

# Takayuki Akimoto

## List of Publications by Year in descending order

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91  
papers

4,385  
citations

159585

30  
h-index

106344

65  
g-index

92  
all docs

92  
docs citations

92  
times ranked

6665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exercise Stimulates Pgc-1 $\beta$ Transcription in Skeletal Muscle through Activation of the p38 MAPK Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 19587-19593.	3.4	575
2	Mesenchymalâ€œstemâ€œcellâ€œderived exosomes accelerate skeletal muscle regeneration. <i>FEBS Letters</i> , 2015, 589, 1257-1265.	2.8	420
3	Peroxisome Proliferator-activated Receptor- $\beta$ Co-activator 1 $\beta$ -mediated Metabolic Remodeling of Skeletal Myocytes Mimics Exercise Training and Reverses Lipid-induced Mitochondrial Inefficiency. <i>Journal of Biological Chemistry</i> , 2005, 280, 33588-33598.	3.4	416
4	The <i>Mohawk</i> homeobox gene is a critical regulator of tendon differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10538-10542.	7.1	379
5	Regulation of miRNAs in human skeletal muscle following acute endurance exercise and shortâ€œterm endurance training. <i>Journal of Physiology</i> , 2013, 591, 4637-4653.	2.9	207
6	Disruption of skeletal muscle mitochondrial network genes and miRNAs in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2013, 49, 107-117.	4.4	194
7	Translational Suppression of Atrophic Regulators by MicroRNA-23a Integrates Resistance to Skeletal Muscle Atrophy. <i>Journal of Biological Chemistry</i> , 2011, 286, 38456-38465.	3.4	165
8	Skeletal muscle adaptation in response to voluntary running in Ca <sup>2+</sup> /calmodulin-dependent protein kinase IV-deficient mice. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1311-C1319.	4.6	109
9	Real-time imaging of peroxisome proliferator-activated receptor- $\beta$ coactivator-1 $\beta$ promoter activity in skeletal muscles of living mice. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C790-C796.	4.6	108
10	Profiling of Circulating MicroRNAs after a Bout of Acute Resistance Exercise in Humans. <i>PLoS ONE</i> , 2013, 8, e70823.	2.5	102
11	MRF4 negatively regulates adult skeletal muscle growth by repressing MEF2 activity. <i>Nature Communications</i> , 2016, 7, 12397.	12.8	88
12	Effects of systemic hypoxia on human muscular adaptations to resistance exercise training. <i>Physiological Reports</i> , 2014, 2, e12033.	1.7	85
13	Effects of Acute Hypoxia on Metabolic and Hormonal Responses to Resistance Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1279-1285.	0.4	81
14	Acupuncture and Responses of Immunologic and Endocrine Markers during Competition. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1296-1302.	0.4	69
15	Mechanical stretch inhibits myoblast-to-adipocyte differentiation through Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 381-385.	2.1	68
16	Acute exercise activates local bioactive androgen metabolism in skeletal muscle. <i>Steroids</i> , 2010, 75, 219-223.	1.8	68
17	Molecular Mechanisms of Skeletal Muscle Hypertrophy. <i>Journal of Neuromuscular Diseases</i> , 2021, 8, 169-183.	2.6	64
18	Reducing exercise-induced muscular injury in <i>kendo</i> athletes with supplementation of coenzyme Q <sub>10</sub> . <i>British Journal of Nutrition</i> , 2008, 100, 903-909.	2.3	63

