Juha Tuukkanen

List of Publications by Year in Descending Order

173 papers	6,594 citations	44 h-index	74 g-index
178 ext. papers	7,191 ext. citations	5.5 avg, IF	5.17 L-index

#	Paper	IF	Citations
173	Osteoblast Attachment on Titanium Coated with Hydroxyapatite by Atomic Layer Deposition. *Biomolecules*, **2022**, 12, 654	5.9	1
172	Preliminary Report: Osteoarthritis and Rheumatoid Arthritis Synovial Fluid Increased Osteoclastogenesis In Vitro by Monocyte Differentiation Pathway Regulating Cytokines. *Mediators of Inflammation*, **2022**, 2022, 1-13	4.3	0
171	Osteocyte- and late osteoblast-derived NOTUM reduces cortical bone mass in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E967-E975	6	0
170	Endocrine, metabolic and apical effects of in utero and lactational exposure to non-dioxin-like 2,2′3,4,4′5,5′heptachlorobiphenyl (PCB 180): A postnatal follow-up study in rats. *Reproductive Toxicology*, **2021**, 102, 109-127	3.4	3
169	Acute fat loss does not affect bone mass. *Scientific Reports*, **2021**, 11, 14177	4.9	1
168	RSPO3 is important for trabecular bone and fracture risk in mice and humans. *Nature Communications*, **2021**, 12, 4923	17.4	3
167	Effect of bioactive glass air-abrasion on the wettability and osteoblast proliferation on sandblasted and acid-etched titanium surfaces. *European Journal of Oral Sciences*, **2020**, 128, 160-169	2.3	3
166	Improving anatomical stature estimation method. The relationship between living stature and intervertebral disc thickness. *HOMO- Journal of Comparative Human Biology*, **2020**, 71, 37-42	0.5	1
165	The association between knee breadth and body mass: The Northern Finland Birth Cohort 1966 case study. *American Journal of Physical Anthropology*, **2019**, 170, 196-206	2.5	3
164	Osteoblast-derived NOTUM reduces cortical bone mass in mice and the locus is associated with bone mineral density in humans. *FASEB Journal*, **2019**, 33, 11163-11179	0.9	15
163	The androgen receptor is required for maintenance of bone mass in adult male mice. *Molecular and Cellular Endocrinology*, **2019**, 479, 159-169	4.4	12
162	Osteoclasts secrete osteopontin into resorption lacunae during bone resorption. *Histochemistry and Cell Biology*, **2019**, 151, 475-487	2.4	20
161	Androgen receptor SUMOylation regulates bone mass in male mice. *Molecular and Cellular Endocrinology*, **2019**, 479, 117-122	4.4	4
160	Prednisolone treatment reduces the osteogenic effects of loading in mice. *Bone*, **2018**, 112, 10-18	4.7	9
159	Inducible inactivation: WNT16 regulates cortical bone thickness in adult mice. *Journal of Endocrinology*, **2018**, 237, 113-122	4.7	20
158	Polysaccharide Nanobiotechnology: A Case Study of Dental Implant Coating **2018**, 425-449		1
157	Adhesion and mechanical properties of nanocrystalline hydroxyapatite coating obtained by conversion of atomic layer-deposited calcium carbonate on titanium substrate. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 111	4.5	12

156	Osteogenic Differentiation of Human Mesenchymal Stem cells in a 3D Woven Scaffold. *Scientific Reports*, **2018**, 8, 10457	4.9	54
155	Porcupine inhibitors impair trabecular and cortical bone mass and strength in mice. *Journal of Endocrinology*, **2018**, 238, 13-23	4.7	21
154	Clinically relevant doses of vitamin A decrease cortical bone mass in mice. *Journal of Endocrinology*, **2018**, 239, 389-402	4.7	13
153	Membrane estrogen receptor is essential for estrogen signaling in the male skeleton. *Journal of Endocrinology*, **2018**, 239, 303-312	4.7	9
152	Increased bone mass in a mouse model with low fat mass. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 315, E1274-E1285	6	2
151	Peripheral blood monocytes show increased osteoclast differentiation potential compared to bone marrow monocytes. *Heliyon*, **2018**, 4, e00780	3.6	14
150	Gap junctional communication is involved in differentiation of osteoclasts from bone marrow and peripheral blood monocytes. *Heliyon*, **2018**, 4, e00621	3.6	5
