

# Katsuya Hirasaka

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 89 | Balenine, Imidazole Dipeptide Promotes Skeletal Muscle Regeneration by Regulating Phagocytosis Properties of Immune Cells. <i>Marine Drugs</i> , <b>2022</b> , 20, 313  | 6   | 0         |
| 88 | 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> , <b>2021</b> , 85, 882-889                   | 2.1 | 2         |
| 87 | Balenine, imidazole dipeptide, induces activation of superoxide dismutase in myotubes. <i>Fisheries Science</i> , <b>2021</b> , 87, 403-409   | 1.9 | 5         |
| 86 | 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> , <b>2021</b> , 27, 2083-2089                                | 2.1 | 2         |
| 85 | Morin attenuates dexamethasone-mediated oxidative stress and atrophy in mouse C2C12 skeletal myotubes. <i>Archives of Biochemistry and Biophysics</i> , <b>2021</b> , 704, 108873   | 4.1 | 6         |
| 84 | Astaxanthin Prevents Atrophy in Slow Muscle Fibers by Inhibiting Mitochondrial Reactive Oxygen Species via a Mitochondria-Mediated Apoptosis Pathway. <i>Nutrients</i> , <b>2021</b> , 13,  | 6.7 | 1         |
| 83 | 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> , <b>2021</b> , 52, 358-367  | 3.6 | 0         |
| 82 | Dietary Sodium Nitrite Causes Similar Modifications to Splenic Inflammatory Gene Expression as a High-Fat Diet.. <i>Journal of Nutritional Science and Vitaminology</i> , <b>2021</b> , 67, 404-416   | 1.1 |           |
| 81 | Ultra-high-purity iron is a novel and very compatible biomaterial. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 106, 103744  | 4.1 | 1         |
| 80 | 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> , <b>2020</b> , 86, 187-196   | 1.9 | 2         |
| 79 | 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> , <b>2020</b> , 154, 1116-1122 | 7.9 | 6         |
| 78 | Byssus production ability and degree of byssal-gland development in the infaunal clam <i>Ruditapes philippinarum</i> . <i>Acta Zoologica</i> , <b>2020</b> , 101, 392-403   | 0.8 |           |
| 77 | 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> , <b>2019</b> , 85, 1099-1107   | 1.9 | 0         |
| 76 | 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> , <b>2019</b> , 99, 6042-6048                                      | 4.3 | 3         |
| 75 | Effect of blood deposition phenomenon on flesh quality of yellowtail ( <i>Seriola quinqueradiata</i> ) during storage. <i>Journal of Texture Studies</i> , <b>2019</b> , 50, 325-331  | 3.6 | 2         |
| 74 | Application of Bio-Impedance Analysis to Estimate the Condition of Yellowtail ( <i>Seriola quinqueradiata</i> ) Muscle at Different Storage Temperatures. <i>Bioelectromagnetics</i> , <b>2019</b> , 40, 488-497  | 1.6 | 0         |
| 73 | 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> , <b>2019</b> , 85, 49-54  | 0.2 | 4         |

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|----|---|-----|----|
| 72 | VEGF pathway-targeting drugs induce evasive adaptation by activation of neuropilin-1/cMet in colon cancer cells. <i>International Journal of Oncology</i> , <b>2018</b> , 52, 1350-1362                                   | 4.4 | 10 |
| 71 | 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> , <b>2018</b> , 314, C721-C731 | 5.4 | 31 |
| 70 | The effect of ice crystals formations on the flesh quality of frozen horse mackerel ( <i>Trachurus japonicus</i> ). <i>Journal of Texture Studies</i> , <b>2018</b> , 49, 485-491   | 3.6 | 14 |
| 69 | Morin suppresses cachexia-induced muscle wasting by binding to ribosomal protein S10 in carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 506, 773-779                          | 3.4 | 9  |
| 68 | Dietary supplementation with alkylresorcinols prevents muscle atrophy through a shift of energy supply. <i>Journal of Nutritional Biochemistry</i> , <b>2018</b> , 61, 147-154  | 6.3 | 8  |
