

# Steven L Teitelbaum

## List of Publications by Citations

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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.

181 papers	17,229 citations	68 h-index	129 g-index
194 ext. papers	18,667 ext. citations	10.6 avg, IF	6.65 L-index

#	Paper	IF	Citations
181	Genetic regulation of osteoclast development and function. <i>Nature Reviews Genetics</i> , <b>2003</b> , 4, 638-49	30.1	1297
180	TNF-alpha induces osteoclastogenesis by direct stimulation of macrophages exposed to permissive levels of RANK ligand. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 1481-8	15.9	1021
179	Beta3-integrin-deficient mice are a model for Glanzmann thrombasthenia showing placental defects and reduced survival. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 103, 229-38	15.9	581
178	Mice lacking beta3 integrins are osteosclerotic because of dysfunctional osteoclasts. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 433-40	15.9	555
177	Osteoclasts: what do they do and how do they do it?. <i>American Journal of Pathology</i> , <b>2007</b> , 170, 427-35	5.8	518
176	IL-1 mediates TNF-induced osteoclastogenesis. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 282-290	15.9	477
175	Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. <i>Nature Medicine</i> , <b>2008</b> , 14, 306-14	50.5	474
174	Osteopetrosis. <i>New England Journal of Medicine</i> , <b>2004</b> , 351, 2839-49	59.2	418
173	Renal osteodystrophy. <i>New England Journal of Medicine</i> , <b>1995</b> , 333, 166-74	59.2	410
172	Accelerated bone mineral loss in HIV-infected patients receiving potent antiretroviral therapy. <i>Aids</i> , <b>2000</b> , 14, F63-7	3.5	386
171	Successful bone-marrow transplantation for infantile malignant osteopetrosis. <i>New England Journal of Medicine</i> , <b>1980</b> , 302, 701-8	59.2	379
170	Tumor necrosis factor-alpha mediates orthopedic implant osteolysis. <i>American Journal of Pathology</i> , <b>1999</b> , 154, 203-10	5.8	354
169	Autophagy proteins regulate the secretory component of osteoclastic bone resorption. <i>Developmental Cell</i> , <b>2011</b> , 21, 966-74	10.2	329
168	Glucocorticoids suppress bone formation via the osteoclast. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 2152-60	15.9	281
167	The osteoclast: friend or foe?. <i>Annual Review of Pathology: Mechanisms of Disease</i> , <b>2008</b> , 3, 457-84	34	266
166	IL-1 mediates TNF-induced osteoclastogenesis. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 282-90	15.9	260
165	alphavbeta3 and macrophage colony-stimulating factor: partners in osteoclast biology. <i>Immunological Reviews</i> , <b>2005</b> , 208, 88-105	11.3	254

164	Osteoclasts: New Insights. <i>Bone Research</i> , <b>2013</b> , 1, 11-26	13.3	246
163	Vav3 regulates osteoclast function and bone mass. <i>Nature Medicine</i> , <b>2005</b> , 11, 284-90	50.5	245
162	Syk, c-Src, the alphavbeta3 integrin, and ITAM immunoreceptors, in concert, regulate osteoclastic bone resorption. <i>Journal of Cell Biology</i> , <b>2007</b> , 176, 877-88	7.3	234
161	The IkappaB function of NF-kappaB2 p100 controls stimulated osteoclastogenesis. <i>Journal of Experimental Medicine</i> , <b>2003</b> , 198, 771-81	16.6	234
160	M-CSF mediates TNF-induced inflammatory osteolysis. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 3418-27	5.9	219
159	SHIP-deficient mice are severely osteoporotic due to increased numbers of hyper-resorptive osteoclasts. <i>Nature Medicine</i> , <b>2002</b> , 8, 943-9	50.5	214
158	NOTCH1 regulates osteoclastogenesis directly in osteoclast precursors and indirectly via osteoblast lineage cells. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 6509-18	5.4	173
157	Interleukin-4 reversibly inhibits osteoclastogenesis via inhibition of NF-kappa B and mitogen-activated protein kinase signaling. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 6622-30	5.4	165
156	Postmenopausal osteoporosis. A heterogeneous disorder as assessed by histomorphometric analysis of Iliac crest bone from untreated patients. <i>American Journal of Medicine</i> , <b>1982</b> , 72, 193-202	2.4	162
155	Marrow stromal cells and osteoclast precursors differentially contribute to TNF-alpha-induced osteoclastogenesis in vivo. <i>Journal of Immunology</i> , <b>2004</b> , 173, 4838-46	5.3	152
154	Dynamic changes in the osteoclast cytoskeleton in response to growth factors and cell attachment are controlled by beta3 integrin. <i>Journal of Cell Biology</i> , <b>2003</b> , 162, 499-509	7.3	150
153	c-Fms and the $\alpha\beta$ integrin collaborate during osteoclast differentiation. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 749-758	15.9	147
152	Mice deficient in Abl are osteoporotic and have defects in osteoblast maturation. <i>Nature Genetics</i> , <b>2000</b> , 24, 304-8	36.3	139
151	Crystal structure of the TRANCE/RANKL cytokine reveals determinants of receptor-ligand specificity. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 108, 971-9	15.9	139
150	Characterization of the osteoclast ruffled border chloride channel and its role in bone resorption. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 18636-43	5.4	138
149	Tumor Necrosis Factor Receptors Types 1 and 2 Differentially Regulate Osteoclastogenesis. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27307-27310	5.4	127
148	Tumor necrosis factor-alpha activation of nuclear transcription factor-kappaB in marrow macrophages is mediated by c-Src tyrosine phosphorylation of Ikappa Balpha. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 29417-23	5.4	125
147	Inflammatory osteolysis: a conspiracy against bone. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 2030-2039	5.9	124