149	Raccoon dog model shows preservation of bone during prolonged catabolism and reduced physical activity. *Journal of Experimental Biology*, **2017**, 220, 2196-2202	3	2
148	Compressive loading of the murine tibia reveals site-specific micro-scale differences in adaptation and maturation rates of bone. *Osteoporosis International*, **2017**, 28, 1121-1131	5.3	11
147	Perfluoroalkyl substances in human bone: concentrations in bones and effects on bone cell differentiation. *Scientific Reports*, **2017**, 7, 6841	4.9	29
146	Increased amount of phosphorylated proinflammatory osteopontin in rheumatoid arthritis synovia is associated to decreased tartrate-resistant acid phosphatase 5B/5A ratio. *PLoS ONE*, **2017**, 12, e0182904	3.7	8
145	Hydroxyapatite as a Nanomaterial for Advanced Tissue Engineering and Drug Therapy. *Current Pharmaceutical Design*, **2017**, 23, 3786-3793	3.3	15
144	Female Mice Lacking Estrogen Receptor- in Hypothalamic Proopiomelanocortin (POMC) Neurons Display Enhanced Estrogenic Response on Cortical Bone Mass. *Endocrinology*, **2016**, 157, 3242-52	4.8	21
143	Computed tomography of mummified human remains in old Finnish churches, a case study: the mummified remains of a 17th-century vicar revisited. *Post-Medieval Archaeology*, **2016**, 50, 368-379	0.1	2
142	SERMs have substance-specific effects on bone, and these effects are mediated via ERAF-1 in female mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 310, E912-8	6	16
141	Osteoclasts and Remodeling Based Bone Formation. *Current Stem Cell Research and Therapy*, **2016**, 11, 626-633	3.6	47
140	Liver-derived IGF-I regulates cortical bone mass but is dispensable for the osteogenic response to mechanical loading in female mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 311, E138-44	6	6
139	The role of membrane ER signaling in bone and other major estrogen responsive tissues. *Scientific Reports*, **2016**, 6, 29473	4.9	41

138	Effects of developmental exposure to perfluorooctanoic acid (PFOA) on long bone morphology and bone cell differentiation. *Toxicology and Applied Pharmacology*, **2016**, 301, 14-21	4.6	42
137	The Bone Sparing Effects of 2-Methoxyestradiol Are Mediated via Estrogen Receptor-α in Male Mice. *Endocrinology*, **2016**, 157, 4200-4205	4.8	3
136	Enzalutamide Reduces the Bone Mass in the Axial But Not the Appendicular Skeleton in Male Mice. *Endocrinology*, **2016**, 157, 969-77	4.8	17
135	Transgene silencing of the Hutchinson-Gilford progeria syndrome mutation results in a reversible bone phenotype, whereas resveratrol treatment does not show overall beneficial effects. *FASEB Journal*, **2015**, 29, 3193-205	0.9	18
134	The bone-sparing effects of estrogen and WNT16 are independent of each other. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14972-7	11.5	32
133	Age-related trends in vertebral dimensions. *Journal of Anatomy*, **2015**, 226, 434-9	2.9	14
132	Severe Extracellular Matrix Abnormalities and Chondrodysplasia in Mice Lacking Collagen Prolyl 4-Hydroxylase Isoenzyme II in Combination with a Reduced Amount of Isoenzyme I. *Journal of Biological Chemistry*, **2015**, 290, 16964-78	5.4	29
131	Osteoclasts in the interface with electrospun hydroxyapatite. *Colloids and Surfaces B: Biointerfaces*, **2015**, 135, 774-783	6	13
130	Bone morphogenetic proteins 4 and 2/7 induce osteogenic differentiation of mouse skin derived fibroblast and dermal papilla cells. *Cell and Tissue Research*, **2014**, 355, 463-70	4.2	20
129	Osteoblast-derived WNT16 represses osteoclastogenesis and prevents cortical bone fragility fractures. *Nature Medicine*, **2014**, 20, 1279-88	50.5	220
128	Preparation and bioactive properties of nanocrystalline hydroxyapatite thin films obtained by conversion of atomic layer deposited calcium carbonate. *Biointerphases*, **2014**, 9, 031008	1.8	11
127	Toxicological profile of ultrapure 2,2′,3,4,4′,5,5′-heptachlorbiphenyl (PCB 180) in adult rats. *PLoS ONE*, **2014**, 9, e104639	3.7	22
126	Effect of bioactive extruded PLA/HA composite films on focal adhesion formation of preosteoblastic cells. *Colloids and Surfaces B: Biointerfaces*, **2014**, 121, 409-16	6	51
