

Tetsuya Izawa

List of Publications by Citations

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92
papers

1,440
citations

21
h-index

34
g-index

97
ext. papers

1,582
ext. citations

3.9
avg, IF

3.71
L-index

#	Paper	IF	Citations
92	A circadian clock gene, Rev-erb α modulates the inflammatory function of macrophages through the negative regulation of Ccl2 expression. <i>Journal of Immunology</i> , 2014 , 192, 407-17	5.3	147
91	Endurance training improves the resistance of rat diaphragm to exercise-induced oxidative stress. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997 , 156, 1579-85	10.2	85
90	Antioxidative effects of a new lychee fruit-derived polyphenol mixture, oligonol, converted into a low-molecular form in adipocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 463-76	2.1	62
89	Exercise training decreases expression of inflammation-related adipokines through reduction of oxidative stress in rat white adipose tissue. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 379, 605-9	3.4	52
88	The effects of exercise training on obesity-induced dysregulated expression of adipokines in white adipose tissue. <i>International Journal of Endocrinology</i> , 2013 , 2013, 801743	2.7	49
87	Oligomerized grape seed polyphenols attenuate inflammatory changes due to antioxidative properties in coculture of adipocytes and macrophages. <i>Journal of Nutritional Biochemistry</i> , 2010 , 21, 47-54	6.3	44
86	Beta2-adrenergic receptor regulates Toll-like receptor-4-induced nuclear factor-kappaB activation through beta-arrestin 2. <i>Immunology</i> , 2008 , 124, 348-56	7.8	44
85	Adaptation of macrophages to exercise training improves innate immunity. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 152-6	3.4	43
84	Melatonin promotes adipogenesis and mitochondrial biogenesis in 3T3-L1 preadipocytes. <i>Journal of Pineal Research</i> , 2015 , 59, 267-75	10.4	41
83	Exercise Training Attenuates the Dysregulated Expression of Adipokines and Oxidative Stress in White Adipose Tissue. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 9410954	6.7	40
82	Effect of exercise training on adipocyte-size-dependent expression of leptin and adiponectin. <i>Life Sciences</i> , 2010 , 86, 691-8	6.8	37
81	Oligonol, a new lychee fruit-derived low-molecular form of polyphenol, enhances lipolysis in primary rat adipocytes through activation of the ERK1/2 pathway. <i>Phytotherapy Research</i> , 2009 , 23, 1626-33	6.7	37
80	Voluntary exercise attenuates obesity-associated inflammation through ghrelin expressed in macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 413, 454-9	3.4	35
79	Direct and indirect suppression of interleukin-6 gene expression in murine macrophages by nuclear orphan receptor REV-ERB α . <i>Scientific World Journal, The</i> , 2014 , 2014, 685854	2.2	34
78	Beta2-adrenergic receptor regulate Toll-like receptor 4-induced late-phase NF-kappaB activation. <i>Molecular Immunology</i> , 2009 , 46, 1195-203	4.3	30
77	Relation between fat distributions and several plasma adipocytokines after exercise training in premenopausal and postmenopausal women. <i>Journal of Physiological Anthropology and Applied Human Science</i> , 2002 , 21, 105-13		30
76	Seven skeletal muscles rich in slow muscle fibers may function to sustain neutral position in the rodent hindlimb. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005 , 140, 45-50	2.3	29

