Tetsuya Izawa

List of Publications by Year in Descending Order

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	Depression of Bone Density at the Weight-Bearing Joints in Wistar Hannover Rats by a Simulated Mechanical Stress Associated With Partial Gravity Environment. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 707470	5.7	0
91	Homeobox A5 and C10 genes modulate adaptation of brown adipose tissue during exercise training in juvenile rats. *Experimental Physiology*, **2021**, 106, 463-474	2.4	2
90	Exercise Training-Enhanced Lipolytic Potency to Catecholamine Depends on the Time of the Day. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
89	Effects of physical activity and melatonin on brain-derived neurotrophic factor and cytokine expression in the cerebellum of high-fat diet-fed rats. *Neuropsychopharmacology Reports*, **2020**, 40, 291-296	2.2	3
88	Exercise ameliorates high-fat diet-induced impairment of differentiation of adipose-derived stem cells into neuron-like cells in rats. *Journal of Cellular Physiology*, **2019**, 234, 1452-1460	7	5
87	Differential response of adipose tissue gene and protein expressions to 4- and 8-week administration of guanidinopropionic acid in mice. *Physiological Reports*, **2018**, 6, e13616	2.6	
86	Effect of a 9-week exercise training regimen on expression of developmental genes related to growth-dependent fat expansion in juvenile rats. *Physiological Reports*, **2018**, 6, e13880	2.6	5
85	Exercise Training Attenuates the Dysregulated Expression of Adipokines and Oxidative Stress in White Adipose Tissue. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 9410954	6.7	40
84	Habitual exercise training acts as a physiological stimulator for constant activation of lipolytic enzymes in rat primary white adipocytes. *Biochemical and Biophysical Research Communications*, **2015**, 464, 348-53	3.4	5
83	Macrophage deficiency in osteopetrotic (op/op) mice inhibits activation of satellite cells and prevents hypertrophy in single soleus fibers. *American Journal of Physiology - Cell Physiology*, **2015**, 308, C848-55	5.4	3
82	Endurance exercise training induces fat depot-specific differences in basal autophagic activity. *Biochemical and Biophysical Research Communications*, **2015**, 466, 512-7	3.4	11
81	Endurance training facilitates myoglobin desaturation during muscle contraction in rat skeletal muscle. *Scientific Reports*, **2015**, 5, 9403	4.9	6
80	Melatonin promotes adipogenesis and mitochondrial biogenesis in 3T3-L1 preadipocytes. *Journal of Pineal Research*, **2015**, 59, 267-75	10.4	41
79	The Molecular Mechanism Underlying Continuous Exercise Training-Induced Adaptive Changes of Lipolysis in White Adipose Cells. *Journal of Obesity*, **2015**, 2015, 473430	3.7	21
78	Effect of Circadian Rhythm on Clinical and Pathophysiological Conditions and Inflammation. *Critical Reviews in Immunology*, **2015**, 35, 261-75	1.8	15
77	A circadian clock gene, Rev-erb modulates the inflammatory function of macrophages through the negative regulation of Ccl2 expression. *Journal of Immunology*, **2014**, 192, 407-17	5.3	147
76	Direct and indirect suppression of interleukin-6 gene expression in murine macrophages by nuclear orphan receptor REV-ERB *Scientific World Journal, The*, **2014**, 2014, 685854	2.2	34

