Gerstenfeld Lc

List of Publications by Year
in descending order

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178 papers	18,021 citations	13865 67 h-index	12946 131 g-index
180 all docs	180 docs citations	180 times ranked	14396 citing authors

#	Article	IF	Citations
1	Fracture healing: mechanisms and interventions. Nature Reviews Rheumatology, 2015, 11, 45-54.	8.0	1,159
2	Fracture healing as a postâ€natal developmental process: Molecular, spatial, and temporal aspects of its regulation. Journal of Cellular Biochemistry, 2003, 88, 873-884.	2.6	1,073
3	BMP2 activity, although dispensable for bone formation, is required for the initiation of fracture healing. Nature Genetics, 2006, 38, 1424-1429.	21.4	708
4	The hypoxia-inducible factor Î± pathway couples angiogenesis to osteogenesis during skeletal development. Journal of Clinical Investigation, 2007, 117, 1616-1626.	8.2	616
5	Differential Temporal Expression of Members of the Transforming Growth Factor Î² Superfamily During Murine Fracture Healing. Journal of Bone and Mineral Research, 2002, 17, 513-520.	2.8	610
6	Molecular Mechanisms Controlling Bone Formation during Fracture Healing and Distraction Osteogenesis. Journal of Dental Research, 2008, 87, 107-118.	5.2	552
7	Factors that promote progressive development of the osteoblast phenotype in cultured fetal rat calvaria cells. Journal of Cellular Physiology, 1990, 143, 213-221.	4.1	490
8	Expression of Osteoprotegerin, Receptor Activator of NF-ÎºB Ligand (Osteoprotegerin Ligand) and Related Proinflammatory Cytokines During Fracture Healing. Journal of Bone and Mineral Research, 2001, 16, 1004-1014.	2.8	480
9	Activation of the hypoxia-inducible factor-1Î± pathway accelerates bone regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 686-691.	7.1	442
10	Growth Factor Regulation of Fracture Repair. Journal of Bone and Mineral Research, 1999, 14, 1805-1815.	2.8	416
11	Expression of differentiated function by mineralizing cultures of chicken osteoblasts. Developmental Biology, 1987, 122, 49-60.	2.0	383
12	Impaired Fracture Healing in the Absence of TNF-Î± Signaling: The Role of TNF-Î± in Endochondral Cartilage Resorption. Journal of Bone and Mineral Research, 2003, 18, 1584-1592.	2.8	379
13	Differential inhibition of fracture healing by non-selective and cyclooxygenase-2 selective non-steroidal anti-inflammatory drugs. Journal of Orthopaedic Research, 2003, 21, 670-675.	2.3	307
14	Advanced glycation end products stimulate osteoblast apoptosis via the MAP kinase and cytosolic apoptotic pathways. Bone, 2007, 40, 345-353.	2.9	303
15	Diabetes Interferes with the Bone Formation by Affecting the Expression of Transcription Factors that Regulate Osteoblast Differentiation. Endocrinology, 2003, 144, 346-352.	2.8	292
16	Enhancement of Experimental Fracture-Healing by Systemic Administration of Recombinant Human Parathyroid Hormone (PTH 1-34). Journal of Bone and Joint Surgery - Series A, 2005, 87, 731-741.	3.0	231
17	Micro-computed tomography assessment of fracture healing: Relationships among callus structure, composition, and mechanical function. Bone, 2009, 44, 335-344.	2.9	216
18	Diminished Bone Formation During Diabetic Fracture Healing is Related to the Premature Resorption of Cartilage Associated With Increased Osteoclast Activity. Journal of Bone and Mineral Research, 2007, 22, 560-568.	2.8	210

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19	Impaired Intramembranous Bone Formation during Bone Repair in the Absence of Tumor Necrosis Factor-Alpha Signaling. Cells Tissues Organs, 2001, 169, 285-294.	2.3	206
20	Enhanced Chondrogenesis and Wnt Signaling in PTH-Treated Fractures. Journal of Bone and Mineral Research, 2007, 22, 1903-1912.	2.8	196