146	Rho family GTPases regulate VEGF-stimulated endothelial cell motility. <i>Experimental Cell Research</i> , <b>2001</b> , 269, 73-87	4.2	121
145	A Glanzmann's mutation in beta 3 integrin specifically impairs osteoclast function. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 107, 1137-44	15.9	120
144	The osteoclast and its unique cytoskeleton. <i>Annals of the New York Academy of Sciences</i> , <b>2011</b> , 1240, 14-7	6.5	111
143	Osteoclasts; culprits in inflammatory osteolysis. <i>Arthritis Research and Therapy</i> , <b>2006</b> , 8, 201	5.7	107
142	Soluble RANKL and risk of nontraumatic fracture. <i>JAMA - Journal of the American Medical Association</i> , <b>2004</b> , 291, 1108-13	27.4	106
141	Receptor activator of nuclear factor-kappa b ligand activates nuclear factor-kappa b in osteoclast precursors. <i>Endocrinology</i> , <b>2001</b> , 142, 1290-5	4.8	105
140	Effects of hypervitaminosis A on the bone and mineral metabolism of the rat. <i>Endocrinology</i> , <b>1988</b> , 122, 2933-9	4.8	104
139	Inflammatory carcinoma of the breast. A pathologic definition. <i>Cancer</i> , <b>1974</b> , 33, 1045-7	6.4	98
138	DAP12 couples c-Fms activation to the osteoclast cytoskeleton by recruitment of Syk. <i>Molecular Cell</i> , <b>2008</b> , 31, 422-31	17.6	97
137	Mouse genome-wide association and systems genetics identify Asxl2 as a regulator of bone mineral density and osteoclastogenesis. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002038	6	95
136	Synaptotagmin VII regulates bone remodeling by modulating osteoclast and osteoblast secretion. <i>Developmental Cell</i> , <b>2008</b> , 14, 914-25	10.2	94
135	The HIV protease inhibitor ritonavir blocks osteoclastogenesis and function by impairing RANKL-induced signaling. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 206-13	15.9	94
134	Cdc42 regulates bone modeling and remodeling in mice by modulating RANKL/M-CSF signaling and osteoclast polarization. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 1981-93	15.9	93
133	Bone turnover in bone biopsies of patients with low-energy cortical fractures receiving bisphosphonates: a case series. <i>Calcified Tissue International</i> , <b>2009</b> , 85, 37-44	3.9	89
132	High dose M-CSF partially rescues the Dap12 <sup>-/-</sup> osteoclast phenotype. <i>Journal of Cellular Biochemistry</i> , <b>2003</b> , 90, 871-83	4.7	89
131	Transforming growth factor-beta up-regulates the beta 5 integrin subunit expression via Sp1 and Smad signaling. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36400-6	5.4	89
130	Osteoclasts and arthritis. <i>Journal of Bone and Mineral Research</i> , <b>2009</b> , 24, 1142-6	6.3	86
129	Substrate recognition by osteoclast precursors induces C-src/microtubule association. <i>Journal of Cell Biology</i> , <b>1997</b> , 137, 247-58	7.3	86