75	ETAS, an Enzyme-treated Asparagus Extract, Attenuates Amyloid β-induced Cellular Disorder in PC 12 Cells. *Natural Product Communications*, **2014**, 9, 1934578X1400900	0.9	5
74	Age-induced muscle atrophy and increase in fatigue resistance. *The Journal of Physical Fitness and Sports Medicine*, **2014**, 3, 435-439	0.5	
73	Role of nitric oxide in muscle regeneration following eccentric muscle contractions in rat skeletal muscle. *Journal of Physiological Sciences*, **2013**, 63, 263-70	2.3	18
72	The effects of exercise training on obesity-induced dysregulated expression of adipokines in white adipose tissue. *International Journal of Endocrinology*, **2013**, 2013, 801743	2.7	49
71	Oligomerised lychee fruit-derived polyphenol attenuates cognitive impairment in senescence-accelerated mice and endoplasmic reticulum stress in neuronal cells. *British Journal of Nutrition*, **2013**, 110, 1549-58	3.6	11
70	Preventive and improvement effects of exercise training and supplement intake in white adipose tissues on obesity and lifestyle-related diseases. *Environmental Health and Preventive Medicine*, **2012**, 17, 348-56	4.2	6
69	Higher levels of ATGL are associated with exercise-induced enhancement of lipolysis in rat epididymal adipocytes. *PLoS ONE*, **2012**, 7, e40876	3.7	26
68	Effect of physical exercise on lipolysis in white adipocytes. *The Journal of Physical Fitness and Sports Medicine*, **2012**, 1, 351-356	0.5	3
67	Oligonol-induced Degradation of Perilipin 1 is Regulated through Lysosomal Degradation Machinery. *Natural Product Communications*, **2012**, 7, 1934578X1200700	0.9	1
66	Recent advances in the adaptations of adipose tissue to physical activity: Morphology and adipose tissue cellularity. *The Journal of Physical Fitness and Sports Medicine*, **2012**, 1, 381-387	0.5	1
65	The effects of exercise on macrophage function. *The Journal of Physical Fitness and Sports Medicine*, **2012**, 1, 113-123	0.5	4
64	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	
63	Voluntary exercise attenuates obesity-associated inflammation through ghrelin expressed in macrophages. *Biochemical and Biophysical Research Communications*, **2011**, 413, 454-9	3.4	35
62	Involvement of leucine zipper transcription factor-like protein 1 (Lztfl1) in the attenuation of cognitive impairment by exercise training. *Biochemical and Biophysical Research Communications*, **2011**, 416, 125-9	3.4	10
61	Effect of exercise training on the density of endothelial cells in the white adipose tissue of rats. *Scandinavian Journal of Medicine and Science in Sports*, **2011**, 21, e115-21	4.6	20
60	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. *Phytotherapy Research*, **2011**, 25, 467-71	6.7	14
59	Effects of exercise training on adipogenesis of stromal-vascular fraction cells in rat epididymal white adipose tissue. *Acta Physiologica*, **2010**, 200, 325-338	5.6	22
58	Effect of exercise training on adipocyte-size-dependent expression of leptin and adiponectin. *Life Sciences*, **2010**, 86, 691-8	6.8	37

57	Hormone-sensitive lipase is critical mediators of acute exercise-induced regulation of lipolysis in rat adipocytes. *Biochemical and Biophysical Research Communications*, **2010**, 400, 134-9	3.4	17
56	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. *Biochemical and Biophysical Research Communications*, **2010**, 402, 554-9	3.4	10
55	Effects of exercise training on adipogenesis of stromal-vascular fraction cells in rat epididymal white adipose tissue. *Acta Physiologica*, **2010**, 200, 325-38	5.6	13
54	Oligomerized grape seed polyphenols attenuate inflammatory changes due to antioxidative properties in coculture of adipocytes and macrophages. *Journal of Nutritional Biochemistry*, **2010**, 21, 47-54	6.3	44
53	Oligonol, a new lychee fruit-derived low-molecular form of polyphenol, enhances lipolysis in primary rat adipocytes through activation of the ERK1/2 pathway. *Phytotherapy Research*, **2009**, 23, 1626-33	6.7	37
52	Exercise training decreases expression of inflammation-related adipokines through reduction of oxidative stress in rat white adipose tissue. *Biochemical and Biophysical Research Communications*, **2009**, 379, 605-9	3.4	52
51	Beta2-adrenergic receptor regulate Toll-like receptor 4-induced late-phase NF-kappaB activation. *Molecular Immunology*, **2009**, 46, 1195-203	4.3	30
50	Beta2-adrenergic receptor regulates Toll-like receptor-4-induced nuclear factor-kappaB activation through beta-arrestin 2. *Immunology*, **2008**, 124, 348-56	7.8	44
49	Adaptation of macrophages to exercise training improves innate immunity. *Biochemical and Biophysical Research Communications*, **2008**, 372, 152-6	3.4	43
48	Antioxidative effects of a new lychee fruit-derived polyphenol mixture, oligonol, converted into a low-molecular form in adipocytes. *Bioscience, Biotechnology and Biochemistry*, **2008**, 72, 463-76	2.1	62
47	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. *Metabolism: Clinical and Experimental*, **2007**, 56, 1270-8	12.7	6
46	Transcription regulation of gene expression in rat brown adipose tissue in response to unloading or 2G loading during growing period. *Acta Astronautica*, **2007**, 60, 889-898	2.9	1
45	Functional roles of Fli-1, a member of the Ets family of transcription factors, in human breast malignancy. *Cancer Science*, **2007**, 98, 1775-84	6.9	19
44	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. *FASEB Journal*, **2006**, 20, 350-2	9.9	12
43	Seven skeletal muscles rich in slow muscle fibers may function to sustain neutral position in the rodent hindlimb. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2005**, 140, 45-50	2.3	29
42	Exercise training enhances tumor necrosis factor-alpha-induced expressions of anti-apoptotic genes without alterations in caspase-3 activity in rat epididymal adipocytes. *The Japanese Journal of Physiology*, **2005**, 55, 181-9		8
41	Changes in nitric oxide and inducible nitric oxide synthase following stretch-induced injury to the tibialis anterior muscle of rabbit. *The Japanese Journal of Physiology*, **2005**, 55, 101-7		6
40	The experimental system to analyze mRNA expression profiles between slow and fast muscle fibers. *Japanese Journal of Physical Fitness and Sports Medicine*, **2005**, 54, 73-73	0.1	