21	BMP treatment of C3H10T1/2 mesenchymal stem cells induces both chondrogenesis and osteogenesis. Journal of Cellular Biochemistry, 2003, 90, 1112-1127.	2.6	194
22	Comparison of Effects of the Bisphosphonate Alendronate Versus the RANKL Inhibitor Denosumab on Murine Fracture Healing. Journal of Bone and Mineral Research, 2009, 24, 196-208.	2.8	189
23	The Nuclear Factor of Activated T Cells (Nfat) Transcription Factor Nfatp (Nfatc2) Is a Repressor of Chondrogenesis. Journal of Experimental Medicine, 2000, 191, 9-22.	8.5	183
24	Expression of angiogenic factors during distraction osteogenesis. Bone, 2003, 33, 889-898.	2.9	178
25	Mechanism of action and morphologic changes in the alveolar bone in response to selective alveolar decorticationâ€“facilitated tooth movement. American Journal of Orthodontics and Dentofacial Orthopedics, 2011, 139, S83-S101.	1.7	177
26	Impaired intranuclear trafficking of Runx2 (AML3/CBFA1) transcription factors in breast cancer cells inhibits osteolysis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1454-1459.	7.1	174
27	runt Homology Domain Transcription Factors (Runx, Cbfa, and AML) Mediate Repression of the Bone Sialoprotein Promoter: Evidence for Promoter Context-Dependent Activity of Cbfa Proteins. Molecular and Cellular Biology, 2001, 21, 2891-2905.	2.3	172
28	Bone Formation During Distraction Osteogenesis Is Dependent on Both VEGFR1 and VEGFR2 Signaling. Journal of Bone and Mineral Research, 2008, 23, 596-609.	2.8	166
29	Osteoblast-related transcription factors Runx2 (Cbfa1/AML3) and MSX2 mediate the expression of bone sialoprotein in human metastatic breast cancer cells. Cancer Research, 2003, 63, 2631-7.	0.9	165
30	Collagen expression, ultrastructural assembly, and mineralization in cultures of chicken embryo osteoblasts.. Journal of Cell Biology, 1988, 106, 979-989.	5.2	164
31	Signal Transduction of Mechanical Stimuli Is Dependent on Microfilament Integrity: Identification of Osteopontin as a Mechanically Induced Gene in Osteoblasts. Journal of Bone and Mineral Research, 1997, 12, 1626-1636.	2.8	164
32	Three-dimensional Reconstruction of Fracture Callus Morphogenesis. Journal of Histochemistry and Cytochemistry, 2006, 54, 1215-1228.	2.5	164
33	Diabetes Causes Decreased Osteoclastogenesis, Reduced Bone Formation, and Enhanced Apoptosis of Osteoblastic Cells in Bacteria Stimulated Bone Loss. Endocrinology, 2004, 145, 447-452.	2.8	156
34	Tumor necrosis factor alpha (TNF-Î±) coordinately regulates the expression of specific matrix metalloproteinases (MMPS) and angiogenic factors during fracture healing. Bone, 2005, 36, 300-310.	2.9	145
35	Device for the application of a dynamic biaxially uniform and isotropic strain to a flexible cell culture membrane. Journal of Orthopaedic Research, 1994, 12, 709-719.	2.3	143
36	A2B Adenosine Receptor Promotes Mesenchymal Stem Cell Differentiation to Osteoblasts and Bone Formation in Vivo. Journal of Biological Chemistry, 2012, 287, 15718-15727.	3.4	141

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37	Application of Histomorphometric Methods to the Study of Bone Repair. Journal of Bone and Mineral Research, 2005, 20, 1715-1722.	2.8	140
38	TNF-Î± mediates diabetes-enhanced chondrocyte apoptosis during fracture healing and stimulates chondrocyte apoptosis Through FOXO1. Journal of Bone and Mineral Research, 2010, 25, 1604-1615.	2.8	139
39	Induction of apoptosis in chondrocytes by tumor necrosis factor-alpha. Journal of Orthopaedic Research, 2001, 19, 785-796.	2.3	138
40	High Levels of Tumor Necrosis Factor-Î± Contribute to Accelerated Loss of Cartilage in Diabetic Fracture Healing. American Journal of Pathology, 2009, 175, 1574-1585.	3.8	138
