

# Takeshi Takarada

## List of Publications by Citations

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106  
papers

2,449  
citations

25  
h-index

44  
g-index

117  
ext. papers

2,929  
ext. citations

6.2  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
106	Glucose Uptake and Runx2 Synergize to Orchestrate Osteoblast Differentiation and Bone Formation. <i>Cell</i> , <b>2015</b> , 161, 1576-1591	56.2	255
105	Glutamate signaling in peripheral tissues. <i>FEBS Journal</i> , <b>2004</b> , 271, 1-13		149
104	An analysis of skeletal development in osteoblast-specific and chondrocyte-specific runt-related transcription factor-2 (Runx2) knockout mice. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 2064-9	6.3	113
103	Clock genes influence gene expression in growth plate and endochondral ossification in mice. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 36081-95	5.4	67
102	Bone Resorption Is Regulated by Circadian Clock in Osteoblasts. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 872-881	6.3	56
101	Disruption of Bmal1 Impairs Blood-Brain Barrier Integrity via Pericyte Dysfunction. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 10052-10062	6.6	55
100	Up-regulation of per mRNA expression by parathyroid hormone through a protein kinase A-CREB-dependent mechanism in chondrocytes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 23632-42	5.4	53
99	Genetic analysis of Runx2 function during intramembranous ossification. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 211-8	6.6	51
98	Functional expression of beta2 adrenergic receptors responsible for protection against oxidative stress through promotion of glutathione synthesis after Nrf2 upregulation in undifferentiated mesenchymal C3H10T1/2 stem cells. <i>Journal of Cellular Physiology</i> , <b>2009</b> , 218, 268-75	7	51
97	Nuclear factor E2 p45-related factor 2 negatively regulates chondrogenesis. <i>Bone</i> , <b>2007</b> , 40, 337-44	4.7	51
96	Facilitation of glutamate release by ionotropic glutamate receptors in osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 297, 452-8	3.4	51
95	Circadian Clock Regulates Bone Resorption in Mice. <i>Journal of Bone and Mineral Research</i> , <b>2016</b> , 31, 1344-55	6.5	50
94	Glutamate signaling system in bone. <i>Journal of Pharmacological Sciences</i> , <b>2004</b> , 94, 215-20	3.7	50
93	Possible protection by notoginsenoside R1 against glutamate neurotoxicity mediated by N-methyl-D-aspartate receptors composed of an NR1/NR2B subunit assembly. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 2145-56	4.4	48
92	Deletion of Runx2 in Articular Chondrocytes Decelerates the Progression of DMM-Induced Osteoarthritis in Adult Mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 2371	4.9	45
91	Positive regulation of osteoclastic differentiation by growth differentiation factor 15 upregulated in osteocytic cells under hypoxia. <i>Journal of Bone and Mineral Research</i> , <b>2012</b> , 27, 938-49	6.3	45
90	Neurogenesis mediated by gamma-aminobutyric acid and glutamate signaling. <i>Journal of Pharmacological Sciences</i> , <b>2009</b> , 110, 133-49	3.7	45