128	Osteoclasts, integrins, and osteoporosis. <i>Journal of Bone and Mineral Metabolism</i> , <b>2000</b> , 18, 344-9	2.9	86
127	RANKL employs distinct binding modes to engage RANK and the osteoprotegerin decoy receptor. <i>Structure</i> , <b>2012</b> , 20, 1971-82	5.2	85
126	Osteoclasts, macrophages, and the molecular mechanisms of bone resorption. <i>Journal of Leukocyte Biology</i> , <b>1997</b> , 61, 381-8	6.5	85
125	Direct inhibition of NF-kappa B blocks bone erosion associated with inflammatory arthritis. <i>Journal of Immunology</i> , <b>2003</b> , 171, 5547-53	5.3	84
124	Significant developmental elevation in serum parathyroid hormone levels in a large kindred with familial benign (hypocalciuric) hypercalcemia. <i>American Journal of Medicine</i> , <b>1992</b> , 93, 247-58	2.4	80
123	c-Fms and the alphavbeta3 integrin collaborate during osteoclast differentiation. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 749-58	15.9	78
122	Interleukin 4 inhibits murine osteoclast formation in vitro. <i>Journal of Cellular Biochemistry</i> , <b>1991</b> , 47, 272-7	4.7	77
121	IL-17 mediates estrogen-deficient osteoporosis in an Act1-dependent manner. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 2895-902	4.7	76
120	Rab3D regulates a novel vesicular trafficking pathway that is required for osteoclastic bone resorption. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 5253-69	4.8	76
119	Rac deletion in osteoclasts causes severe osteopetrosis. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 3811-21	5.3	75
118	Unoccupied alpha(v)beta3 integrin regulates osteoclast apoptosis by transmitting a positive death signal. <i>Molecular Endocrinology</i> , <b>2005</b> , 19, 771-80		74
117	RANKing c-Jun in osteoclast development. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 463-465	15.9	73
116	FHL2 inhibits the activated osteoclast in a TRAF6-dependent manner. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 2742-51	15.9	73
115	TAT fusion proteins containing tyrosine 42-deleted IkappaBalpha arrest osteoclastogenesis. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 30499-503	5.4	72
114	Generation of avian cells resembling osteoclasts from mononuclear phagocytes. <i>Endocrinology</i> , <b>1991</b> , 128, 2324-35	4.8	71
113	Talin1 and Rap1 are critical for osteoclast function. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 830-44	4.8	65
112	Integrins, growth factors, and the osteoclast cytoskeleton. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1192, 27-31	6.5	58
111	Postmenopausal osteoporosis, T cells, and immune dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 16711-2	11.5	57