41	The role of angiogenesis in a murine tibial model of distraction osteogenesis. Bone, 2004, 34, 849-861.	2.9	135
42	Fidelity of Runx2 Activity in Breast Cancer Cells Is Required for the Generation of Metastases-Associated Osteolytic Disease. Cancer Research, 2004, 64, 4506-4513.	0.9	133
43	Gene expression and extracellular matrix ultrastructure of a mineralizing chondrocyte cell culture system.. Journal of Cell Biology, 1991, 112, 501-513.	5.2	126
44	Direct Percutaneous Gene Delivery to Enhance Healing of Segmental Bone Defects. Journal of Bone and Joint Surgery - Series A, 2006, 88, 355-365.	3.0	125
45	Induction of bone-related proteins, osteocalcin and osteopontin, and their matrix ultrastructural localization with development of chondrocyte hypertrophy in vitro. Journal of Cellular Biochemistry, 1993, 52, 206-219.	2.6	124
46	Diabetes causes the accelerated loss of cartilage during fracture repair which is reversed by insulin treatment. Bone, 2009, 44, 357-363.	2.9	124
47	Effects of 17.beta.-estradiol on the biosynthesis of collagen in cultured bovine aortic smooth muscle cells. Biochemistry, 1981, 20, 2162-2167.	2.5	122
48	VEGF and bone cell signalling: an essential vessel for communication?. Cell Biochemistry and Function, 2013, 31, 1-11.	2.9	115
49	Vascular tissues are a primary source of BMP2 expression during bone formation induced by distraction osteogenesis. Bone, 2012, 51, 168-180.	2.9	112
50	Mechanical stimulation alters tissue differentiation and molecular expression during bone healing. Journal of Orthopaedic Research, 2009, 27, 1123-1132.	2.3	111
51	Delayed administration of adenoviral BMP-2 vector improves the formation of bone in osseous defects. Gene Therapy, 2007, 14, 1039-1044.	4.5	110
52	Chondrocytes Provide Morphogenic Signals That Selectively Induce Osteogenic Differentiation of Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 2002, 17, 221-230.	2.8	107
53	Stimulation of Fracture-Healing with Systemic Intermittent Parathyroid Hormone Treatment. Journal of Bone and Joint Surgery - Series A, 2008, 90, 120-127.	3.0	102
54	Transcriptional Analysis of Fracture Healing and the Induction of Embryonic Stem Cellâ€“Related Genes. PLoS ONE, 2009, 4, e5393.	2.5	96

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55	Interactions of cisplatin with calcium phosphate nanoparticles: In vitro controlled adsorption and release. Journal of Orthopaedic Research, 2004, 22, 703-708.	2.3	94
56	BMP2 is essential for post natal osteogenesis but not for recruitment of osteogenic stem cells. Bone, 2009, 45, 254-266.	2.9	91
57	Osteoblast cytoskeletal modulation in response to mechanical strainin vitro. Journal of Orthopaedic Research, 1998, 16, 170-180.	2.3	90
58	Medium Perfusion Enhances Osteogenesis by Murine Osteosarcoma Cells in Three-Dimensional Collagen Sponges. Journal of Bone and Mineral Research, 1999, 14, 2118-2126.	2.8	89
59	Experimental Use of Fibrin Glue to Induce Site-Directed Osteogenesis from Cultured Periosteal Cells. Plastic and Reconstructive Surgery, 2000, 105, 953-963.	1.4	89
60	Diabetes reduces mesenchymal stem cells in fracture healing through a TNFÎ±-mediated mechanism. Diabetologia, 2015, 58, 633-642.	6.3	88
61	Characterization of a cDNA for chicken osteopontin: expression during bone development, osteoblast differentiation, and tissue distribution. Biochemistry, 1991, 30, 2501-2508.	2.5	84
62	Autogenous regulation of a network of bone morphogenetic proteins (BMPs) mediates the osteogenic differentiation in murine marrow stromal cells. Bone, 2007, 40, 1389-1398.	2.9	82