75	Down-regulation of beta2-adrenergic receptor expression by exercise training increases IL-12 production by macrophages following LPS stimulation. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 979-84	3.4	29
74	Higher levels of ATGL are associated with exercise-induced enhancement of lipolysis in rat epididymal adipocytes. <i>PLoS ONE</i> , 2012 , 7, e40876	3.7	26
73	Possible mechanisms by which adipocyte lipolysis is enhanced in exercise-trained rats. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 295, 236-42	3.4	25
72	Effects of exercise training on adipogenesis of stromal-vascular fraction cells in rat epididymal white adipose tissue. <i>Acta Physiologica</i> , 2010 , 200, 325-338	5.6	22
71	The Molecular Mechanism Underlying Continuous Exercise Training-Induced Adaptive Changes of Lipolysis in White Adipose Cells. <i>Journal of Obesity</i> , 2015 , 2015, 473430	3.7	21
70	Effect of exercise training on the density of endothelial cells in the white adipose tissue of rats. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2011 , 21, e115-21	4.6	20
69	Possible mechanism of regulating adenylate cyclase activity in adipocyte membranes from exercise-trained male rats. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 151, 1262-8	3.4	20
68	Functional roles of Fli-1, a member of the Ets family of transcription factors, in human breast malignancy. <i>Cancer Science</i> , 2007 , 98, 1775-84	6.9	19
67	Role of nitric oxide in muscle regeneration following eccentric muscle contractions in rat skeletal muscle. <i>Journal of Physiological Sciences</i> , 2013 , 63, 263-70	2.3	18
66	Hormone-sensitive lipase is critical mediators of acute exercise-induced regulation of lipolysis in rat adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 400, 134-9	3.4	17
65	Enhanced expression of neuronal nitric oxide synthase in islets of exercise-trained rats. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 312, 794-800	3.4	16
64	Effect of Circadian Rhythm on Clinical and Pathophysiological Conditions and Inflammation. <i>Critical Reviews in Immunology</i> , 2015 , 35, 261-75	1.8	15
63	Relationships among serum triacylglycerol, fat pad weight, and lipolysis in iron-deficient rats. <i>Journal of Nutritional Biochemistry</i> , 2000 , 11, 455-60	6.3	15
62	Effect of running training on uncoupling protein mRNA expression in rat brown adipose tissue. <i>International Journal of Biometeorology</i> , 1993 , 37, 61-4	3.7	15
61	Comparison of the effect of oligonol, a new lychee fruit-derived low molecular form of polyphenol, and epigallocatechin-3-gallate on lipolysis in rat primary adipocytes. <i>Phytotherapy Research</i> , 2011 , 25, 467-71	6.7	14
60	Effects of exercise training on adipogenesis of stromal-vascular fraction cells in rat epididymal white adipose tissue. <i>Acta Physiologica</i> , 2010 , 200, 325-38	5.6	13
59	Desensitization of the inhibitory effect of norepinephrine on insulin secretion from pancreatic islets of exercise-trained rats. <i>Metabolism: Clinical and Experimental</i> , 2004 , 53, 1424-32	12.7	13
58	Effect of endurance training on angiogenic activity in skeletal muscles. <i>Pflugers Archiv European Journal of Physiology</i> , 1993 , 422, 332-8	4.6	13

57	Relationship between cold tolerance and generation of suppressor macrophages during acute cold stress. <i>Journal of Applied Physiology</i> , 1997 , 83, 1116-22	3.7	12
56	Beta-adrenergic receptor trafficking by exercise in rat adipocytes: roles of G-protein-coupled receptor kinase-2, beta-arrestin-2, and the ubiquitin-proteasome pathway. <i>FASEB Journal</i> , 2006 , 20, 350-2	3.9	12
55	Endurance exercise training induces fat depot-specific differences in basal autophagic activity. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 466, 512-7	3.4	11
54	Oligomerised lychee fruit-derived polyphenol attenuates cognitive impairment in senescence-accelerated mice and endoplasmic reticulum stress in neuronal cells. <i>British Journal of Nutrition</i> , 2013 , 110, 1549-58	3.6	11
53	Protein kinase C-dependent diacylglycerol formation is mediated via Ca ²⁺ /calmodulin in parotid cells. <i>European Journal of Pharmacology</i> , 1991 , 207, 175-81		11
52	Mechanism of carbachol-stimulated diacylglycerol formation in rat parotid acinar cells. <i>European Journal of Pharmacology</i> , 1992 , 225, 209-16		11
51	Involvement of leucine zipper transcription factor-like protein 1 (Lztl1) in the attenuation of cognitive impairment by exercise training. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 416, 125-9	3.4	10
50	Oligonol, an oligomerized lychee fruit-derived polyphenol, activates the Ras/Raf-1/MEK1/2 cascade independent of the IL-6 signaling pathway in rat primary adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 402, 554-9	3.4	10
49	Distribution of facial motoneurons innervating the common facial muscles of the rabbit and rat. <i>Okajimas Folia Anatomica Japonica</i> , 2004 , 81, 101-8	0.3	10
48	Exercise training increases membrane bound form of tumor necrosis factor-alpha receptors with decreases in the secretion of soluble forms of receptors in rat adipocytes. <i>Life Sciences</i> , 2002 , 71, 601-9	6.8	10
47	An acute exercise-induced translocation of beta-adrenergic receptors in rat myocardium. <i>Journal of Biochemistry</i> , 1989 , 105, 110-3	3.1	10
46	Acute exercise alters Galphai2 protein expressions through the ubiquitin-proteasome proteolysis pathway in rat adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 323, 1109-15	3.4	9
45	Activation and apoptosis of murine peritoneal macrophages by acute cold stress. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 283, 700-6	3.4	9
44	Altered intracellular Ca ²⁺ regulation in pancreatic acinar cells from acute streptozotocin-induced diabetic rats. <i>European Journal of Pharmacology</i> , 1996 , 298, 299-306	5.3	9
43	Exercise training enhances tumor necrosis factor-alpha-induced expressions of anti-apoptotic genes without alterations in caspase-3 activity in rat epididymal adipocytes. <i>The Japanese Journal of Physiology</i> , 2005 , 55, 181-9		8
42	Swimming training prevents generation of suppressor macrophages during acute cold stress. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 143-8	1.2	7
41	Endurance training facilitates myoglobin desaturation during muscle contraction in rat skeletal muscle. <i>Scientific Reports</i> , 2015 , 5, 9403	4.9	6
40	Preventive and improvement effects of exercise training and supplement intake in white adipose tissues on obesity and lifestyle-related diseases. <i>Environmental Health and Preventive Medicine</i> , 2012 , 17, 348-56	4.2	6