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19	MicroRNA expression profiling in skeletal muscle reveals different regulatory patterns in high and low responders to resistance training. <i>Physiological Genomics</i> , 2016, 48, 320-324.	2.3	61
20	Resident stem cells are not required for exercise-induced fiber-type switching and angiogenesis but are necessary for activity-dependent muscle growth. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1461-C1468.	4.6	57
21	Functional interaction of regulatory factors with the Pgc-1 promoter in response to exercise by in vivo imaging. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C288-C292.	4.6	52
22	Endurance Exercise Training Enhances Local Sex Steroidogenesis in Skeletal Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 2072-2080.	0.4	48
23	Effects of Cryotherapy after Contusion Using Real-Time Intravital Microscopy. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1093-1098.	0.4	46
24	Detection of titin fragments in urine in response to exercise-induced muscle damage. <i>PLoS ONE</i> , 2017, 12, e0181623.	2.5	42
25	Effect of Free-Living Daily Physical Activity on Salivary Secretory IgA in Elderly. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 593-598.	0.4	38
26	Transcriptional profiling in mouse skeletal muscle following a single bout of voluntary running: evidence of increased cell proliferation. <i>Journal of Applied Physiology</i> , 2005, 99, 2406-2415.	2.5	37
27	Deletion of the Protein Kinase A/Protein Kinase G Target SMTNL1 Promotes an Exercise-adapted Phenotype in Vascular Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2008, 283, 11850-11859.	3.4	37
28	Role of damage and management in muscle hypertrophy: Different behaviors of muscle stem cells in regeneration and hypertrophy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118742.	4.1	37
29	Increased plasma concentrations of intercellular adhesion molecule-1 after strenuous exercise associated with muscle damage. <i>European Journal of Applied Physiology</i> , 2002, 86, 185-190.	2.5	34
30	Acupuncture ameliorated skeletal muscle atrophy induced by hindlimb suspension in mice. <i>Biochemical and Biophysical Research Communications</i> , 2011, 410, 434-439.	2.1	33
31	Mechanical stretch is a down-regulatory signal for differentiation of C2C12 myogenic cells. <i>Materials Science and Engineering C</i> , 2001, 17, 75-78.	7.3	31
32	Resting serum dehydroepiandrosterone sulfate level increases after 8-week resistance training among young females. <i>European Journal of Applied Physiology</i> , 2003, 90, 575-580.	2.5	29
33	Moderate Running and Plyometric Training During Off-Season Did Not Show a Significant Difference on Soccer-Related High-Intensity Performances Compared with No-Training Controls. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, 3392-3397.	2.1	28
34	Cyclic mechanical strain maintains Nanog expression through PI3K/Akt signaling in mouse embryonic stem cells. <i>Experimental Cell Research</i> , 2012, 318, 1726-1732.	2.6	27
35	Effects of exercise, age and gender on salivary secretory immunoglobulin A in elderly individuals. <i>Exercise Immunology Review</i> , 2007, 13, 55-66.	0.4	25
36	Transcriptional Control of the Pgc-1 Gene in Skeletal Muscle In Vivo. <i>Exercise and Sport Sciences Reviews</i> , 2007, 35, 97-101.	3.0	24

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37	The Effect of Different Amounts of Calcium Intake on Bone Metabolism and Arterial Calcification in Ovariectomized Rats. <i>Journal of Nutritional Science and Vitaminology</i> , 2013, 59, 29-36.	0.6	24
38	Influences of Weight Loss on Monocytes and T-Cell Subpopulations in Male Judo Athletes. <i>Journal of Strength and Conditioning Research</i> , 2011, 25, 1943-1950.	2.1	23
39	Role of endothelial microRNA-23 clusters in angiogenesis in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H838-H846.	3.2	23
40	Eccentric muscle contractions induce greater oxidative stress than concentric contractions in skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007, 32, 273-281.	1.9	22
41	Heat Stress Modulates Both Anabolic and Catabolic Signaling Pathways Preventing Dexamethasone-Induced Muscle Atrophy In Vitro. <i>Journal of Cellular Physiology</i> , 2017, 232, 650-664.	4.1	22
42	Effect of brief maximal exercise on circulating levels of interleukin-12. <i>European Journal of Applied Physiology</i> , 2000, 81, 510-512.	2.5	21
43	MicroRNA-23a has minimal effect on endurance exercise-induced adaptation of mouse skeletal muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 389-398.	2.8	18
44	Antiprothrombin autoantibodies in severe preeclampsia and abortion. <i>American Journal of Medicine</i> , 2001, 110, 188-191.	1.5	16
45	Influence of Food Restriction Combined with Voluntary Running on Bone Morphology and Strength in Male Rats. <i>Calcified Tissue International</i> , 2013, 93, 540-548.	3.1	16
46	New mouse model of skeletal muscle atrophy using spiral wire immobilization. <i>Muscle and Nerve</i> , 2016, 54, 788-791.	2.2	16
47	Loss of microRNA-23a/24 clusters in skeletal muscle is not influential in skeletal muscle development and exercise-induced muscle adaptation. <i>Scientific Reports</i> , 2019, 9, 1092.	3.3	16
48	Skeletal muscle adaptation in response to mechanical stress in p130cas <sup>-/-</sup> mice. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C541-C547.	4.6	14
49	Salivary Secretory Immunoglobulin A Response of Elite Speed Skaters During a Competition Period. <i>Journal of Strength and Conditioning Research</i> , 2010, 24, 2249-2254.	2.1	13
50	Conditional Deletion of Dicer in Adult Mice Impairs Skeletal Muscle Regeneration. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5686.	4.1	13
51	An inducible knockout of Dicer in adult mice does not affect endurance exercise-induced muscle adaptation. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C285-C292.	4.6	13
52	Effects of systemic hypoxia on human muscular adaptations to resistance exercise training. <i>Physiological Reports</i> , 2015, 3, e12267.	1.7	12
53	ALTERATION OF LOCAL IMMUNITY IN THE ORAL CAVITY AFTER ENDURANCE RUNNING. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 1998, 47, 53-61.	0.0	11
54	The Effects of Walking Exercise Training on Immune Response in Elderly Subjects. <i>International Journal of Sport and Health Science</i> , 2006, 4, 508-514.	0.2	11