63	Down-regulation of cell growth and cell cycle regulated genes during chick osteoblast differentiation with the reciprocal expression of histone gene variants. Biochemistry, 1989, 28, 5318-5322.	2.5	76
64	Post-translational control of collagen fibrillogenesis in mineralizing cultures of chick osteoblasts. Journal of Bone and Mineral Research, 1993, 8, 1031-1043.	2.8	73
65	FOXO1 modulates osteoblast differentiation. Bone, 2011, 48, 1043-1051.	2.9	71
66	COX inhibitors and their effects on bone healing. Expert Opinion on Drug Safety, 2004, 3, 131-136.	2.4	70
67	Spaceflight Effects on Cultured Embryonic Chick Bone Cells. Journal of Bone and Mineral Research, 2000, 15, 1099-1112.	2.8	67
68	Neuropilin-1 expression in osteogenic cells: Down-regulation during differentiation of osteoblasts into osteocytes. Journal of Cellular Biochemistry, 2001, 81, 82-92.	2.6	67
69	Structural and chemical characteristics and maturation of the calcium-phosphate crystals formed during the calcification of the organic matrix synthesized by chicken osteoblasts in cell culture. Journal of Bone and Mineral Research, 1995, 10, 1577-1588.	2.8	66
70	Effect of 1,25-Dihydroxyvitamin D3 on Induction of Chondrocyte Maturation in Culture: Extracellular Matrix Gene Expression and Morphology*. Endocrinology, 1990, 126, 1599-1609.	2.8	62
71	Chemokine expression is upregulated in chondrocytes in diabetic fracture healing. Bone, 2013, 53, 294-300.	2.9	62
72	Healing of Segmental Bone Defects by Direct Percutaneous Gene Delivery: Effect of Vector Dose. Human Gene Therapy, 2007, 18, 907-915.	2.7	61

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73	Expression and Role of Interleukin-6 in Distraction Osteogenesis. Calcified Tissue International, 2007, 80, 192-200.	3.1	61
74	Fibronectin gene expression, synthesis, and accumulation during in vitro differentiation of chicken osteoblasts. Journal of Bone and Mineral Research, 1995, 10, 1969-1977.	2.8	61
75	TNFÎ± contributes to diabetes impaired angiogenesis in fracture healing. Bone, 2017, 99, 26-38.	2.9	61
76	Induction of a neoarthrosis by precisely controlled motion in an experimental mid-femoral defect. Journal of Orthopaedic Research, 2002, 20, 579-586.	2.3	56
77	Colloidal-gold Immunocytochemical Localization of Osteopontin in Avian Eggshell Gland and Eggshell. Journal of Histochemistry and Cytochemistry, 2008, 56, 467-476.	2.5	54
78	Characterization of structural sequences in the chicken osteocalcin gene: Expression of osteocalcin by maturing osteoblasts and by hypertrophic chondrocytes in vitro. Journal of Bone and Mineral Research, 1995, 10, 157-163.	2.8	54
79	Genetic Variation in the Patterns of Skeletal Progenitor Cell Differentiation and Progression During Endochondral Bone Formation Affects the Rate of Fracture Healing. Journal of Bone and Mineral Research, 2008, 23, 1204-1216.	2.8	53
80	Effects of the local mechanical environment on vertebrate tissue differentiation during repair: does repair recapitulate development?. Journal of Experimental Biology, 2003, 206, 2459-2471.	1.7	52
81	Signal Transduction Pathways Mediating Parathyroid Hormone Stimulation of Bone Sialoprotein Gene Expression in Osteoblasts. Journal of Biological Chemistry, 1996, 271, 29839-29846.	3.4	51
82	Identification of the Phosphorylated Sites of Metabolically 32P-Labeled Osteopontin from Cultured Chicken Osteoblasts. Journal of Biological Chemistry, 1997, 272, 13966-13973.	3.4	51
83	Effects of OP-1 and PTH in a new experimental model for the study of metaphyseal bone healing. Journal of Orthopaedic Research, 2007, 25, 1193-1203.	2.3	51
84	Analysis of fracture healing by large-scale transcriptional profile identified temporal relationships between metalloproteinase and ADAMTS mRNA expression. Matrix Biology, 2006, 25, 271-281.	3.6	48