89	A molecular mechanism of pyruvate protection against cytotoxicity of reactive oxygen species in osteoblasts. <i>Molecular Pharmacology</i> , <b>2006</b> , 70, 925-35	4.3	41
88	The intrinsic microglial clock system regulates interleukin-6 expression. <i>Glia</i> , <b>2017</b> , 65, 198-208	9	34
87	Abolition of chondral mineralization by group III metabotropic glutamate receptors expressed in rodent cartilage. <i>British Journal of Pharmacology</i> , <b>2005</b> , 146, 732-43	8.6	32
86	Glutamate suppresses osteoclastogenesis through the cystine/glutamate antiporter. <i>American Journal of Pathology</i> , <b>2007</b> , 170, 1277-90	5.8	30
85	Glutamate transporters as drug targets. <i>CNS and Neurological Disorders</i> , <b>2005</b> , 4, 211-20		29
84	Selective upregulation of Per1 mRNA expression by ATP through activation of P2X7 purinergic receptors expressed in microglial cells. <i>Journal of Pharmacological Sciences</i> , <b>2011</b> , 116, 350-61	3.7	28
83	Excitatory amino acid transporters expressed by synovial fibroblasts in rats with collagen-induced arthritis. <i>Biochemical Pharmacology</i> , <b>2005</b> , 70, 1744-55	6	27
82	Predominant promotion by tacrolimus of chondrogenic differentiation to proliferating chondrocytes. <i>Journal of Pharmacological Sciences</i> , <b>2009</b> , 109, 413-23	3.7	26
81	Possible neuroprotective property of nicotinic acetylcholine receptors in association with predominant upregulation of glial cell line-derived neurotrophic factor in astrocytes. <i>Journal of Neuroscience Research</i> , <b>2012</b> , 90, 2074-85	4.4	25
80	Accumulation of [3H] glutamate in cultured rat calvarial osteoblasts. <i>Biochemical Pharmacology</i> , <b>2004</b> , 68, 177-84	6	25
79	ATF3 deficiency in chondrocytes alleviates osteoarthritis development. <i>Journal of Pathology</i> , <b>2016</b> , 239, 426-37	9.4	25
78	Inhibition by 2-methoxy-4-ethylphenol of Ca <sup>2+</sup> influx through acquired and native N-methyl-D-aspartate-receptor channels. <i>Journal of Pharmacological Sciences</i> , <b>2010</b> , 112, 273-81	3.7	24
77	NR2-reactive antibody decreases cell viability through augmentation of Ca(2+) influx in systemic lupus erythematosus. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 3952-9		23
76	Interference with cellular differentiation by D-serine through antagonism at N-methyl-D-aspartate receptors composed of NR1 and NR3A subunits in chondrocytes. <i>Journal of Cellular Physiology</i> , <b>2009</b> , 220, 756-64	7	23
75	Pharmacological topics of bone metabolism: glutamate as a signal mediator in bone. <i>Journal of Pharmacological Sciences</i> , <b>2008</b> , 106, 536-41	3.7	23
74	Promoted neuronal differentiation after activation of alpha4/beta2 nicotinic acetylcholine receptors in undifferentiated neural progenitors. <i>PLoS ONE</i> , <b>2012</b> , 7, e46177	3.7	22
73	Promotion of both proliferation and neuronal differentiation in pluripotent P19 cells with stable overexpression of the glutamine transporter slc38a1. <i>PLoS ONE</i> , <b>2012</b> , 7, e48270	3.7	22
72	A critical importance of polyamine site in NMDA receptors for neurite outgrowth and fasciculation at early stages of P19 neuronal differentiation. <i>Experimental Cell Research</i> , <b>2008</b> , 314, 2603-17	4.2	21

