

Hiroshi Takayanagi

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.

120
papers

21,151
citations

55
h-index

141
g-index

141
ext. papers

23,989
ext. citations

15.3
avg, IF

7.19
L-index

#	Paper	IF	Citations
120	The fibroblast: An emerging key player in thymic T cell selection. <i>Immunological Reviews</i> , 2021 , 302, 68-85	11.3	2
119	Cytokine profile in patients with chronic non-bacterial osteomyelitis, juvenile idiopathic arthritis, and insulin-dependent diabetes mellitus. <i>Cytokine</i> , 2021 , 143, 155521	4	0
118	RANKL as the master regulator of osteoclast differentiation. <i>Journal of Bone and Mineral Metabolism</i> , 2021 , 39, 13-18	2.9	11
117	Plasma cells promote osteoclastogenesis and periarticular bone loss in autoimmune arthritis. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	6
116	Osteoimmunology as an intrinsic part of immunology. <i>International Immunology</i> , 2021 , 33, 673-678	4.9	1
115	Stepwise cell fate decision pathways during osteoclastogenesis at single-cell resolution. <i>Nature Metabolism</i> , 2020 , 2, 1382-1390	14.6	10
114	Chd4 choreographs self-antigen expression for central immune tolerance. <i>Nature Immunology</i> , 2020 , 21, 892-901	19.1	21
113	Osteoimmunology - Bidirectional dialogue and inevitable union of the fields of bone and immunity. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2020 , 96, 159-169	4	5
112	Retroviral Gene Transduction into T Cell Progenitors for Analysis of T Cell Development in the Thymus. <i>Methods in Molecular Biology</i> , 2020 , 2111, 193-203	1.4	0
111	T Cells in The Regulation of Bone Metabolism 2020 , 12-19		
110	OPG Production Matters Where It Happened. <i>Cell Reports</i> , 2020 , 32, 108124	10.6	23
109	Butyrophilin-like proteins display combinatorial diversity in selecting and maintaining signature intraepithelial T cell compartments. <i>Nature Communications</i> , 2020 , 11, 3769	17.4	15
108	Fibroblasts as a source of self-antigens for central immune tolerance. <i>Nature Immunology</i> , 2020 , 21, 1172-1180	19.1	25
107	Suppression of hematopoietic cell kinase ameliorates the bone destruction associated with inflammation. <i>Modern Rheumatology</i> , 2020 , 30, 85-92	3.3	3
106	Non-Epithelial Thymic Stromal Cells: Unsung Heroes in Thymus Organogenesis and T Cell Development. <i>Frontiers in Immunology</i> , 2020 , 11, 620894	8.4	7
105	Soluble RANKL is physiologically dispensable but accelerates tumour metastasis to bone. <i>Nature Metabolism</i> , 2019 , 1, 868-875	14.6	33
104	The role of bone cells in immune regulation during the course of infection. <i>Seminars in Immunopathology</i> , 2019 , 41, 619-626	12	7

103	Osteoimmunology: evolving concepts in bone-immune interactions in health and disease. <i>Nature Reviews Immunology</i> , 2019 , 19, 626-642	36.5	180
102	Stromal Interaction Molecule Deficiency in T Cells Promotes Spontaneous Follicular Helper T Cell Development and Causes Type 2 Immune Disorders. <i>Journal of Immunology</i> , 2019 , 202, 2616-2627	5.3	3
101	T cell receptor signaling for $\gamma\delta$ cell development. <i>Inflammation and Regeneration</i> , 2019 , 39, 6	10.9	26
100	Endoplasmic reticulum mediates mitochondrial transfer within the osteocyte dendritic network. <i>Science Advances</i> , 2019 , 5, eaaw7215	14.3	21
99	Autoregulation of Osteocyte Sema3A Orchestrates Estrogen Action and Counteracts Bone Aging. <i>Cell Metabolism</i> , 2019 , 29, 627-637.e5	24.6	60
98	Efficacy of an orally active small-molecule inhibitor of RANKL in bone metastasis. <i>Bone Research</i> , 2019 , 7, 1	13.3	44
97	Osteoimmunology. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019 , 9,	5.4	33
96	Host defense against oral microbiota by bone-damaging T cells. <i>Nature Communications</i> , 2018 , 9, 701	17.4	123
95	Overview of Osteoimmunology. <i>Calcified Tissue International</i> , 2018 , 102, 503-511	3.9	36
94	Mice lacking all of the Skint family genes. <i>International Immunology</i> , 2018 , 30, 301-309	4.9	7
93	$\gamma\delta$ CR recruits the Syk/PI3K axis to drive proinflammatory differentiation program. <i>Journal of Clinical Investigation</i> , 2018 , 128, 415-426	15.9	22
92	RANKL inhibition -Bone and beyond-. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, SY42-1	0	
91	Osteoclast Biology and Bone Resorption 2018 , 46-53		1
90	Arginine methylation controls the strength of β -family cytokine signaling in T cell maintenance. <i>Nature Immunology</i> , 2018 , 19, 1265-1276	19.1	36
89	Roles of Enhancer RNAs in RANKL-induced Osteoclast Differentiation Identified by Genome-wide Cap-analysis of Gene Expression using CRISPR/Cas9. <i>Scientific Reports</i> , 2018 , 8, 7504	4.9	11
88	Osteoimmunology 2018 , 261-282		1
87	Identification of subepithelial mesenchymal cells that induce IgA and diversify gut microbiota. <i>Nature Immunology</i> , 2017 , 18, 675-682	19.1	87
86	Human thymoproteasome variations influence CD8 T cell selection. <i>Science Immunology</i> , 2017 , 2,	28	14