85	Combined effects of recombinant human BMP-7 (rhBMP-7) and parathyroid hormone (1â€“34) in metaphyseal bone healing. Bone, 2008, 43, 1031-1038.	2.9	48
86	Overview of Skeletal Repair (Fracture Healing and Its Assessment). Methods in Molecular Biology, 2014, 1130, 13-31.	0.9	48
87	Increased VEGF Expression in the Epiphyseal Cartilage After Ischemic Necrosis of the Capital Femoral Epiphysis. Journal of Bone and Mineral Research, 2004, 19, 2041-2048.	2.8	46
88	Identification and characterization of the major chicken bone phosphoprotein. Analysis of its synthesis by cultured embryonic chick osteoblasts. FEBS Journal, 1990, 187, 49-58.	0.2	45
89	Development of Avian Tibial Dyschondroplasia: Gene Expression and Protein Synthesis. Calcified Tissue International, 1998, 63, 521-527.	3.1	43
90	Structure, Composition, and Maturation of Newly Deposited Calcium-Phosphate Crystals in Chicken Osteoblast Cell Cultures. Journal of Bone and Mineral Research, 2000, 15, 1301-1309.	2.8	43

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91	Predominant integrin ligands expressed by osteoblasts show preferential regulation in response to both cell adhesion and mechanical perturbation. Journal of Cellular Biochemistry, 2002, 84, 497-508.	2.6	43
92	Tributyltin Engages Multiple Nuclear Receptor Pathways and Suppresses Osteogenesis in Bone Marrow Multipotent Stromal Cells. Chemical Research in Toxicology, 2015, 28, 1156-1166.	3.3	43
93	Correlation between RUST assessments of fracture healing to structural and biomechanical properties. Journal of Orthopaedic Research, 2018, 36, 945-953.	2.3	43
94	Transient Chondrogenic Phase in the Intramembranous Pathway During Normal Skeletal Development. Journal of Bone and Mineral Research, 2010, 15, 522-533.	2.8	42
95	Inhibitory effects of 1,25(OH)2 vitamin D3 on collagen type I, osteopontin, and osteocalcin gene expression in chicken osteoblasts. Journal of Cellular Biochemistry, 1995, 57, 440-451.	2.6	41
96	Osteopontin in Skeletal Tissue Homeostasis: An Emerging Picture of the Autocrine/Paracrine Functions of the Extracellular Matrix. Journal of Bone and Mineral Research, 1999, 14, 850-855.	2.8	40
97	Effects of fixation and demineralization on the retention of bone phosphoprotein and other matrix components as evaluated by biochemical analyses and quantitative immunocytochemistry. Journal of Bone and Mineral Research, 1991, 6, 937-945.	2.8	40
98	The transcriptome of fracture healing defines mechanisms of coordination of skeletal and vascular development during endochondral bone formation. Journal of Bone and Mineral Research, 2011, 26, 2597-2609.	2.8	37
99	Lysyl Oxidase-like-2 (LOXL2) Is a Major Isoform in Chondrocytes and Is Critically Required for Differentiation. Journal of Biological Chemistry, 2011, 286, 909-918.	3.4	37
100	Comparison of two phosphoproteins in chicken bone and their similarities to the mammalian bone proteins, osteopontin and bone sialoprotein II. Biochemical and Biophysical Research Communications, 1990, 173, 471-479.	2.1	34
101	Effect of caffeine on parameters of osteoblast growth and differentiation of a mineralized extracellular matrix in vitro. Journal of Bone and Mineral Research, 1991, 6, 1029-1036.	2.8	34
102	Characterization of the Apatite Crystals of Bone and their Maturation in Osteoblast Cell Culture: Comparison with Native Bone Crystals. Connective Tissue Research, 1996, 35, 343-349.	2.3	33
103	Comparative Morphological and Biochemical Analysis of Hypertrophic, Non-Hypertrophic and L, 25(Oh)₂d₃Treated Non-Hypertrophic Chondrocytes. Connective Tissue Research, 1990, 24, 29-39.	2.3	32