| 67 | A convenient and nondestructive method using bio-impedance analysis to determine fish freshness during ice storage. <i>Fisheries Science</i> , <b>2018</b> , 84, 1099-1108  | 1.9 | 7  |
| 66 | 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> , <b>2017</b> , 21, 10-16        | 2   | 3  |
| 65 | Regorafenib induces adaptive resistance of colorectal cancer cells via inhibition of vascular endothelial growth factor receptor. <i>Journal of Medical Investigation</i> , <b>2017</b> , 64, 262-265                     | 1.2 | 13 |
| 64 | Antiangiogenic agent sunitinib induces epithelial to mesenchymal transition and accelerates motility of colorectal cancer cells. <i>Journal of Medical Investigation</i> , <b>2017</b> , 64, 250-254                      | 1.2 | 3  |
| 63 | Involvement of Cbl-b-mediated macrophage inactivation in insulin resistance. <i>World Journal of Diabetes</i> , <b>2017</b> , 8, 97-103   | 4.7 | 7  |
| 62 | Dietary Supplementation with Isoflavones Prevents Muscle Wasting in Tumor-Bearing Mice. <i>Journal of Nutritional Science and Vitaminology</i> , <b>2016</b> , 62, 178-84   | 1.1 | 13 |
| 61 | 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> , <b>2016</b> , 594, 1-7                               | 4.1 | 5  |
| 60 | UCP3 is associated with Hax-1 in mitochondria in the presence of calcium ion. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 472, 108-13  | 3.4 | 6  |
| 59 | Capric Acid Up-Regulates UCP3 Expression without PDK4 Induction in Mouse C2C12 Myotubes. <i>Journal of Nutritional Science and Vitaminology</i> , <b>2016</b> , 62, 32-9  | 1.1 | 6  |
| 58 | Anti-obesity effects of enzymatically-digested alginate oligomer in mice model fed a high-fat-diet. <i>Bioactive Carbohydrates and Dietary Fibre</i> , <b>2016</b> , 7, 1-8   | 3.4 | 16 |
| 57 | Preventive effect of dietary quercetin on disuse muscle atrophy by targeting mitochondria in denervated mice. <i>Journal of Nutritional Biochemistry</i> , <b>2016</b> , 31, 67-76  | 6.3 | 36 |
| 56 | N-myristoylated ubiquitin ligase Cbl-b inhibitor prevents on glucocorticoid-induced atrophy in mouse skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 570, 23-31                           | 4.1 | 16 |
| 55 | A novel myogenic function residing in the 5'non-coding region of Insulin receptor substrate-1 (Irs-1) transcript. <i>BMC Cell Biology</i> , <b>2015</b> , 16, 8   |     | 7  |

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|----|---|-----|----|
| 54 | 4. Advanced molecular nutritional study based on functionality of food in USA. <i>Nippon Suisan Gakkaishi</i> , <b>2015</b> , 81, 877-877   | 0.2 |    |
| 53 | Effects of dietary soy protein on skeletal muscle volume and strength in humans with various physical activities. <i>Journal of Medical Investigation</i> , <b>2015</b> , 62, 177-83  | 1.2 | 14 |
| 52 | The malignant progression effects of regorafenib in human colon cancer cells. <i>Journal of Medical Investigation</i> , <b>2015</b> , 62, 195-8   | 1.2 | 14 |
| 51 | Chronic exposure of VEGF inhibitors promotes the malignant phenotype of colorectal cancer cells. <i>Journal of Medical Investigation</i> , <b>2015</b> , 62, 75-9   | 1.2 | 4  |
| 50 | Prevention of skeletal muscle atrophy in vitro using anti-ubiquitination oligopeptide carried by atelocollagen. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 873-80                 | 4.9 | 10 |
| 49 | Ubiquitin ligase Cbl-b and obesity-induced insulin resistance. <i>Endocrine Journal</i> , <b>2014</b> , 61, 529-38  | 2.9 | 14 |
| 48 | 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> , <b>2014</b> , 80, 1083-1088 | 1.9 | 7  |
| 47 | 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> , <b>2014</b> , 67, 291-297   | 0.2 |    |