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55	Effects of Cold Environment Exposure and Cold Acclimatization on Exercise-Induced Salivary Cortisol Response. <i>Wilderness and Environmental Medicine</i> , 2009, 20, 239-243.	0.9	11
56	Effects of Exercise Training on Growth and Differentiation Factor 11 Expression in Aged Mice. <i>Frontiers in Physiology</i> , 2019, 10, 970.	2.8	9
57	Effect of Acupuncture on Salivary Immunoglobulin a after a Bout of Intense Exercise. <i>Acupuncture in Medicine</i> , 2010, 28, 28-32.	1.0	8
58	Control of cell differentiation by mechanical stress. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2013, 2, 49-62.	0.3	8
59	Stress responsive miR-23a attenuates skeletal muscle atrophy by targeting MAFbx /atrogen-1. <i>Nature Precedings</i> , 2008, , .	0.1	7
60	Food Restriction Causes Low Bone Strength and Microarchitectural Deterioration in Exercised Growing Male Rats. <i>Journal of Nutritional Science and Vitaminology</i> , 2014, 60, 35-42.	0.6	7
61	The Impact of Different Amounts of Calcium Intake on Bone Mass and Arterial Calcification in Ovariectomized Rats. <i>Journal of Nutritional Science and Vitaminology</i> , 2015, 61, 391-399.	0.6	7
62	Basic fibroblast growth factor supports in vitro chondrogenesis of bone marrow-derived mesenchymal stem cells from patients with osteoarthritis. <i>Materials Science and Engineering C</i> , 2004, 24, 403-406.	7.3	6
63	Effect of Acupuncture on Salivary Immunoglobulin a after a Bout of Intense Exercise. <i>Acupuncture in Medicine</i> , 2010, 28, 214-214.	1.0	6
64	DHEA Administration Activates Local Bioactive Androgen Metabolism in Cancellous Site of Tibia of Ovariectomized Rats. <i>Calcified Tissue International</i> , 2011, 89, 105-110.	3.1	6
65	EFFECTS OF LONG-TERM EXERCISE TRAINING ON PERIPHERAL LYMPHOCYTE SUBSETS IN ELDERLY SUBJECTS. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2003, 52, 193-202.	0.0	6
66	DIFFERENCES IN UNDERWATER AND LAND-BASED LEG MUSCLE ACTIVITY. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2004, 53, 141-147.	0.0	6
67	Live-cell imaging of microRNA expression with post-transcriptional feedback control. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 547-556.	5.1	5
68	Effect of acute mid-intensity treadmill exercise on the androgen hormone level and uncoupling protein-1 expression in brown fat tissue of mouse. <i>Journal of Exercise Nutrition &amp; Biochemistry</i> , 2018, 22, 15-21.	1.3	5
69	Effect of mechanical stretch on TGF- $\beta$ 1 expression of C2C12 myogenic cells. <i>Materials Science and Engineering C</i> , 2004, 24, 387-389.	7.3	4
70	ALTERATIONS OF SALIVARY SIgA DURING TRAINING CAMP IN COLLEGIATE RUGBY FOOTBALL PLAYERS. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2009, 58, 131-142.	0.0	4
71	EFFECTS OF REPETITIOUS INTENSE EXERCISE TRAINING ON RESTING SALIVARY IGA. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 1998, 47, 245-251.	0.0	4
72	Changes in Urinary Titin Fragment in Response to Different Types of Dynamic Eccentric Exercises. <i>International Journal of Sports Medicine</i> , 2021, 42, 432-440.	1.7	3