104	Molecular Events that Contribute to Lysyl Oxidase Enzyme Activity and Insoluble Collagen Accumulation in Osteosarcoma Cell Clones. Journal of Bone and Mineral Research, 2000, 15, 1189-1197.	2.8	31
105	Expression of smooth muscle actin in connective tissue cells participating in fracture healing in a murine model. Bone, 2002, 30, 738-745.	2.9	31
106	Vascular development during distraction osteogenesis proceeds by sequential intramuscular arteriogenesis followed by intraosteal angiogenesis. Bone, 2012, 51, 535-545.	2.9	30
107	Mechanical microenvironments and protein expression associated with formation of different skeletal tissues during bone healing. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1239-1253.	2.8	30
108	Characterization of Demineralized Bone Matrix-Induced Osteogenesis in Rat Calvarial Bone Defects: III. Gene and Protein Expression. Calcified Tissue International, 2000, 67, 314-320.	3.1	29

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109	Protein kinases of cultured osteoblasts: Selectivity for the extracellular matrix proteins of bone and their catalytic competence for osteopontin. Journal of Bone and Mineral Research, 1996, 11, 1461-1473.	2.8	29
110	COX inhibitors and their effects on bone healing. Expert Opinion on Drug Safety, 2004, 3, 131-136.	2.4	29
111	Structural analysis and characterization of tissue and hormonal responsive expression of the avian bone sialoprotein (BSP) gene. , 1997, 64, 77-93.		28
112	Tumor necrosis factor Î± activation of the apoptotic cascade in murine articular chondrocytes is associated with the induction of metalloproteinases and specific pro-resorptive factors. Arthritis and Rheumatism, 2003, 48, 2845-2854.	6.7	28
113	Anabolic role of lysyl oxidase like-2 in cartilage of knee and temporomandibular joints with osteoarthritis. Arthritis Research and Therapy, 2017, 19, 179.	3.5	28
114	Developmental Restriction of Embryonic Calvarial Cell Populations as Characterized by Their In Vitro Potential for Chondrogenic Differentiation. Journal of Bone and Mineral Research, 1997, 12, 2024-2039.	2.8	27
115	Earliest phases of chondrogenesis are dependent upon angiogenesis during ectopic bone formation in mice. Bone, 2017, 101, 49-61.	2.9	27
116	Characterization of the chicken osteopontin-encoding gene. Gene, 1994, 140, 163-169.	2.2	26
117	Acute Phosphate Restriction Impairs Bone Formation and Increases Marrow Adipose Tissue in Growing Mice. Journal of Bone and Mineral Research, 2016, 31, 2204-2214.	2.8	26
118	Acute phosphate restriction leads to impaired fracture healing and resistance to BMP-2. Journal of Bone and Mineral Research, 2010, 25, 724-733.	2.8	25
119	Role of Fas and Treg Cells in Fracture Healing as Characterized in the Fas-Deficient (lpr) Mouse Model of Lupus. Journal of Bone and Mineral Research, 2014, 29, 1478-1491.	2.8	25
120	AMPK downregulates ALK2 via increasing the interaction between Smurf1 and Smad6, leading to inhibition of osteogenic differentiation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 2369-2377.	4.1	25
121	Use of Cultured Embryonic Chicken Osteoblasts as a Model of Cellular Differentiation and Bone Mineralization. Connective Tissue Research, 1989, 21, 215-225.	2.3	24
122	Assessment of contrastâ€enhanced computed tomography for imaging of cartilage during fracture healing. Journal of Orthopaedic Research, 2013, 31, 567-573.	2.3	24
123	Intrinsic Sexâ€Linked Variations in Osteogenic and Adipogenic Differentiation Potential of Bone Marrow Multipotent Stromal Cells. Journal of Cellular Physiology, 2015, 230, 296-307.	4.1	24
124	Effect of protein-hydroxyethylmethacrylate hydrogels on cultured endothelial cells. Experimental Cell Research, 1983, 143, 15-25.	2.6	23
