Medical Journal</i> , 2011 , 57, 101-8	0.9	2

18	Distinct effects of anterior pyriform cortex and the lateral hypothalamus lesions on protein intake in rats. <i>Journal of Medical Investigation</i> , 2007 , 54, 255-60	1.2	2
17	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	2.1	2
16	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	1.9	2
15	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	2.1	2
14	Ultra-high-purity iron is a novel and very compatible biomaterial. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 106, 103744	4.1	1
13	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	1	1
12	Astaxanthin Prevents Atrophy in Slow Muscle Fibers by Inhibiting Mitochondrial Reactive Oxygen Species via a Mitochondria-Mediated Apoptosis Pathway. <i>Nutrients</i> , 2021 , 13,	6.7	1
11	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	1.9	0
10	Application of Bio-Impedance Analysis to Estimate the Condition of Yellowtail (<i>Seriola quinqueradiata</i>) Muscle at Different Storage Temperatures. <i>Bioelectromagnetics</i> , 2019 , 40, 488-497	1.6	0
9	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	3.6	0
8	Balenine, Imidazole Dipeptide Promotes Skeletal Muscle Regeneration by Regulating Phagocytosis Properties of Immune Cells. <i>Marine Drugs</i> , 2022 , 20, 313	6	0
7	4. Advanced molecular nutritional study based on functionality of food in USA. <i>Nippon Suisan Gakkaishi</i> , 2015 , 81, 877-877	0.2	
6	S16B4 Molecular mechanism underlying sensing of unloading in skeletal muscle cells(Biophysical Basis of Sensing and Response to the Gravity Field). <i>Seibutsu Butsuri</i> , 2007 , 47, S23	0	
5	Soy protein diet prevents hypermethioninemia caused by portacaval shunt in rats. <i>Journal of Medical Investigation</i> , 2006 , 53, 255-63	1.2	
4	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	1	
3	Molecular Nutritional Study on Prevention of Muscle Atrophy. <i>Nihon Eiyōshokuryō Gakkai Shi = Nippon Eiyōshokuryō Gakkaishi = Journal of Japanese Society of Nutrition and Food Science</i> , 2014 , 67, 291-297	0.2	
2	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	
1	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	1.1	