39	Exercise before or after refeeding prevents refeeding-induced recovery of cell size after fasting with a different pattern of metabolic gene expressions in rat epididymal adipocytes. <i>Metabolism: Clinical and Experimental</i> , 2007 , 56, 1270-8	12.7	6
38	Augmentation of catecholamine-stimulated [3H]GDP release in adipocyte membranes from exercise-trained rats. <i>The Japanese Journal of Physiology</i> , 1986 , 36, 1039-45		6
37	Changes in nitric oxide and inducible nitric oxide synthase following stretch-induced injury to the tibialis anterior muscle of rabbit. <i>The Japanese Journal of Physiology</i> , 2005 , 55, 101-7		6
36	Habitual exercise training acts as a physiological stimulator for constant activation of lipolytic enzymes in rat primary white adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 464, 348-53	3.4	5
35	Exercise ameliorates high-fat diet-induced impairment of differentiation of adipose-derived stem cells into neuron-like cells in rats. <i>Journal of Cellular Physiology</i> , 2019 , 234, 1452-1460	7	5
34	ETAS, an Enzyme-treated Asparagus Extract, Attenuates Amyloid β Induced Cellular Disorder in PC 12 Cells. <i>Natural Product Communications</i> , 2014 , 9, 1934578X1400900	0.9	5
33	Possible role of nitric oxide on adipocyte lipolysis in exercise-trained rats. <i>The Japanese Journal of Physiology</i> , 2002 , 52, 343-52		5
32	Substance P-induced diacylglycerol formation in rat parotid acinar cells. <i>European Journal of Pharmacology</i> , 1991 , 207, 329-35		5
31	Acute or chronic exercise alters angiotensin II-induced contraction of rat aorta. <i>The Japanese Journal of Physiology</i> , 1995 , 45, 1093-100		5
30	Effect of a 9-week exercise training regimen on expression of developmental genes related to growth-dependent fat expansion in juvenile rats. <i>Physiological Reports</i> , 2018 , 6, e13880	2.6	5
29	Inhibition of adipocyte lipolysis by papaverine: papaverine can inhibit the redistribution of hormone-sensitive lipase. <i>Life Sciences</i> , 2000 , 66, PL359-64	6.8	4
28	Recovery of beta-receptors and adenylate cyclase from desensitization induced by short term heat exposure in rat parotid glands. <i>General Pharmacology</i> , 1993 , 24, 205-10		4
27	Beta-adrenergic receptor adaptation after an acute exercise in rat myocardium. <i>The Japanese Journal of Physiology</i> , 1989 , 39, 447-54		4
26	The effects of exercise on macrophage function. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012 , 1, 113-123	0.5	4
25	Macrophage deficiency in osteopetrotic (op/op) mice inhibits activation of satellite cells and prevents hypertrophy in single soleus fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C848-55	5.4	3
24	Effect of physical exercise on lipolysis in white adipocytes. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012 , 1, 351-356	0.5	3
23	Effects of physical activity and melatonin on brain-derived neurotrophic factor and cytokine expression in the cerebellum of high-fat diet-fed rats. <i>Neuropsychopharmacology Reports</i> , 2020 , 40, 291-296	2.2	3
22	Stress- and aging-associated modulation of macrophage functions. <i>Environmental Health and Preventive Medicine</i> , 2002 , 6, 218-28	4.2	2