39	Distribution of facial motoneurons innervating the common facial muscles of the rabbit and rat. *Okajimas Folia Anatomica Japonica*, **2004**, 81, 101-8	0.3	10
38	We have two strategies to attain healthy aging. *Geriatrics and Gerontology International*, **2004**, 4, S311-S312	2.1	
37	Down-regulation of beta2-adrenergic receptor expression by exercise training increases IL-12 production by macrophages following LPS stimulation. *Biochemical and Biophysical Research Communications*, **2004**, 322, 979-84	3.4	29
36	Acute exercise alters Galphai2 protein expressions through the ubiquitin-proteasome proteolysis pathway in rat adipocytes. *Biochemical and Biophysical Research Communications*, **2004**, 323, 1109-15	3.4	9
35	Desensitization of the inhibitory effect of norepinephrine on insulin secretion from pancreatic islets of exercise-trained rats. *Metabolism: Clinical and Experimental*, **2004**, 53, 1424-32	12.7	13
34	Effects of overexpression of the Ets family transcription factor TEL on cell growth and differentiation of K562 cells **2003**, 22, 1327		1
33	Enhanced expression of neuronal nitric oxide synthase in islets of exercise-trained rats. *Biochemical and Biophysical Research Communications*, **2003**, 312, 794-800	3.4	16
32	Possible role of nitric oxide on adipocyte lipolysis in exercise-trained rats. *The Japanese Journal of Physiology*, **2002**, 52, 343-52		5
31	Relation between fat distributions and several plasma adipocytokines after exercise training in premenopausal and postmenopausal women. *Journal of Physiological Anthropology and Applied Human Science*, **2002**, 21, 105-13		30
30	Stress- and aging-associated modulation of macrophage functions. *Environmental Health and Preventive Medicine*, **2002**, 6, 218-28	4.2	2
29	Stress- and Aging-Associated Modulation of Macrophage Functions.. *Environmental Health and Preventive Medicine*, **2002**, 6, 218-228	4.2	
28	Possible mechanisms by which adipocyte lipolysis is enhanced in exercise-trained rats. *Biochemical and Biophysical Research Communications*, **2002**, 295, 236-42	3.4	25
27	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. *Life Sciences*, **2002**, 71, 601-9	6.8	10
26	Activation and apoptosis of murine peritoneal macrophages by acute cold stress. *Biochemical and Biophysical Research Communications*, **2001**, 283, 700-6	3.4	9
25	Relationships among serum triacylglycerol, fat pad weight, and lipolysis in iron-deficient rats. *Journal of Nutritional Biochemistry*, **2000**, 11, 455-60	6.3	15
24	Swimming training prevents generation of suppressor macrophages during acute cold stress. *Medicine and Science in Sports and Exercise*, **2000**, 32, 143-8	1.2	7
23	Inhibition of adipocyte lipolysis by papaverine: papaverine can inhibit the redistribution of hormone-sensitive lipase. *Life Sciences*, **2000**, 66, PL359-64	6.8	4
22	Endurance training improves the resistance of rat diaphragm to exercise-induced oxidative stress. *American Journal of Respiratory and Critical Care Medicine*, **1997**, 156, 1579-85	10.2	85