71	Suppression by glutamate of proliferative activity through glutathione depletion mediated by the cystine/glutamate antiporter in mesenchymal C3H10T1/2 stem cells. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 721-9	7	20
70	Exacerbated vulnerability to oxidative stress in astrocytic C6 glioma cells with stable overexpression of the glutamine transporter slc38a1. <i>Neurochemistry International</i> , <b>2011</b> , 58, 504-11	4.4	19
69	Osteoblastic $\beta$ -aminobutyric acid, type B receptors negatively regulate osteoblastogenesis toward disturbance of osteoclastogenesis mediated by receptor activator of nuclear factor $\kappa$ B ligand in mouse bone. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 32906-17	5.4	19
68	Transactivation by Runt related factor-2 of matrix metalloproteinase-13 in astrocytes. <i>Neuroscience Letters</i> , <b>2009</b> , 451, 99-104	3.3	19
67	Counteraction by repetitive daily exposure to static magnetism against sustained blockade of N-methyl-D-aspartate receptor channels in cultured rat hippocampal neurons. <i>Journal of Neuroscience Research</i> , <b>2005</b> , 80, 491-500	4.4	19
66	The Transcriptional Modulator Interferon-Related Developmental Regulator 1 in Osteoblasts Suppresses Bone Formation and Promotes Bone Resorption. <i>Journal of Bone and Mineral Research</i> , <b>2016</b> , 31, 573-84	6.3	19
65	Inhibition of the glutamine transporter SNAT1 confers neuroprotection in mice by modulating the mTOR-autophagy system. <i>Communications Biology</i> , <b>2019</b> , 2, 346	6.7	18
64	A protein-protein interaction of stress-responsive myosin VI endowed to inhibit neural progenitor self-replication with RNA binding protein, TLS, in murine hippocampus. <i>Journal of Neurochemistry</i> , <b>2009</b> , 110, 1457-68	6	18
63	A possible pivotal role of mitochondrial free calcium in neurotoxicity mediated by N-methyl-d-aspartate receptors in cultured rat hippocampal neurons. <i>Neurochemistry International</i> , <b>2011</b> , 59, 10-20	4.4	17
62	Glutamate preferentially suppresses osteoblastogenesis than adipogenesis through the cystine/glutamate antiporter in mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 652-657	7	17
61	Possible promotion of neuronal differentiation in fetal rat brain neural progenitor cells after sustained exposure to static magnetism. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 2406-17	4.4	17
60	Interference by adrenaline with chondrogenic differentiation through suppression of gene transactivation mediated by Sox9 family members. <i>Bone</i> , <b>2009</b> , 45, 568-78	4.7	17
59	Serine racemase suppresses chondrogenic differentiation in cartilage in a Sox9-dependent manner. <i>Journal of Cellular Physiology</i> , <b>2008</b> , 215, 320-8	7	17
58	A negative correlation between expression profiles of runt-related transcription factor-2 and cystine/glutamate antiporter xCT subunit in ovariectomized mouse bone. <i>Journal of Pharmacological Sciences</i> , <b>2011</b> , 115, 309-19	3.7	16
57	A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation. <i>Nature Communications</i> , <b>2020</b> , 11, 2289	17.4	15
56	Osteoblast protects osteoclast devoid of sodium-dependent vitamin C transporters from oxidative cytotoxicity of ascorbic acid. <i>European Journal of Pharmacology</i> , <b>2007</b> , 575, 1-11	5.3	15
55	Differential regulation of cellular maturation in chondrocytes and osteoblasts by glycine. <i>Cell and Tissue Research</i> , <b>2008</b> , 333, 91-103	4.2	15
54	Uptake of [3H]L-serine in rat brain synaptosomal fractions. <i>Brain Research</i> , <b>2003</b> , 983, 36-47	3.7	15

53	Transcriptional Modulator Ifrd1 Regulates Osteoclast Differentiation through Enhancing the NF- $\kappa$ B/NFATc1 Pathway. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 2451-63	4.8	15
52	Glutamatergic neurons in the medial prefrontal cortex mediate the formation and retrieval of cocaine-associated memories in mice. <i>Addiction Biology</i> , <b>2020</b> , 25, e12723	4.6	15
51	ATF3 controls proliferation of osteoclast precursor and bone remodeling. <i>Scientific Reports</i> , <b>2016</b> , 6, 30918	4.9	14
50	The MAPK Erk5 is necessary for proper skeletogenesis involving a Smurf-Smad-Sox9 molecular axis. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	13
49	Postnatal Runx2 deletion leads to low bone mass and adipocyte accumulation in mice bone tissues. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 516, 1229-1233	3.4	13
48	Transferrin receptor-1 suppresses neurite outgrowth in neuroblastoma Neuro2A cells. <i>Neurochemistry International</i> , <b>2012</b> , 60, 448-57	4.4	13
47	Induced tolerance to glutamate neurotoxicity through down-regulation of NR2 subunits of N-methyl-D-aspartate receptors in cultured rat striatal neurons. <i>Journal of Neuroscience Research</i> , <b>2010</b> , 88, 2177-87	4.4	13
46	Runx2 is required for postnatal intervertebral disc tissue growth and development. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 6679-6687	7	13
45	Core Binding Factor $\beta$ Expression in Ovarian Granulosa Cells Is Essential for Female Fertility. <i>Endocrinology</i> , <b>2018</b> , 159, 2094-2109	4.8	12
44	Glutamate is a determinant of cellular proliferation through modulation of nuclear factor E2 p45-related factor-2 expression in osteoblastic MC3T3-E1 cells. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 105-14	7	12
43	Physiological role of urothelial cancer-associated one long noncoding RNA in human skeletogenic cell differentiation. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 4825-4840	7	12
42	RUNX2 Promotes Malignant Progression in Glioma. <i>Neurochemical Research</i> , <b>2018</b> , 43, 2047-2054	4.6	12
41	Type IV collagen $\beta$ chain is a regulator of keratin 10 in keratinization of oral mucosal epithelium. <i>Scientific Reports</i> , <b>2018</b> , 8, 2612	4.9	11
40	Selective inhibition by ethanol of mitochondrial calcium influx mediated by uncoupling protein-2 in relation to N-methyl-D-aspartate cytotoxicity in cultured neurons. <i>PLoS ONE</i> , <b>2013</b> , 8, e69718	3.7	11
39	Positive regulation by GABA(B)R1 subunit of leptin expression through gene transactivation in adipocytes. <i>PLoS ONE</i> , <b>2011</b> , 6, e20167	3.7	11
38	Oral administration of phenolic antidiarrheic ingredients prevents ovariectomy-induced bone loss. <i>Biochemical Pharmacology</i> , <b>2007</b> , 73, 385-93	6	11
37	Daily oral intake of theanine prevents the decline of 5-bromo-2-Deoxyuridine incorporation in hippocampal dentate gyrus with concomitant alleviation of behavioral abnormalities in adult mice with severe traumatic stress. <i>Journal of Pharmacological Sciences</i> , <b>2015</b> , 127, 292-7	3.7	10
36	Requirement of both NR3A and NR3B subunits for dominant negative properties on Ca <sup>2+</sup> mobilization mediated by acquired N-methyl-D-aspartate receptor channels into mitochondria. <i>Neurochemistry International</i> , <b>2010</b> , 57, 730-7	4.4	10