110	Regulation of alphaVbeta3 and alphaVbeta5 integrins by dexamethasone in normal human osteoblastic cells. <i>Journal of Cellular Biochemistry</i> , <b>2000</b> , 77, 265-76	4.7	56
109	Do parathyroid hormone and 1,25-dihydroxyvitamin D modulate bone formation in uremia?. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1980</b> , 51, 247-51	5.6	55
108	c-Fms tyrosine 559 is a major mediator of M-CSF-induced proliferation of primary macrophages. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 18980-90	5.4	52
107	Parathyroid hormone inhibits collagen synthesis at both ribonucleic acid and protein levels in rat osteogenic sarcoma cells. <i>Molecular Endocrinology</i> , <b>1989</b> , 3, 232-9		52
106	c-Src links a RANK/ITAM integrin complex to the osteoclast cytoskeleton. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 2943-53	4.8	51
105	SHIP1 negatively regulates proliferation of osteoclast precursors via Akt-dependent alterations in D-type cyclins and p27. <i>Journal of Immunology</i> , <b>2006</b> , 177, 8777-84	5.3	51
104	Tumor necrosis factor-alpha mediates polymethylmethacrylate particle-induced NF-kappaB activation in osteoclast precursor cells. <i>Journal of Orthopaedic Research</i> , <b>2002</b> , 20, 174-81	3.8	51
103	Stem cells and osteoporosis therapy. <i>Cell Stem Cell</i> , <b>2010</b> , 7, 553-4	18	47
102	Glucocorticoids and the osteoclast. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1116, 335-9	6.5	47
101	Critical role of beta3 integrin in experimental postmenopausal osteoporosis. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 2116-23	6.3	46
100	Interleukin-4 induces expression of the integrin alpha v beta 3 via transactivation of the beta 3 gene. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 4115-20	5.4	46
99	Molecular mechanisms of bone resorption. <i>Journal of Cellular Biochemistry</i> , <b>1995</b> , 59, 1-10	4.7	46
98	Mice Lacking the Integrin 5 Subunit Have Accelerated Osteoclast Maturation and Increased Activity in the Estrogen-Deficient State. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 58-66	6.3	46
97	Noninvasive imaging of osteoclasts in parathyroid hormone-induced osteolysis using a <sup>64</sup> Cu-labeled RGD peptide. <i>Journal of Nuclear Medicine</i> , <b>2007</b> , 48, 311-8	8.9	45
96	Antagonizing Integrin $\beta$ Increases Immunosuppression in Cancer. <i>Cancer Research</i> , <b>2016</b> , 76, 3484-95	10.1	45
95	The LIM protein, Limd1, regulates AP-1 activation through an interaction with Traf6 to influence osteoclast development. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 39-48	5.4	43
94	M-CSF regulates the cytoskeleton via recruitment of a multimeric signaling complex to c-Fms Tyr-559/697/721. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 18991-9	5.4	43
93	Intercellular Mitochondria Transfer to Macrophages Regulates White Adipose Tissue Homeostasis and Is Impaired in Obesity. <i>Cell Metabolism</i> , <b>2021</b> , 33, 270-282.e8	24.6	43

92	Should bisphosphonates be used for long-term treatment of glucocorticoid-induced osteoporosis?. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 325-8		42
91	The Src family kinase, Lyn, suppresses osteoclastogenesis in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 2325-30	11.5	41
90	Partial characterization of a parathyroid hormone-stimulated resorption factor(s) from osteoblast-like cells. <i>Endocrinology</i> , <b>1989</b> , 125, 2075-82	4.8	41
89	Histological analysis of undecalcified thin sections of archeological bone. <i>American Journal of Physical Anthropology</i> , <b>1976</b> , 44, 263-9	2.5	41
88	Juvenile Paget disease: life-long features of a mildly affected young woman. <i>Journal of Bone and Mineral Research</i> , <b>1996</b> , 11, 132-42	6.3	40
87	Absence of Dap12 and the $\alpha\beta$ integrin causes severe osteopetrosis. <i>Journal of Cell Biology</i> , <b>2015</b> , 208, 125-36	7.3	39
86	Hypertrophic chondrocytes produce immunoreactive collagenase in vivo. <i>Connective Tissue Research</i> , <b>1989</b> , 23, 65-73	3.3	39
85	Depression, antidepressants, and bone health in older adults: a systematic review. <i>Journal of the American Geriatrics Society</i> , <b>2014</b> , 62, 1434-41	5.6	37
84	Calpain-6, a target molecule of glucocorticoids, regulates osteoclastic bone resorption via cytoskeletal organization and microtubule acetylation. <i>Journal of Bone and Mineral Research</i> , <b>2011</b> , 26, 657-65	6.3	37
83	Dissection of platelet and myeloid cell defects by conditional targeting of the beta3-integrin subunit. <i>FASEB Journal</i> , <b>2010</b> , 24, 1117-27	0.9	37
82	Tyrosines 559 and 807 in the cytoplasmic tail of the macrophage colony-stimulating factor receptor play distinct roles in osteoclast differentiation and function. <i>Endocrinology</i> , <b>2002</b> , 143, 4868-74	4.8	37
81	Sp1/Sp3 and PU.1 differentially regulate beta(5) integrin gene expression in macrophages and osteoblasts. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 8331-40	5.4	37
80	Granulocyte macrophage-colony stimulating factor reciprocally regulates alphav-associated integrins on murine osteoclast precursors. <i>Molecular Endocrinology</i> , <b>1998</b> , 12, 1955-62		37
79	Recent Advances Toward Understanding Osteoclast Physiology. <i>Clinical Orthopaedics and Related Research</i> , <b>1993</b> , 294, 7-22	2.2	37
78	Osteoclasts and integrins. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1068, 95-9	6.5	36
77	Painful diffuse osteosclerosis after intravenous drug abuse. <i>American Journal of Medicine</i> , <b>1992</b> , 93, 371-81	2.1	36
76	ASXL2 Regulates Glucose, Lipid, and Skeletal Homeostasis. <i>Cell Reports</i> , <b>2015</b> , 11, 1625-37	10.6	34
75	SLP-76 couples Syk to the osteoclast cytoskeleton. <i>Journal of Immunology</i> , <b>2009</b> , 183, 1804-12	5.3	34