125	Osteoclastogenesis is influenced by modulation of gap junctional communication with antiarrhythmic peptides. *Calcified Tissue International*, **2013**, 92, 270-81	3.9	10
124	Influence of physical activity on vertebral strength during late adolescence. *Spine Journal*, **2013**, 13, 184-9	4	8
123	Maternal beef and postweaning herring diets increase bone mineral density and strength in mouse offspring. *Experimental Biology and Medicine*, **2013**, 238, 1362-9	3.7	1
122	Polarity of mature human odontoblasts. *Journal of Dental Research*, **2013**, 92, 1011-6	8.1	19
121	Estrogen receptor-α in osteocytes is important for trabecular bone formation in male mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2294-9	11.5	100

120	Modeling skeletal traits and functions of the upper body: Comparing archaeological and anthropological material. *Journal of Anthropological Archaeology*, **2013**, 32, 347-351	1.9	12
119	New insights to the role of aryl hydrocarbon receptor in bone phenotype and in dioxin-induced modulation of bone microarchitecture and material properties. *Toxicology and Applied Pharmacology*, **2013**, 273, 219-26	4.6	28
118	Melt spinning of poly(lactic acid) and hydroxyapatite composite fibers: influence of the filler content on the fiber properties. *ACS Applied Materials & Interfaces*, **2013**, 5, 6864-72	9.5	62
117	The role of activation functions 1 and 2 of estrogen receptor-α for the effects of estradiol and selective estrogen receptor modulators in male mice. *Journal of Bone and Mineral Research*, **2013**, 28, 1117-26	6.3	20
116	Role of Phase Stress in Variations of Cell Behavior on NiTi. *Materials Science Forum*, **2013**, 738-739, 559-565	0.4	2
115	Affecting osteoblastic responses with in vivo engineered potato pectin fragments. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 111-9	5.4	15
114	Synergistic effects of tributyltin and 2,3,7,8-tetrachlorodibenzo-p-dioxin on differentiating osteoblasts and osteoclasts. *Toxicology and Applied Pharmacology*, **2012**, 263, 210-7	4.6	20
113	Expression of the Hutchinson-Gilford progeria mutation during osteoblast development results in loss of osteocytes, irregular mineralization, and poor biomechanical properties. *Journal of Biological Chemistry*, **2012**, 287, 33512-22	5.4	31
112	Estrogen receptor-α expression in neuronal cells affects bone mass. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 983-8	11.5	31
111	Estrogen receptor α (ERα) expression in neuronal cells affects bone mass. *Annals of the Rheumatic Diseases*, **2012**, 71, A65.1-A65	2.4	
110	Preservation of bone mass and biomechanical properties during winter sleep--the raccoon dog (Nyctereutes procyonoides) as a novel model species. *Bone*, **2011**, 48, 878-84	4.7	4
109	In utero and lactational exposure to Aroclor 1254 affects bone geometry, mineral density and biomechanical properties of rat offspring. *Toxicology Letters*, **2011**, 207, 82-8	4.4	15
108	Multiple miliary osteoma cutis is a distinct disease entity: four case reports and review of the literature. *British Journal of Dermatology*, **2011**, 164, 544-52	4	20
107	Cross sectional properties of the human radial tuberosity. *HOMO- Journal of Comparative Human Biology*, **2011**, 62, 459-65	0.5	3
106	Influence of physical activity on vertebral size. *Osteoporosis International*, **2011**, 22, 371-2	5.3	11
105	Perinatal exposure to environmental contaminants detected in Canadian Arctic human populations changes bone geometry and biomechanical properties in rat offspring. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2011**, 74, 1304-18	3.2	10
104	Development of a Low Temperature Sol-Gel-Derived Titania-Silica Implant Coating. *Materials Sciences and Applications*, **2010**, 01, 118-126	0.3	4
103	Pectin-coated titanium implants are well-tolerated in vivo. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 1404-9	5.4	15

102	Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure on bone material properties. *Journal of Biomechanics*, **2010**, 43, 1097-103	2.9	43