35	Positive regulation by $\gamma$ -aminobutyric acid B receptor subunit-1 of chondrogenesis through acceleration of nuclear translocation of activating transcription factor-4. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33293-303	5.4	10
34	Upregulation of Slc38a1 Gene Along with Promotion of Neurosphere Growth and Subsequent Neuronal Specification in Undifferentiated Neural Progenitor Cells Exposed to Theanine. <i>Neurochemical Research</i> , <b>2016</b> , 41, 5-15	4.6	9
33	Runx2 function in cells of neural crest origin during intramembranous ossification. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 509, 1028-1033	3.4	9
32	Possible activation by the green tea amino acid theanine of mammalian target of rapamycin signaling in undifferentiated neural progenitor cells. <i>Biochemistry and Biophysics Reports</i> , <b>2016</b> , 5, 89-95	2.2	9
31	Osteoclastogenesis is negatively regulated by D-serine produced by osteoblasts. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 3477-87	7	9
30	Protective upregulation of activating transcription factor-3 against glutamate neurotoxicity in neuronal cells under ischemia. <i>Journal of Neuroscience Research</i> , <b>2016</b> , 94, 378-88	4.4	8
29	Establishment of a tTA-dependent photoactivatable Cre recombinase knock-in mouse model for optogenetic genome engineering. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 526, 213-217	3.4	7
28	Synthesis and evaluation of radioiodinated 1-[2-[5-(2-methoxyethoxy)-1H-benzo[d]imidazol-1-yl]quinolin-8-yl]piperidin-4-amine derivatives for platelet-derived growth factor receptor $\alpha$ (PDGFR $\alpha$ ) imaging. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 5576-5585	3.4	7
27	Possible modulation of process extension by N-methyl-D-aspartate receptor expressed in osteocytic MLO-Y4 cells. <i>Journal of Pharmacological Sciences</i> , <b>2012</b> , 119, 112-6	3.7	7
26	Negative correlation between Per1 and Sox6 expression during chondrogenic differentiation in pre-chondrocytic ATDC5 cells. <i>Journal of Pharmacological Sciences</i> , <b>2013</b> , 122, 318-25	3.7	7
25	Gradual downregulation of protein expression of the partner GABA(B)R2 subunit during postnatal brain development in mice defective of GABA(B)R1 subunit. <i>Journal of Pharmacological Sciences</i> , <b>2011</b> , 115, 45-55	3.7	7
24	Negative regulation of osteoblastogenesis through downregulation of runt-related transcription factor-2 in osteoblastic MC3T3-E1 cells with stable overexpression of the cystine/glutamate antiporter xCT subunit. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 2953-64	7	7
23	Design, synthesis, and biological evaluation of radioiodinated benzo[d]imidazole-quinoline derivatives for platelet-derived growth factor receptor $\alpha$ (PDGFR $\alpha$ ) imaging. <i>Bioorganic and Medicinal Chemistry</i> , <b>2019</b> , 27, 383-393	3.4	7
22	Bone Marrow Cells Inhibit BMP-2-Induced Osteoblast Activity in the Marrow Environment. <i>Journal of Bone and Mineral Research</i> , <b>2019</b> , 34, 327-332	6.3	7
21	The transcriptional modulator Irf1 controls PGC-1 $\alpha$ expression under short-term adrenergic stimulation in brown adipocytes. <i>FEBS Journal</i> , <b>2017</b> , 284, 784-795	5.7	6
20	Radiobrominated benzimidazole-quinoline derivatives as Platelet-derived growth factor receptor beta (PDGFR $\beta$ ) imaging probes. <i>Scientific Reports</i> , <b>2018</b> , 8, 10369	4.9	6
19	Upregulation of Runt-Related Transcription Factor-2 Through CCAAT Enhancer Binding Protein-1 Signaling Pathway in Microglial BV-2 Cells Exposed to ATP. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 2510-21	7.21	6
18	Potential interactions of calcium-sensitive reagents with zinc ion in different cultured cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127421	3.7	6