85	The Mechanisms of T Cell Selection in the Thymus. <i>Trends in Immunology</i> , 2017 , 38, 805-816	14.4	125
84	Identification of a p53 target, CD137L, that mediates growth suppression and immune response of osteosarcoma cells. <i>Scientific Reports</i> , 2017 , 7, 10739	4.9	3
83	Targeted deletion of RANKL in M cell inducer cells by the Col6a1-Cre driver. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 493, 437-443	3.4	9
82	Osteocyte regulation of orthodontic force-mediated tooth movement via RANKL expression. <i>Scientific Reports</i> , 2017 , 7, 8753	4.9	40
81	Osteoimmunology: The Conceptual Framework Unifying the Immune and Skeletal Systems. <i>Physiological Reviews</i> , 2017 , 97, 1295-1349	47.9	206
80	RANK rewires energy homeostasis in lung cancer cells and drives primary lung cancer. <i>Genes and Development</i> , 2017 , 31, 2099-2112	12.6	19
79	Osteoimmunology in Bone Fracture Healing. <i>Current Osteoporosis Reports</i> , 2017 , 15, 367-375	5.4	84
78	LOX Fails to Substitute for RANKL in Osteoclastogenesis. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 434-439	6.3	34
77	IL-17-producing $\gamma\delta$ T cells enhance bone regeneration. <i>Nature Communications</i> , 2016 , 7, 10928	17.4	189
76	Sepsis-Induced Osteoblast Ablation Causes Immunodeficiency. <i>Immunity</i> , 2016 , 44, 1434-43	32.3	69
75	RANKL expressed on synovial fibroblasts is primarily responsible for bone erosions during joint inflammation. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 1187-95	2.4	116
74	Glucocorticoid impairs cell-cell communication by autophagy-mediated degradation of connexin 43 in osteocytes. <i>Oncotarget</i> , 2016 , 7, 26966-78	3.3	41
73	Intravital imaging of Ca(2+) signals in lymphocytes of Ca(2+) biosensor transgenic mice: indication of autoimmune diseases before the pathological onset. <i>Scientific Reports</i> , 2016 , 6, 18738	4.9	23
72	DNA methyltransferase 3a regulates osteoclast differentiation by coupling to an S-adenosylmethionine-producing metabolic pathway. <i>Nature Medicine</i> , 2015 , 21, 281-7	50.5	143
71	Phosphoproteomic analysis of kinase-deficient mice reveals multiple TAK1 targets in osteoclast differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 1284-90	3.4	9
70	Immune complexes regulate bone metabolism through FcR β signalling. <i>Nature Communications</i> , 2015 , 6, 6637	17.4	80
69	Fezf2 Orchestrates a Thymic Program of Self-Antigen Expression for Immune Tolerance. <i>Cell</i> , 2015 , 163, 975-87	56.2	208
68	Arthritogenic T cells in autoimmune arthritis. <i>International Journal of Biochemistry and Cell Biology</i> , 2015 , 58, 92-6	5.6	21