101	Quantitative characterization of changes in bone geometry, mineral density and biomechanical properties in two rat strains with different Ah-receptor structures after long-term exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology*, **2010**, 273, 1-11	4.4	24
100	Dioxin-sensitive proteins in differentiating osteoblasts: effects on bone formation in vitro. *Toxicological Sciences*, **2009**, 108, 330-43	4.4	30
99	Biocompatibility Aspects of NiTi-Based Medical Implants. *Materials Science Forum*, **2009**, 631-632, 175-179	0.4	
98	Long-term voluntary exercise of male mice induces more beneficial effects on cancellous and cortical bone than on the collagenous matrix. *Experimental Gerontology*, **2009**, 44, 708-17	4.5	21
97	Fibronectin modulates osteoblast behavior on Nitinol. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 787-96	5.4	8
96	Biocompatibility of sol-gel-derived titania-silica coated intramedullary NiTi nails. *Acta Biomaterialia*, **2009**, 5, 785-93	10.8	21
95	Physical exercise improves properties of bone and its collagen network in growing and maturing mice. *Calcified Tissue International*, **2009**, 85, 247-56	3.9	38
94	Endostatin affects osteoblast behavior in vitro, but collagen XVIII/endostatin is not essential for skeletal development in vivo. *Calcified Tissue International*, **2009**, 85, 412-20	3.9	7
93	Influence of intensity and changes of physical activity on bone mineral density of immature equine subchondral bone. *Equine Veterinary Journal*, **2009**, 41, 564-71	2.4	18
92	Dioxins interfere with differentiation of osteoblasts and osteoclasts. *Bone*, **2009**, 44, 1134-42	4.7	78
91	Temporal trends in vertebral size and shape from medieval to modern-day. *PLoS ONE*, **2009**, 4, e4836	3.7	22
90	Differentiation of osteoblasts on pectin-coated titanium. *Biomacromolecules*, **2008**, 9, 2369-76	6.9	44
89	Changes in subchondral bone mineral density and collagen matrix organization in growing horses. *Bone*, **2008**, 43, 1108-14	4.7	20
88	Biocompatilibity-related surface characteristics of oxidized NiTi. *Journal of Biomedical Materials Research - Part A*, **2007**, 82, 810-9	5.4	7
87	Endostatin inhibits endochondral ossification. *Journal of Gene Medicine*, **2007**, 9, 1057-64	3.5	17
86	The effect of oxide thickness on osteoblast attachment and survival on NiTi alloy. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 959-67	4.5	17
85	Nuclear factor-kappaB signaling contributes to severe, but not moderate, angiotensin II-induced left ventricular remodeling. *Journal of Hypertension*, **2007**, 25, 1927-39	1.9	18

84	Dioxin exposure in contaminated sawmill area: the use of molar teeth and bone of bank vole (Clethrionomys glareolus) and field vole (Microtus agrestis) as biomarkers. *Chemosphere*, **2007**, 68, 951-7	3.4	14
83	Effect of modified pectin molecules on the growth of bone cells. *Biomacromolecules*, **2007**, 8, 509-15	6.9	52
82	High dietary phosphate intake reduces bone strength in the growing rat skeleton. *Journal of Bone and Mineral Research*, **2007**, 22, 83-92	6.3	47
81	Endostatin inhibits VEGF-A induced osteoclastic bone resorption in vitro. *BMC Musculoskeletal Disorders*, **2006**, 7, 56	2.8	30
80	The effect of perinatal TCDD exposure on caries susceptibility in rats. *Toxicological Sciences*, **2006**, 91, 568-75	4.4	15
79	p38 Kinase rescues failing myocardium after myocardial infarction: evidence for angiogenic and anti-apoptotic mechanisms. *FASEB Journal*, **2006**, 20, 1907-9	0.9	54
78	Immunolocalization of EMMPRIN (CD147) in the human eye and detection of soluble form of EMMPRIN in ocular fluids. *Current Eye Research*, **2006**, 31, 917-24	2.9	31
77	Renal insufficiency-induced bone loss is associated with an increase in bone size and preservation of strength in rat proximal femur. *Bone*, **2006**, 39, 353-60	4.7	18
76	Wnt-4 signaling is involved in the control of smooth muscle cell fate via Bmp-4 in the medullary stroma of the developing kidney. *Developmental Biology*, **2006**, 293, 473-83	3.1	45