17	Constitutive and functional expression of runt-related transcription factor-2 by microglial cells. <i>Neurochemistry International</i> , <b>2014</b> , 74, 24-35	4.4	6
16	Preferential inhibition by antidiarrheic 2-methoxy-4-methylphenol of Ca(2+) influx across acquired N-methyl-D-aspartate receptor channels composed of NR1/NR2B subunit assembly. <i>Journal of Neuroscience Research</i> , <b>2010</b> , 88, 2483-93	4.4	6
15	RUNX2 regulates leukemic cell metabolism and chemotaxis in high-risk T cell acute lymphoblastic leukemia. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	6
14	Possible involvement of mitochondrial uncoupling protein-2 in cytotoxicity mediated by acquired N-methyl-D-aspartate receptor channels. <i>Neurochemistry International</i> , <b>2012</b> , 61, 498-505	4.4	5
13	Myosin VI reduces proliferation, but not differentiation, in pluripotent P19 cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e63947	3.7	5
12	BMP-2/BTCP Local Delivery for Bone Regeneration in MRONJ-Like Mouse Model. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
11	PRRX1 promotes malignant properties in human osteosarcoma. <i>Translational Oncology</i> , <b>2021</b> , 14, 100960	6.9	5
10	Core Binding Factors are essential for ovulation, luteinization, and female fertility in mice. <i>Scientific Reports</i> , <b>2020</b> , 10, 9921	4.9	4
9	Delayed mitochondrial membrane potential disruption by ATP in cultured rat hippocampal neurons exposed to N-methyl-D-aspartate. <i>Journal of Pharmacological Sciences</i> , <b>2012</b> , 119, 20-9	3.7	4
8	Possible expression of a particular gamma-aminobutyric acid transporter isoform responsive to upregulation by hyperosmolarity in rat calvarial osteoblasts. <i>European Journal of Pharmacology</i> , <b>2006</b> , 550, 24-32	5.3	4
7	Glucose Uptake and Runx2 Synergize to Orchestrate Osteoblast Differentiation and Bone Formation. <i>Cell</i> , <b>2015</b> , 162, 1169	56.2	3
6	Induction and expansion of human PRRX1 limb-bud-like mesenchymal cells from pluripotent stem cells. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 926-940	19	3
5	Nuclear condensation of cyclic adenosine monophosphate responsive element-binding protein in discrete murine brain structures. <i>Journal of Neuroscience Research</i> , <b>2005</b> , 80, 667-76	4.4	2
4	Oncogenic potential of human pluripotent stem cell-derived lung organoids with HER2 overexpression. <i>International Journal of Cancer</i> , <b>2021</b> , 149, 1593-1604	7.5	2
3	Selective downregulation of N-methyl-D-aspartate receptor (NMDAR) rather than non-NMDAR subunits in ipsilateral cerebral hemispheres in rats with middle cerebral artery occlusion. <i>Japanese Journal of Psychopharmacology</i> , <b>2011</b> , 31, 187-94		1
2	Neuropsychiatric systemic lupus erythematosus: pathophysiology and the future of treatment. <i>International Journal of Clinical Rheumatology</i> , <b>2013</b> , 8, 585-595	1.5	
1	Understanding the mesenchymal stem cell and its application to the study of human pluripotent stem cells. <i>Okayama Igakkai Zasshi</i> , <b>2021</b> , 133, 158-165	0	