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73	Dicer-mediated miRNA processing is not involved in controlling muscle mass during muscle atrophy. <i>Scientific Reports</i> , 2021, 11, 19361.	3.3	3
74	Tendon-Specific Dicer Deficient Mice Exhibit Hypoplastic Tendon Through the Downregulation of Tendon-Related Genes and MicroRNAs. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	3
75	Modulation of viability of live cells by focused ion-beam exposure. <i>Biotechnology and Bioengineering</i> , 2011, 108, 222-225.	3.3	2
76	Changes in the number of circulating CD34+ cells after eccentric exercise of the elbow flexors in relation to muscle damage. <i>Journal of Sport and Health Science</i> , 2015, 4, 275-281.	6.5	2
77	An acute eccentric exercise increases circulating myomesin 3 fragments. <i>Journal of Physiological Sciences</i> , 2021, 71, 4.	2.1	2
78	Study of Conditioning of National Team Mogul Skiers. <i>International Journal of Sport and Health Science</i> , 2006, 4, 57-66.	0.2	2
79	SERUM STEROID HORMONE RESPONSES TO ACUTE RESISTANCE EXERCISE. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2001, 50, 293-302.	0.0	2
80	Effects of trunk extensor eccentric exercise on lipid profile and glycaemic response. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000861.	2.9	2
81	Ascorbic acid 2-phosphate enhances albumin mRNA expression and secretion of porcine hepatocytes. <i>Materials Science and Engineering C</i> , 2004, 24, 323-327.	7.3	1
82	Effect of endothelial microRNAs on blood pressure homeostasis. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2018, 7, 41-45.	0.3	1
83	EFFECTS OF EXERCISE ON IMMUNE FUNCTION IN ELDERLY PERSONS. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2003, 52, 65-71.	0.0	1
84	EFFECT OF ICING TREATMENT ON MUSCLE REACTION TIME AND FUNCTIONAL PERFORMANCE OF A SPRAINED ANKLE. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2002, 51, 175-183.	0.0	0
85	CHANGES IN SALIVA DEHYDROEPIANDROSTERONE IN FEMALE FOOTBALL PLAYERS DURING COMPETITIVE SPORTS. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2004, 53, 149-156.	0.0	0
86	Identification of membrane and secreted proteins in anterior cruciate ligament derived cells using a signal-sequence-trap, a retrovirus-mediated expression screening method. <i>Materials Science and Engineering C</i> , 2004, 24, 397-401.	7.3	0
87	Influence of caloric restriction and exercise on mitochondrial quality control in skeletal muscle. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2015, 64, 389-396.	0.0	0
88	Effects Of Cryotherapy After Contusion Using Real-time Intra-vital Microscopy. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S356.	0.4	0
89	CHASM is a Unique Biomarker of Type IIa Muscle Fibers and is Regulated by PKA in vivo. <i>FASEB Journal</i> , 2006, 20, LB31.	0.5	0
90	Translational Suppression of Atrogin-1 and MuRF1 by miR-23a Integrates Resistance to Skeletal Muscle Atrophy. <i>FASEB Journal</i> , 2012, 26, 1086.3.	0.5	0

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91	ALTERATION OF SALIVARY IMMUNOGLOBULIN A BY A BOUT OF EXERCISE IN THE VISUALLY IMPAIRED MALES. Japanese Journal of Physical Fitness and Sports Medicine, 1997, 46, 523-527.	0.0	0