67	The thymic cortical epithelium determines the TCR repertoire of IL-17-producing $\gamma\delta$ cells. <i>EMBO Reports</i> , 2015 , 16, 638-53	6.5	36
66	SnapShot: Osteoimmunology. <i>Cell Metabolism</i> , 2015 , 21, 502.e1	24.6	20
65	Inhibition of the TNF Family Cytokine RANKL Prevents Autoimmune Inflammation in the Central Nervous System. <i>Immunity</i> , 2015 , 43, 1174-85	32.3	44
64	Regulatory T cells in Arthritis. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 136, 207-15	4	19
63	Osteoimmunology in 2014: Two-faced immunology-from osteogenesis to bone resorption. <i>Nature Reviews Rheumatology</i> , 2015 , 11, 74-6	8.1	39
62	Pathogenic conversion of Foxp3+ T cells into TH17 cells in autoimmune arthritis. <i>Nature Medicine</i> , 2014 , 20, 62-8	50.5	679
61	The orally available Btk inhibitor ibrutinib (PCI-32765) protects against osteoclast-mediated bone loss. <i>Bone</i> , 2014 , 60, 8-15	4.7	45
60	The immune system, bone and RANKL. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 561, 118-23	4.1	67
59	Runx2-l isoform contributes to fetal bone formation even in the absence of specific N-terminal amino acids. <i>PLoS ONE</i> , 2014 , 9, e108294	3.7	14
58	Global epigenomic analysis indicates protocadherin-7 activates osteoclastogenesis by promoting cell-cell fusion. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 455, 305-11	3.4	12
57	Immunology and bone. <i>Journal of Biochemistry</i> , 2013 , 154, 29-39	3.1	80
56	Osteoprotection by semaphorin 3A. <i>Nature</i> , 2012 , 485, 69-74	50.4	376
55	Class IA phosphatidylinositol 3-kinase regulates osteoclastic bone resorption through protein kinase B-mediated vesicle transport. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 2464-75	6.3	28
54	Bone cell communication factors and Semaphorins. <i>BoneKEy Reports</i> , 2012 , 1, 183		64
53	New developments in osteoimmunology. <i>Nature Reviews Rheumatology</i> , 2012 , 8, 684-9	8.1	158
52	New insights into osteoclastogenic signaling mechanisms. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 582-90	8.8	230
51	Autoimmune arthritis: the interface between the immune system and joints. <i>Advances in Immunology</i> , 2012 , 115, 45-71	5.6	63
50	Inhibitory effect of chloroquine on bone resorption reveals the key role of lysosomes in osteoclast differentiation and function. <i>Inflammation and Regeneration</i> , 2012 , 32, 222-231	10.9	9

49	Stage-specific functions of leukemia/lymphoma-related factor (LRF) in the transcriptional control of osteoclast development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2561-6	11.5	42
48	Inflammation and bone destruction in arthritis: synergistic activity of immune and mesenchymal cells in joints. <i>Frontiers in Immunology</i> , 2012 , 3, 77	8.4	69
47	The role of the BH3-only protein Noxa in bone homeostasis. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 410, 620-5	3.4	10
46	Evidence for osteocyte regulation of bone homeostasis through RANKL expression. <i>Nature Medicine</i> , 2011 , 17, 1231-4	50.5	1310
45	Suppression of bone formation by osteoclastic expression of semaphorin 4D. <i>Nature Medicine</i> , 2011 , 17, 1473-80	50.5	345
44	Potential molecular targets for suppressing Th17 development. <i>Inflammation and Regeneration</i> , 2011 , 31, 354-360	10.9	
43	I κ B ζ regulates T(H)17 development by cooperating with ROR nuclear receptors. <i>Nature</i> , 2010 , 464, 1381-5	50.4	320
42	New immune connections in osteoclast formation. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1192, 117-23	6.5	65
41	Blimp1-mediated repression of negative regulators is required for osteoclast differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3117-22	11.5	124
40	Ly49Q, an ITIM-bearing NK receptor, positively regulates osteoclast differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 432-8	3.4	21
39	The unexpected link between osteoclasts and the immune system. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 658, 61-8	3.6	26
38	Maf promotes osteoblast differentiation in mice by mediating the age-related switch in mesenchymal cell differentiation. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3455-65	15.9	120
37	Rheumatoid arthritis associated with osteopetrosis. <i>Modern Rheumatology</i> , 2009 , 19, 687-690	3.3	15
36	Osteoimmunology: crosstalk between the immune and bone systems. <i>Journal of Clinical Immunology</i> , 2009 , 29, 555-67	5.7	156
35	Interferon regulatory factor-8 regulates bone metabolism by suppressing osteoclastogenesis. <i>Nature Medicine</i> , 2009 , 15, 1066-71	50.5	219
34	Ca ²⁺ -NFATc1 signaling is an essential axis of osteoclast differentiation. <i>Immunological Reviews</i> , 2009 , 231, 241-56	11.3	295
33	Osteoimmunology and the effects of the immune system on bone. <i>Nature Reviews Rheumatology</i> , 2009 , 5, 667-76	8.1	336
32	Cathepsin K-dependent toll-like receptor 9 signaling revealed in experimental arthritis. <i>Science</i> , 2008 , 319, 624-7	33.3	377