| 46 | Soy Glycinin Contains a Functional Inhibitory Sequence against Muscle-Atrophy-Associated Ubiquitin Ligase Cbl-b. <i>International Journal of Endocrinology</i> , <b>2013</b> , 2013, 907565                                 | 2.7 | 20 |
| 45 | Cbl-b is a critical regulator of macrophage activation associated with obesity-induced insulin resistance in mice. <i>Diabetes</i> , <b>2013</b> , 62, 1957-69  | 0.9 | 31 |
| 44 | Isoflavones derived from soy beans prevent MuRF1-mediated muscle atrophy in C2C12 myotubes through SIRT1 activation. <i>Journal of Nutritional Science and Vitaminology</i> , <b>2013</b> , 59, 317-24                      | 1.1 | 31 |
| 43 | 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> , <b>2012</b> , 76, 2225-9     | 2.1 | 7  |
| 42 | 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> , <b>2012</b> , 14,                 | 5.7 | 78 |
| 41 | Mitochondrial respiratory uncoupling promotes keratinocyte differentiation and blocks skin carcinogenesis. <i>Oncogene</i> , <b>2012</b> , 31, 4725-31  | 9.2 | 14 |
| 40 | Unloading stress disturbs muscle regeneration through perturbed recruitment and function of macrophages. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1773-82  | 3.7 | 27 |
| 39 | Refeeding with a high-protein diet after a 48 h fast causes acute hepatocellular injury in mice. <i>British Journal of Nutrition</i> , <b>2012</b> , 107, 1435-44   | 3.6 | 10 |
| 38 | Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in Cbl-b-deficient mice. <i>Muscle and Nerve</i> , <b>2011</b> , 43, 223-9   | 3.4 | 18 |
| 37 | "Hybrid exercise" prevents muscle atrophy in association with a distinct gene expression pattern. <i>Kurume Medical Journal</i> , <b>2011</b> , 57, 101-8   | 0.9 | 2  |

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|----|---|-----|-----|
| 36 | Identification of a redox-modulatory interaction between uncoupling protein 3 and thioredoxin 2 in the mitochondrial intermembrane space. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 15, 2645-61   | 8.4 | 19  |
| 35 | Effects of a high-protein diet on host resistance to <i>Paracoccidioides brasiliensis</i> in mice. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 620-6  | 2.1 | 6   |
| 34 | Polyphenols prevent clinorotation-induced expression of atrogenes in mouse C2C12 skeletal myotubes. <i>Journal of Medical Investigation</i> , <b>2009</b> , 56, 26-32   | 1.2 | 37  |
| 33 | 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> , <b>2009</b> , 56, 42-8  | 1.2 | 12  |
| 32 | 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> , <b>2009</b> , 29, 4798-811   | 4.8 | 141 |
| 31 | Beneficial effects of a low-protein diet on host resistance to <i>Paracoccidioides brasiliensis</i> in mice. <i>Nutrition</i> , <b>2009</b> , 25, 954-63  | 4.8 | 15  |
| 30 | 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> , <b>2009</b> , 20, 389-98  | 6.3 | 29  |
| 29 | Effect of dietary oils on host resistance to fungal infection in psychologically stressed mice. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 1994-8  | 2.1 | 4   |
| 28 | "Myo Lab": A JAXA Cell Biology Experiment in "Kibo (JEM)" of the International Space Station. <i>Uchu Seibutsu Kagaku</i> , <b>2009</b> , 23, 189-193   | 1   | 10  |
| 27 | Glucose infusion suppresses surgery-induced muscle protein breakdown by inhibiting ubiquitin-proteasome pathway in rats. <i>Anesthesiology</i> , <b>2009</b> , 110, 81-8  | 4.3 | 116 |
| 26 | Effects of dietary fish oil on lipid peroxidation and serum triacylglycerol levels in psychologically stressed mice. <i>Nutrition</i> , <b>2008</b> , 24, 67-75   | 4.8 | 27  |
| 25 | Preventive Effect of Isometric Contraction Exercise on Disuse Muscle Atrophy Using Tail Suspension Mice. <i>Journal of Physical Therapy Science</i> , <b>2008</b> , 20, 39-44   | 1   | 3   |
| 24 | 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> , <b>2008</b> , 58, 105-11  | 2.3 | 8   |