125	Functional role of Runx3 in the regulation of aggrecan expression during cartilage development. Journal of Cellular Physiology, 2013, 228, 2232-2242.	4.1	22
126	Experiments with osteoblasts cultured under hypergravity conditions. Microgravity Science and Technology, 2004, 15, 28-34.	1.4	21

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127	Characterization of an Avian Bone Sialoprotein (BSP) cDNA: Comparisons to Mammalian BSP and Identification of Conserved Structural Domains. Journal of Bone and Mineral Research, 1995, 10, 632-640.	2.8	21
128	Urine matrix metalloproteinases (MMPs) as biomarkers for the progression of fracture healing. Injury, 2012, 43, 274-278.	1.7	21
129	Immunohistochemical localization of a â^¼466 kD glycosylated phosphoprotein during development of the embryonic chick tibia. Calcified Tissue International, 1991, 48, 429-437.	3.1	19
130	Experiments with osteoblasts cultured under varying orientations with respect to the gravity vector. Cytotechnology, 2002, 39, 147-154.	1.6	19
131	Absence of mouse pleiotrophin does not affect bone formation in vivo. Bone, 2004, 35, 1247-1255.	2.9	19
132	Sex-Linked Skeletal Phenotype of Lysyl Oxidase Like-1 Mutant Mice. Calcified Tissue International, 2016, 98, 172-185.	3.1	19
133	Selective extractability of noncollagenous proteins from chicken bone. Calcified Tissue International, 1994, 55, 230-235.	3.1	18
134	Characterization of the Major Non-collagenous Proteins of Chicken Bone: Identification of a Novel 60-kDa Non-collagenous Phosphoprotein. Biochemical and Biophysical Research Communications, 1995, 208, 863-870.	2.1	18
135	Regulation of Avian Osteopontin Pre-and Posttranscriptional Expression in Skeletal Tissues. Annals of the New York Academy of Sciences, 1995, 760, 67-82.	3.8	18
136	From the Cover: Tributyltin Alters the Bone Marrow Microenvironment and Suppresses B Cell Development. Toxicological Sciences, 2017, 158, 63-75.	3.1	18
137	Ultrastructural Immunolocalization of a Major Phosphoprotein in Embryonic Chick Bone. Connective Tissue Research, 1989, 21, 21-29.	2.3	16
138	Transcriptional profiling and biochemical analysis of mechanically induced cartilaginous tissues in a rat model. Arthritis and Rheumatism, 2010, 62, 1108-1118.	6.7	16
139	Protein Kinases of Cultured Chicken Osteoblasts That Phosphorylate Extracellular Bone Proteins. Connective Tissue Research, 1996, 35, 207-213.	2.3	15
140	Serum proteomic assessment of the progression of fracture healing. Journal of Orthopaedic Research, 2018, 36, 1153-1163.	2.3	15
141	Tributyltin induces distinct effects on cortical and trabecular bone in female C57Bl/6J mice. Journal of Cellular Physiology, 2018, 233, 7007-7021.	4.1	13
142	Phosphorylation of Osteopontin by Golgi Kinases. Annals of the New York Academy of Sciences, 1995, 760, 296-298.	3.8	12
143	Cytokines and fracture healing. Current Opinion in Orthopaedics, 2001, 12, 403-408.	0.3	12
144	MRT letter: Contrastâ€enhanced computed tomographic imaging of soft callus formation in fracture healing. Microscopy Research and Technique, 2012, 75, 7-14.	2.2	12

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145	Hypophosphatemia Regulates Molecular Mechanisms of Circadian Rhythm. Scientific Reports, 2018, 8, 13756.	3.3	12
146	Lysyl Oxidase-Like 2 Protects against Progressive and Aging Related Knee Joint Osteoarthritis in Mice. International Journal of Molecular Sciences, 2019, 20, 4798.	4.1	12
147	Generation of Closed Transverse Fractures in Small Animals. Methods in Molecular Biology, 2014, 1130, 35-44.	0.9	11
148	BMPR1A antagonist differentially affects cartilage and bone formation during fracture healing. Journal of Orthopaedic Research, 2016, 34, 2096-2105.	2.3	10