21	G protein beta gamma-subunits inhibit purified adenylate cyclase independent of the activation by Ca ²⁺ and calmodulin. <i>The Japanese Journal of Pharmacology</i> , 1993 , 62, 103-6		2
20	Ca ²⁺ potentiates corticotropin-induced, but not isoproterenol-induced, [3H]guanosine diphosphate release in rat adipocyte membranes. <i>Metabolism: Clinical and Experimental</i> , 1992 , 41, 462-4	12.7	2
19	Exercise Training-Enhanced Lipolytic Potency to Catecholamine Depends on the Time of the Day. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
18	Homeobox A5 and C10 genes modulate adaptation of brown adipose tissue during exercise training in juvenile rats. <i>Experimental Physiology</i> , 2021 , 106, 463-474	2.4	2
17	Oligonol-induced Degradation of Perilipin 1 is Regulated through Lysosomal Degradation Machinery. <i>Natural Product Communications</i> , 2012 , 7, 1934578X1200700	0.9	1
16	Recent advances in the adaptations of adipose tissue to physical activity: Morphology and adipose tissue cellularity. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012 , 1, 381-387	0.5	1
15	Transcription regulation of gene expression in rat brown adipose tissue in response to unloading or 2G loading during growing period. <i>Acta Astronautica</i> , 2007 , 60, 889-898	2.9	1
14	Effects of overexpression of the Ets family transcription factor TEL on cell growth and differentiation of K562 cells 2003 , 22, 1327		1
13	A single bout of exercise brings about capillary growth in skeletal muscle through basic fibroblast growth factor (bFGF). <i>Pathophysiology</i> , 1996 , 3, 197-201	1.8	1
12	In vivo adaptive control of beta-receptors and adenylate cyclase during short-term heat exposure in rat parotid glands. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1991 , 98, 411-6		1
11	Ca ²⁺ ionophore and phorbol ester stimulate diacylglycerol formation and phosphatidylcholine hydrolysis in rat parotid acinar cells. <i>The Japanese Journal of Pharmacology</i> , 1992 , 59, 97-103		1
10	Effects of Ca ²⁺ and calmodulin antagonists on the oxygen uptake induced by acetylcholine or substance P in rat submandibular gland slices. <i>The Japanese Journal of Pharmacology</i> , 1984 , 36, 441-7		1
9	COMPARISON BETWEEN LIPOLYSIS IN ADIPOSE TISSUE FROM EXERCISE-TRAINED RATS AND FROM CHRONIC ISOPROTERENOL-TREATED RATS. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 1984 , 33, 8-16	0.1	1
8	Depression of Bone Density at the Weight-Bearing Joints in Wistar Hannover Rats by a Simulated Mechanical Stress Associated With Partial Gravity Environment. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 707470	5.7	0
7	Differential response of adipose tissue gene and protein expressions to 4- and 8-week administration of L-guanidinopropionic acid in mice. <i>Physiological Reports</i> , 2018 , 6, e13616	2.6	
6	We have two strategies to attain healthy aging. <i>Geriatrics and Gerontology International</i> , 2004 , 4, S311-S312		
5	Stress- and Aging-Associated Modulation of Macrophage Functions.. <i>Environmental Health and Preventive Medicine</i> , 2002 , 6, 218-228	4.2	
4	The experimental system to analyze mRNA expression profiles between slow and fast muscle fibers. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2005 , 54, 73-73	0.1	

- 3 EFFECTS OF CHRONIC IN VIVO β -ADRENERGIC STIMULATION ON RAT ADIPOCYTES. *Japanese Journal of Physical Fitness and Sports Medicine*, **1987**, 36, 147-155 0.1
- 2 Exercise training and the promotion of neurogenesis and neurite outgrowth in the hippocampus. *The Journal of Physical Fitness and Sports Medicine*, **2012**, 1, 333-337 0.5
- 1 Age-induced muscle atrophy and increase in fatigue resistance. *The Journal of Physical Fitness and Sports Medicine*, **2014**, 3, 435-439 0.5