75	A novel treatment of grade III acromioclavicular joint dislocations with a C-hook implant. *Archives of Orthopaedic and Trauma Surgery*, **2006**, 126, 22-7	3.6	16
74	Bone resorption by aryl hydrocarbon receptor-expressing osteoclasts is not disturbed by TCDD in short-term cultures. *Life Sciences*, **2005**, 77, 1351-66	6.8	25
73	Type XIII collagen strongly affects bone formation in transgenic mice. *Journal of Bone and Mineral Research*, **2005**, 20, 1381-93	6.3	36
72	Keratinocytes cultured from patients with Hailey-Hailey disease and Darier disease display distinct patterns of calcium regulation. *British Journal of Dermatology*, **2005**, 153, 113-7	4	26
71	The phase state of NiTi implant material affects osteoclastic attachment. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 681-8	5.4	7
70	Abnormal response to physical activity in femurs after heterozygous inactivation of one allele of the Col2a1 gene for type II collagen in mice. *Calcified Tissue International*, **2005**, 77, 104-12	3.9	2
69	Effects of in utero and lactational TCDD exposure on bone development in differentially sensitive rat lines. *Toxicological Sciences*, **2005**, 85, 1003-12	4.4	77
68	Effect of strain on NiTi surface-optical reflectivity. *European Physical Journal Special Topics*, **2004**, 115, 287-295		1
67	Biocompatibility and strength properties of nitinol shape memory alloy suture in rabbit tendon. *Biomaterials*, **2004**, 25, 353-8	15.6	57

66	Long-term administration of clodronate does not prevent fracture healing in rats. *Clinical Orthopaedics and Related Research*, **2003**, 268-78	2.2	41
65	Biocompatibility of austenite and martensite phases in NiTi-based alloys. *European Physical Journal Special Topics*, **2003**, 112, 1117-1120		4
64	The bone gain induced by exercise in puberty is not preserved through a virtually life-long deconditioning: a randomized controlled experimental study in male rats. *Journal of Bone and Mineral Research*, **2003**, 18, 544-52	6.3	53
63	Femoral neck response to exercise and subsequent deconditioning in young and adult rats. *Journal of Bone and Mineral Research*, **2003**, 18, 1292-9	6.3	61
62	Adenoviral VEGF-A gene transfer induces angiogenesis and promotes bone formation in healing osseous tissues. *Journal of Gene Medicine*, **2003**, 5, 560-6	3.5	110
61	Effect of porosity on the osteointegration and bone ingrowth of a weight-bearing nickel-titanium bone graft substitute. *Biomaterials*, **2003**, 24, 4691-7	15.6	211
60	Estrogen deposits extra mineral into bones of female rats in puberty, but simultaneously seems to suppress the responsiveness of female skeleton to mechanical loading. *Bone*, **2003**, 32, 642-51	4.7	75
59	Bone morphogenetic protein 3b expressing reindeer antler. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 78-83		6
58	Microstructural properties of bone in rat vertebra after long-term clodronate treatment. *Journal of Bone and Mineral Metabolism*, **2002**, 20, 223-7	2.9	4
57	Chlamydia pneumoniae inhibits apoptosis in human epithelial and monocyte cell lines. *Scandinavian Journal of Immunology*, **2002**, 55, 390-8	3.4	47
56	Behaviour of nitinol in osteoblast-like ROS-17 cell cultures. *Biomaterials*, **2002**, 23, 645-50	15.6	89
55	Bone modeling controlled by a nickel-titanium shape memory alloy intramedullary nail. *Biomaterials* , **2002**, 23, 2535-43	15.6	62
54	TGF-beta1 secretion of ROS-17/2.8 cultures on NiTi implant material. *Biomaterials*, **2002**, 23, 3341-6	15.6	31
53	Effect of metal alloy surface stresses on the viability of ROS-17/2.8 osteoblastic cells. *Biomaterials*, **2002**, 23, 3733-40	15.6	18
52	Mechanical properties in long bones of rat osteopetrotic mutations. *Journal of Biomechanics*, **2002**, 35, 161-5	2.9	49
51	Comparison of the bone modeling effects caused by curved and straight nickel-titanium intramedullary nails. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 1157-61	4.5	9