| 23 | 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> , <b>2008</b> , 129, 489-501 | 2.4 | 50  |
| 22 | 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> , <b>2008</b> , 144, 717-24  | 3.1 | 11  |
| 21 | Effect of dietary oils on lymphocyte immunological activity in psychologically stressed mice. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2007</b> , 71, 174-82  | 2.1 | 10  |
| 20 | 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> , <b>2007</b> , 54, 91-8  | 1.2 | 4   |
| 19 | Distinct expression of mast cell tryptase and protease activated receptor-2 in synovia of rheumatoid arthritis and osteoarthritis. <i>Clinical Rheumatology</i> , <b>2007</b> , 26, 1284-92   | 3.9 | 50  |

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|----|--|-----|-----|
| 18 | Deficiency of Cbl-b gene enhances infiltration and activation of macrophages in adipose tissue and causes peripheral insulin resistance in mice. <i>Diabetes</i> , <b>2007</b> , 56, 2511-22   | 0.9 | 58  |
| 17 | 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> , <b>2007</b> , 47, S23                                    | 0   |     |
| 16 | Overexpression of osteoactivin protects skeletal muscle from severe degeneration caused by long-term denervation in mice. <i>Journal of Medical Investigation</i> , <b>2007</b> , 54, 248-54   | 1.2 | 33  |
| 15 | Osteoactivin fragments produced by ectodomain shedding induce MMP-3 expression via ERK pathway in mouse NIH-3T3 fibroblasts. <i>FEBS Letters</i> , <b>2007</b> , 581, 5743-50  | 3.8 | 56  |
| 14 | Distinct effects of anterior pyriform cortex and the lateral hypothalamus lesions on protein intake in rats. <i>Journal of Medical Investigation</i> , <b>2007</b> , 54, 255-60  | 1.2 | 2   |
| 13 | Ubiquitin ligase gene expression in healthy volunteers with 20-day bedrest. <i>Muscle and Nerve</i> , <b>2006</b> , 34, 463-9  | 3.4 | 70  |
| 12 | 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> , <b>2006</b> , 21, 722-34                                   | 6.3 | 40  |
| 11 | A Skeletal Muscle-Derived Secretory Protein, Attractin, Upregulates UCP-2 Expression in Mouse 3T3-L1 Adipocytes. <i>Uchu Seibutsu Kagaku</i> , <b>2006</b> , 20, 33-39   | 1   | 1   |
| 10 | Soy protein diet prevents hypermethioninemia caused by portacaval shunt in rats. <i>Journal of Medical Investigation</i> , <b>2006</b> , 53, 255-63  | 1.2 |     |
| 9  | Distinct gene expression profiles in the femora of rats exposed to spaceflight, tail-suspension and denervation. <i>Uchu Seibutsu Kagaku</i> , <b>2006</b> , 20, 80-91   | 1   |     |
| 8  | Identification of mono-ubiquitinated LDH-A in skeletal muscle cells exposed to oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 336, 799-806   | 3.4 | 15  |
| 7  | 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> , <b>2005</b> , 1743, 130-40                        | 4.9 | 40  |
| 6  | 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> , <b>2005</b> , 289, C697-707                       | 5.4 | 77  |
| 5  | Short-term hypergravity does not affect protein-ubiquitination and proliferation in rat L6 myoblastic cells. <i>Uchu Seibutsu Kagaku</i> , <b>2005</b> , 19, 3-7   | 1   | 8   |
| 4  | Skeletal muscle gene expression in space-flown rats. <i>FASEB Journal</i> , <b>2004</b> , 18, 522-4  | 0.9 | 164 |
| 3  | Cysteine supplementation prevents unweighting-induced ubiquitination in association with redox regulation in rat skeletal muscle. <i>Biological Chemistry</i> , <b>2002</b> , 383, 715-21  | 4.5 | 44  |
| 2  | 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> , <b>2002</b> , 21, 257-63 |     | 24  |
| 1  | Impaired vitamin A-mediated mucosal IgA response in IL-5 receptor-knockout mice. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 285, 546-9   | 3.4 | 17  |