74	Expression and regulation of RAB3 proteins in osteoclasts and their precursors. <i>Journal of Bone and Mineral Research</i> , <b>1999</b> , 14, 1855-60	6.3	34
73	Tumor necrosis factor alpha regulates alpha(v)beta5 integrin expression by osteoclast precursors in vitro and in vivo. <i>Endocrinology</i> , <b>2000</b> , 141, 284-90	4.8	33
72	Receptor Activator of Nuclear Factor- $\kappa$ B Ligand Activates Nuclear Factor- $\kappa$ B in Osteoclast Precursors		32
71	Tumor necrosis factor receptor-associated factor 6 is an intranuclear transcriptional coactivator in osteoclasts. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 30861-7	5.4	31
70	PGC1 $\beta$ Organizes the Osteoclast Cytoskeleton by Mitochondrial Biogenesis and Activation. <i>Journal of Bone and Mineral Research</i> , <b>2018</b> , 33, 1114-1125	6.3	30
69	Vinculin regulates osteoclast function. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 13554-64	5.4	30
68	Receptor-mediated uptake of a mannose-6-phosphate bearing glycoprotein by isolated chicken osteoclasts. <i>Journal of Cellular Physiology</i> , <b>1988</b> , 137, 476-82	7	30
67	Cloning and characterization of the murine beta(3) integrin gene promoter: identification of an interleukin-4 responsive element and regulation by STAT-6. <i>Journal of Cellular Biochemistry</i> , <b>2001</b> , 81, 320-32	4.7	29
66	An insulin-sensitizing thiazolidinedione, which minimally activates PPAR $\gamma$ does not cause bone loss. <i>Journal of Bone and Mineral Research</i> , <b>2015</b> , 30, 481-8	6.3	28
65	Defects in osteoblast function but no changes in long-term repopulating potential of hematopoietic stem cells in a mouse chronic inflammatory arthritis model. <i>Blood</i> , <b>2009</b> , 114, 4402-10	2.2	28
64	RANKing c-Jun in osteoclast development. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 463-5	15.9	28
63	Correlating RANK ligand/RANK binding kinetics with osteoclast formation and function. <i>Journal of Cellular Biochemistry</i> , <b>2015</b> , 116, 2476-83	4.7	27
62	Cytoskeletal dysfunction dominates in DAP12-deficient osteoclasts. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 2955-63	5.3	27
61	Doubling skeletal mass during adult life: the syndrome of diffuse osteosclerosis after intravenous drug abuse. <i>Journal of Bone and Mineral Research</i> , <b>1996</b> , 11, 554-8	6.3	27
60	1,25 dihydroxyvitamin D3 and dexamethasone induce the cyclooxygenase 1 gene in osteoclast-supporting stromal cells. <i>Journal of Cellular Biochemistry</i> , <b>1999</b> , 74, 587-595	4.7	27
59	Adipose tissue is a critical regulator of osteoarthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	27
58	Mice lacking the integrin beta5 subunit have accelerated osteoclast maturation and increased activity in the estrogen-deficient state. <i>Journal of Bone and Mineral Research</i> , <b>2005</b> , 20, 58-66	6.3	26
57	Parafollicular cells in the normal human thyroid. <i>Nature</i> , <b>1971</b> , 230, 334-5	50.4	26