50	Progression of human aortic valve stenosis is associated with tenascin-C expression. *Journal of the American College of Cardiology*, **2002**, 39, 96-101	15.1	53
49	Effects of long-term administration of clodronate on growing rat bone. *Calcified Tissue International*, **2001**, 69, 350-5	3.9	16

48	Bovine bone implant with bovine bone morphogenetic protein in healing a canine ulnar defect. *International Orthopaedics*, **2001**, 25, 5-8	3.8	13
47	Effect of nickel-titanium shape memory metal alloy on bone formation. *Biomaterials*, **2001**, 22, 2475-80	15.6	102
46	In utero/lactational 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure impairs molar tooth development in rats. *Toxicology and Applied Pharmacology*, **2001**, 174, 216-24	4.6	55
45	Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on bone in two rat strains with different aryl hydrocarbon receptor structures. *Journal of Bone and Mineral Research*, **2001**, 16, 1812-20	6.3	90
44	Connexin-mimetic peptide Gap 27 decreases osteoclastic activity. *BMC Musculoskeletal Disorders*, **2001**, 2, 10	2.8	37
43	Propofol anesthesia induces phase synchronization changes in EEG. *Clinical Neurophysiology*, **2001**, 112, 386-92	4.3	30
42	A metaphyseal defect model of the femur for studies of murine bone healing. *Bone*, **2001**, 28, 423-9	4.7	75
41	Induced repatterning of type XVIII collagen expression in ureter bud from kidney to lung type: association with sonic hedgehog and ectopic surfactant protein C. *Development (Cambridge)*, **2001**, 128, 1573-1585	6.6	88
40	Bone-resorbing osteoclasts contain gap-junctional connexin-43. *Journal of Bone and Mineral Research*, **2000**, 15, 919-26	6.3	88
39	Mineral density and bone strength are dissociated in long bones of rat osteopetrotic mutations. *Journal of Bone and Mineral Research*, **2000**, 15, 1905-11	6.3	37
38	Comparison of radiographic and pQCT analyses of healing rat tibial fractures. *Calcified Tissue International*, **2000**, 66, 288-91	3.9	29
37	Native bovine bone morphogenetic protein improves the potential of biocoral to heal segmental canine ulnar defects. *International Orthopaedics*, **2000**, 24, 289-94	3.8	35
36	FRESH TUBULAR LONG BONE AUTOGRAFTS AND ALLOGRAFTS IN THE HEALING OF CANINE ULNAR DEFECT FIXED WITH INTRAMEDULLARY KIRSCHNER WIRE. *Journal of Musculoskeletal Research*, **2000**, 04, 55-62	0.1	
35	Unilateral masticatory function changes the proteoglycan content of mandibular condylar cartilage in rabbit. *Cells Tissues Organs*, **2000**, 167, 49-57	2.1	14
34	Bone modeling and cell-material interface responses induced by nickel-titanium shape memory alloy after periosteal implantation. *Biomaterials*, **1999**, 20, 1309-17	15.6	68
33	A novel component of epidermal cell-matrix and cell-cell contacts: transmembrane protein type XIII collagen. *Journal of Investigative Dermatology*, **1999**, 113, 635-42	4.3	40
32	Femoral neck is a sensitive indicator of bone loss in immobilized hind limb of mouse. *Journal of Bone and Mineral Research*, **1999**, 14, 1708-13	6.3	32
31	Expression profiles of mRNAs for osteoblast and osteoclast proteins as indicators of bone loss in mouse immobilization osteopenia model. *Journal of Bone and Mineral Research*, **1999**, 14, 1934-42	6.3	56

30	Alteration in the mechanical competence and structural properties in the femoral neck and vertebrae of ovariectomized rats. *Journal of Bone and Mineral Research*, **1999**, 14, 616-23	6.3	20
29	Polarity of osteoblasts and osteoblast-like UMR-108 cells. *Journal of Bone and Mineral Research*, **1999**, 14, 1338-44	6.3	15
28	Bone healing and mineralization, implant corrosion, and trace metals after nickel-titanium shape memory metal intramedullary fixation. *Journal of Biomedical Materials Research Part B*, **1999**, 47, 472-80		73
27	Urinary bladder transitional cell carcinogenesis is associated with down-regulation of NF1 tumor suppressor gene in vivo and in vitro. *American Journal of Pathology*, **1999**, 154, 755-65	5.8	34