21	Relationship between cold tolerance and generation of suppressor macrophages during acute cold stress. *Journal of Applied Physiology*, **1997**, 83, 1116-22	3.7	12
20	A single bout of exercise brings about capillary growth in skeletal muscle through basic fibroblast growth factor (bFGF). *Pathophysiology*, **1996**, 3, 197-201	1.8	1
19	Altered intracellular Ca2+ regulation in pancreatic acinar cells from acute streptozotocin-induced diabetic rats. *European Journal of Pharmacology*, **1996**, 298, 299-306	5.3	9
18	Acute or chronic exercise alters angiotensin II-induced contraction of rat aorta. *The Japanese Journal of Physiology*, **1995**, 45, 1093-100		5
17	G protein beta gamma-subunits inhibit purified adenylate cyclase independent of the activation by Ca2+ and calmodulin. *The Japanese Journal of Pharmacology*, **1993**, 62, 103-6		2
16	Effect of endurance training on angiogenic activity in skeletal muscles. *Pflugers Archiv European Journal of Physiology*, **1993**, 422, 332-8	4.6	13
15	Effect of running training on uncoupling protein mRNA expression in rat brown adipose tissue. *International Journal of Biometeorology*, **1993**, 37, 61-4	3.7	15
14	Recovery of beta-receptors and adenylate cyclase from desensitization induced by short term heat exposure in rat parotid glands. *General Pharmacology*, **1993**, 24, 205-10		4
13	Ca2+ ionophore and phorbol ester stimulate diacylglycerol formation and phosphatidylcholine hydrolysis in rat parotid acinar cells. *The Japanese Journal of Pharmacology*, **1992**, 59, 97-103		1
12	Ca2+ potentiates corticotropin-induced, but not isoproterenol-induced, [3H]guanosine diphosphate release in rat adipocyte membranes. *Metabolism: Clinical and Experimental*, **1992**, 41, 462-4	12.7	2
11	Mechanism of carbachol-stimulated diacylglycerol formation in rat parotid acinar cells. *European Journal of Pharmacology*, **1992**, 225, 209-16		11
10	Substance P-induced diacylglycerol formation in rat parotid acinar cells. *European Journal of Pharmacology*, **1991**, 207, 329-35		5
9	Protein kinase C-dependent diacylglycerol formation is mediated via Ca2+/calmodulin in parotid cells. *European Journal of Pharmacology*, **1991**, 207, 175-81		11
8	In vivo adaptive control of beta-receptors and adenylate cyclase during short-term heat exposure in rat parotid glands. *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology*, **1991**, 98, 411-6		1
7	An acute exercise-induced translocation of beta-adrenergic receptors in rat myocardium. *Journal of Biochemistry*, **1989**, 105, 110-3	3.1	10
6	Beta-adrenergic receptor adaptation after an acute exercise in rat myocardium. *The Japanese Journal of Physiology*, **1989**, 39, 447-54		4
5	Possible mechanism of regulating adenylate cyclase activity in adipocyte membranes from exercise-trained male rats. *Biochemical and Biophysical Research Communications*, **1988**, 151, 1262-8	3.4	20
4	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	

3	Augmentation of catecholamine-stimulated [3H]GDP release in adipocyte membranes from exercise-trained rats. *The Japanese Journal of Physiology*, **1986**, 36, 1039-45		6
2	Effects of Ca2+ and calmodulin antagonists on the oxygen uptake induced by acetylcholine or substance P in rat submandibular gland slices. *The Japanese Journal of Pharmacology*, **1984**, 36, 441-7		1
1	COMPARISON BETWEEN LIPOLYSIS IN ADIPOSE TISSUE FROM EXERCISE-TRAINED RATS AND FROM CHRONIC ISOPROTERENOL-TREATED RATS. *Japanese Journal of Physical Fitness and Sports Medicine*, **1984**, 33, 8-16	0.1	1