31	The tumor necrosis factor family receptors RANK and CD40 cooperatively establish the thymic medullary microenvironment and self-tolerance. <i>Immunity</i> , 2008 , 29, 423-37	32.3	365
30	The cytokine RANKL produced by positively selected thymocytes fosters medullary thymic epithelial cells that express autoimmune regulator. <i>Immunity</i> , 2008 , 29, 438-50	32.3	331
29	Tyrosine kinases Btk and Tec regulate osteoclast differentiation by linking RANK and ITAM signals. <i>Cell</i> , 2008 , 132, 794-806	56.2	250
28	Scientific basis for the efficacy of combined use of antirheumatic drugs against bone destruction in rheumatoid arthritis. <i>Modern Rheumatology</i> , 2007 , 17, 17-23	3.3	30
27	Osteoimmunology: shared mechanisms and crosstalk between the immune and bone systems. <i>Nature Reviews Immunology</i> , 2007 , 7, 292-304	36.5	1399
26	The role of NFAT in osteoclast formation. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1116, 227-37	5	330
25	Interaction between the immune system and bone metabolism: an emerging field of osteoimmunology. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2007 , 83, 136-43	4	10
24	Estrogen prevents bone loss via estrogen receptor alpha and induction of Fas ligand in osteoclasts. <i>Cell</i> , 2007 , 130, 811-23	56.2	729
23	The molecular understanding of osteoclast differentiation. <i>Bone</i> , 2007 , 40, 251-64	4.7	966
22	Novel signaling pathways and therapeutic targets in osteoclasts. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 602, 93-6	3.6	5
21	Th17 functions as an osteoclastogenic helper T cell subset that links T cell activation and bone destruction. <i>Journal of Experimental Medicine</i> , 2006 , 203, 2673-82	16.6	1128
20	Regulation of osteoclast differentiation and function by the CaMK-CREB pathway. <i>Nature Medicine</i> , 2006 , 12, 1410-6	50.5	265
19	Inflammatory bone destruction and osteoimmunology. <i>Journal of Periodontal Research</i> , 2005 , 40, 287-93	4.3	197
18	Interplay between interferon and other cytokine systems in bone metabolism. <i>Immunological Reviews</i> , 2005 , 208, 181-93	11.3	139
17	Stat1-mediated cytoplasmic attenuation in osteoimmunology. <i>Journal of Cellular Biochemistry</i> , 2005 , 94, 232-40	4.7	32
16	Mechanistic insight into osteoclast differentiation in osteoimmunology. <i>Journal of Molecular Medicine</i> , 2005 , 83, 170-9	5.5	320
15	Autoamplification of NFATc1 expression determines its essential role in bone homeostasis. <i>Journal of Experimental Medicine</i> , 2005 , 202, 1261-9	16.6	657
14	Osteoimmunological insight into bone damage in rheumatoid arthritis. <i>Modern Rheumatology</i> , 2005 , 15, 225-231	3.3	12

13	Osteoimmunological insight into bone damage in rheumatoid arthritis. <i>Modern Rheumatology</i> , 2005 , 15, 225-31	3.3	7
12	Essential role of p38 mitogen-activated protein kinase in cathepsin K gene expression during osteoclastogenesis through association of NFATc1 and PU.1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 45969-79	5.4	325
11	Costimulatory signals mediated by the ITAM motif cooperate with RANKL for bone homeostasis. <i>Nature</i> , 2004 , 428, 758-63	50.4	691
10	RANKL maintains bone homeostasis through c-Fos-dependent induction of interferon-beta. <i>Nature</i> , 2002 , 416, 744-9	50.4	700
9	Signaling crosstalk between RANKL and interferons in osteoclast differentiation. <i>Arthritis Research</i> , 2002 , 4 Suppl 3, S227-32		119
8	Induction and activation of the transcription factor NFATc1 (NFAT2) integrate RANKL signaling in terminal differentiation of osteoclasts. <i>Developmental Cell</i> , 2002 , 3, 889-901	10.2	1920
7	Antiviral response by natural killer cells through TRAIL gene induction by IFN-alpha/beta. <i>European Journal of Immunology</i> , 2001 , 31, 3138-46	6.1	213
6	Involvement of receptor activator of nuclear factor kappaB ligand/osteoclast differentiation factor in osteoclastogenesis from synoviocytes in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2000 , 43, 259-69		531
5	T-cell-mediated regulation of osteoclastogenesis by signalling cross-talk between RANKL and IFN-gamma. <i>Nature</i> , 2000 , 408, 600-5	50.4	1083
4	In vitro and in vivo suppression of osteoclast function by adenovirus vector-induced csk gene. <i>Journal of Bone and Mineral Research</i> , 2000 , 15, 41-51	6.3	34
3	Modulation of osteoclast function by adenovirus vector-induced epidermal growth factor receptor. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 1714-20	6.3	44
2	A new mechanism of bone destruction in rheumatoid arthritis: synovial fibroblasts induce osteoclastogenesis. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 240, 279-86	3.4	166
1	Mechanisms of joint destruction in rheumatoid arthritis: Immune cell-fibroblast-bone interactions. <i>Nature Reviews Rheumatology</i> ,	8.1	6