26	Autoimmune regulator is expressed in the cells regulating immune tolerance in thymus medulla. *Biochemical and Biophysical Research Communications*, **1999**, 257, 821-5	3.4	229
25	rab5 GTPase regulates adenovirus endocytosis. *Journal of Virology*, **1999**, 73, 9664-8	6.6	42
24	Bone healing and mineralization, implant corrosion, and trace metals after nickel□titanium shape memory metal intramedullary fixation **1999**, 47, 472		1
23	Femoral neck strength of mouse in two loading configurations: method evaluation and fracture characteristics. *Journal of Biomechanics*, **1998**, 31, 723-9	2.9	33
22	Clodronate prevents osteopenia and loss of trabecular connectivity in estrogen-deficient rats. *Journal of Bone and Mineral Research*, **1998**, 13, 287-96	6.3	20
21	In vivo biocompatibility evaluation of nickel-titanium shape memory metal alloy: muscle and perineural tissue responses and encapsule membrane thickness. *Journal of Biomedical Materials Research Part B*, **1998**, 41, 481-8		139
20	Comparison of three-point bending test and peripheral quantitative computed tomography analysis in the evaluation of the strength of mouse femur and tibia. *Bone*, **1998**, 23, 155-61	4.7	180
19	Carbonic anhydrase II plays a major role in osteoclast differentiation and bone resorption by effecting the steady state intracellular pH and Ca2+. *Experimental Cell Research*, **1998**, 242, 128-37	4.2	102
18	In vivo biocompatibility evaluation of nickel-titanium shape memory metal alloy: Muscle and perineural tissue responses and encapsule membrane thickness **1998**, 41, 481		5
17	Long-term effects of ovariectomy on the mechanical properties and chemical composition of rat bone. *Bone*, **1997**, 20, 207-12	4.7	41
16	Ovariectomy-induced bone loss can be affected by different intensities of treadmill running exercise in rats. *Calcified Tissue International*, **1997**, 60, 441-8	3.9	40
15	Cloning of a novel bacteria-binding receptor structurally related to scavenger receptors and expressed in a subset of macrophages. *Cell*, **1995**, 80, 603-9	56.2	410
14	Effects of recombinant human osteogenic protein-1 on the differentiation of osteoclast-like cells and bone resorption. *Biochemical and Biophysical Research Communications*, **1995**, 209, 433-43	3.4	35
13	Exercise can provide protection against bone loss and prevent the decrease in mechanical strength of femoral neck in ovariectomized rats. *Journal of Bone and Mineral Research*, **1994**, 9, 1559-64	6.3	54

12	Effect of running exercise on the bone loss induced by orchidectomy in the rat. *Calcified Tissue International*, **1994**, 55, 33-7	3.9	30
11	The mechanical strength of bone in different rat models of experimental osteoporosis. *Bone*, **1994**, 15, 523-32	4.7	156
10	The effect of training on the recovery from immobilization-induced bone loss in rats. *Acta Physiologica Scandinavica*, **1992**, 145, 407-11		35
9	Calcitonin treatment of immobilization osteoporosis in rats. *Acta Physiologica Scandinavica*, **1991**, 141, 119-24		20
8	Effect of exercise on osteoporosis induced by ovariectomy in rats. *Calcified Tissue International*, **1991**, 49 Suppl, S80	3.9	17
7	Changes induced in growing rat bone by immobilization and remobilization. *Bone*, **1991**, 12, 113-8	4.7	67
6	Osteoclasts and a small population of peripheral blood cells share common surface antigens. *Calcified Tissue International*, **1990**, 47, 8-17	3.9	10
5	Evidence for the presence of a proton pump of the vacuolar H(+)-ATPase type in the ruffled borders of osteoclasts. *Journal of Cell Biology*, **1990**, 111, 1305-11	7.3	332
4	Organization of osteoclast microfilaments during the attachment to bone surface in vitro. *Journal of Bone and Mineral Research*, **1989**, 4, 817-25	6.3	138
3	Identification of osteoclasts by rhodamine-conjugated peanut agglutinin. *Calcified Tissue International*, **1986**, 39, 161-5	3.9	7
2	Omeprazole, a specific inhibitor of H+-K+-ATPase, inhibits bone resorption in vitro. *Calcified Tissue International*, **1986**, 38, 123-5	3.9	137
1	Polysaccharide Nanobiotechnology: A Case Study of Dental Implant Coating425-449		