56	Ablation of Fat Cells in Adult Mice Induces Massive Bone Gain. <i>Cell Metabolism</i> , <b>2020</b> , 32, 801-813.e6	24.6	25
55	Idiopathic multicentric osteolysis. Report of an affected father and son. <i>Arthritis and Rheumatism</i> , <b>1978</b> , 21, 367-76		24
54	Oophorectomy-induced bone loss is attenuated in MAGP1-deficient mice. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 93-9	4.7	22
53	Osteoporosis and integrins. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2005</b> , 90, 2466-8	5.6	22
52	Avian osteoblast conditioned media stimulate bone resorption by targeting multinucleating osteoclast precursors. <i>Calcified Tissue International</i> , <b>1992</b> , 51, 317-23	3.9	22
51	Microfibril-associated glycoprotein-1, an extracellular matrix regulator of bone remodeling. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 23858-67	5.4	21
50	Osteoclast-specific inactivation of the integrin-linked kinase (ILK) inhibits bone resorption. <i>Journal of Cellular Biochemistry</i> , <b>2010</b> , 110, 960-7	4.7	21
49	Competition for a unique response element mediates retinoic acid inhibition of vitamin D3-stimulated transcription. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 20650-4	5.4	21
48	1,25-Dihydroxyvitamin D3 modulates colony-stimulating factor-1 receptor binding by murine bone marrow macrophage precursors. <i>Endocrinology</i> , <b>1991</b> , 128, 303-11	4.8	21
47	Paget bone disease involving young adults in 3 generations of a Korean family. <i>Medicine (United States)</i> , <b>1997</b> , 76, 157-69	1.8	20
46	Retinoic acid stimulates expression of the functional osteoclast integrin $\alpha\beta$ : Transcriptional activation of the $\beta$ but not the $\alpha$ gene. <i>Journal of Cellular Biochemistry</i> , <b>1996</b> , 62, 467-475	4.7	19
45	C cell follicles in the dog thyroid: demonstration by in vivo perfusion. <i>The Anatomical Record</i> , <b>1970</b> , 168, 69-77		19
44	PPAR- $\gamma$ regulates pharmacological but not physiological or pathological osteoclast formation. <i>Nature Medicine</i> , <b>2016</b> , 22, 1203-1205	50.5	18
43	Cloning of the murine beta5 integrin subunit promoter. Identification of a novel sequence mediating granulocyte-macrophage colony-stimulating factor-dependent repression of beta5 integrin gene transcription. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 1366-74	5.4	18
42	Glucocorticoids and the osteoclast. <i>Clinical and Experimental Rheumatology</i> , <b>2015</b> , 33, S37-9	2.2	18
41	Syk tyrosine 317 negatively regulates osteoclast function via the ubiquitin-protein isopeptide ligase activity of Cbl. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 18833-9	5.4	16
40	1,25-dihydroxyvitamin D3 regulates pp60c-src activity and expression of a pp60c-src activating phosphatase. <i>Journal of Cellular Biochemistry</i> , <b>1997</b> , 67, 432-8	4.7	16
39	The integrin $\alpha$ v $\beta$ 5 is expressed on avian osteoclast precursors and regulated by retinoic acid. <i>Journal of Bone and Mineral Research</i> , <b>1999</b> , 14, 32-8	6.3	16

38	Fat-Produced Adipsin Regulates Inflammatory Arthritis. <i>Cell Reports</i> , <b>2019</b> , 27, 2809-2816.e3	10.6	15
37	Therapeutic implications of suppressing osteoclast formation versus function. <i>Rheumatology</i> , <b>2016</b> , 55, ii61-ii63	3.9	15
36	Genetic variation in the serotonin transporter and HTR1B receptor predicts reduced bone formation during serotonin reuptake inhibitor treatment in older adults. <i>World Journal of Biological Psychiatry</i> , <b>2014</b> , 15, 404-10	3.8	15
35	Fyn promotes proliferation, differentiation, survival and function of osteoclast lineage cells. <i>Journal of Cellular Biochemistry</i> , <b>2010</b> , 111, 1107-13	4.7	15
34	ASXL1 impairs osteoclast formation by epigenetic regulation of NFATc1. <i>Blood Advances</i> , <b>2018</b> , 2, 2467-2477	4.7	14
33	Paxillin contracts the osteoclast cytoskeleton. <i>Journal of Bone and Mineral Research</i> , <b>2012</b> , 27, 2490-500	6.3	13
32	Congenital lipodystrophy induces severe osteosclerosis. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008244	6	12
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