149	Expression of smooth muscle actin in cells involved in distraction osteogenesis in a rat model. Journal of Orthopaedic Research, 2003, 21, 20-27.	2.3	9
150	Overview of Skeletal Repair (Fracture Healing and Its Assessment). Methods in Molecular Biology, 2021, 2230, 17-37.	0.9	9
151	Post natal expression of Prx1 labels appendicular restricted progenitor cell populations of multiple tissues. Journal of Cellular Physiology, 2022, 237, 2550-2560.	4.1	9
152	Chondrogenic potential of skeletal cell populations: Selective growth of chondrocytes and their morphogenesis and development in vitro. , 1998, 43, 156-173.		8
153	Transcriptional regulation restricting bone sialoprotein gene expression to both hypertrophic chondrocytes and osteoblasts. Journal of Cellular Biochemistry, 2002, 87, 458-469.	2.6	8
154	LOXL2 promotes aggrecan and gender-specific anabolic differences to TMJ cartilage. Scientific Reports, 2020, 10, 20179.	3.3	8
155	Identification of the In Vivo Phosphorylated Sites of Secreted Osteopontin from Cultured Chicken Osteoblasts. Annals of the New York Academy of Sciences, 1995, 760, 357-360.	3.8	7
156	The Effects of Injury Magnitude on the Kinetics of the Acute Phase Response. Journal of Trauma, 2011, 70, 948-953.	2.3	7
157	Skeletal trauma generates systemic BMP2 activation that is temporally related to the mobilization of CD73+ cells. Journal of Orthopaedic Research, 2014, 32, 17-23.	2.3	7
158	Local Changes to the Distal Femoral Growth Plate Following Injury in Mice. Journal of Biomechanical Engineering, 2017, 139, .	1.3	6
159	Genetic variation in the structural pattern of osteoclast activity during post-natal growth of mouse femora. Bone, 2010, 46, 1546-1554.	2.9	5
160	Osteogenic Growth Factors and Cytokines and Their Role in Bone Repair. , 2007, , 17-45.		5
161	Maternal GNAS Contributes to the Extra-Large G Protein Î±-Subunit (XLÎ±s) Expression in a Cell Type-Specific Manner. Frontiers in Genetics, 2021, 12, 680537.	2.3	4
162	Temporal and Quantitative Transcriptomic Differences Define Sexual Dimorphism in Murine Postnatal Bone Aging. JBMR Plus, 2022, 6, e10579.	2.7	4

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163	Cell-free translation of the vitamin K-dependent bone protein osteocalcin. Biochemical and Biophysical Research Communications, 1985, 132, 240-244.	2.1	3
164	Clustering of temporal gene expression data with mixtures of mixed effects models with a penalized likelihood. Bioinformatics, 2019, 35, 778-786.	4.1	3
165	Structural features of subchondral bone cysts and adjacent tissues in hip osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 1130-1139.	1.3	3
166	The Role of the Immune System inÂFracture Healing. , 2016, , 297-310.		2
167	Generation of Closed Transverse Fractures in Small Animals. Methods in Molecular Biology, 2021, 2230, 63-73.	0.9	2
168	Spatial assessment of femoral neck bone density and microstructure in hip osteoarthritis. Bone Reports, 2022, 16, 101155.	0.4	2
169	Identification of Known and Novel Long Noncoding RNAs Potentially Responsible for the Effects of Bone Mineral Density (BMD) Genomewide Association Study (GWAS) Loci. Journal of Bone and Mineral Research, 2020, 37, 1500-1510.	2.8	2
170	Inhibition of Osteoblast Differentiation by JAK2V617F Megakaryocytes Derived From Male Mice With Primary Myelofibrosis. Frontiers in Oncology, 0, 12, .	2.8	1
171	A primer on radiographic assessment of skeletal growth. Trends in Endocrinology and Metabolism, 2004, 15, 5.	7.1	0
172	The Role of the Immune System in Fracture Healing. , 2011, , 343-367.		0
173	A 3d Histomorphometric Method for Analyses of Skeletal Tissue Mechanobiology. , 2007, , .		0
174	Hyaline Characteristics of Mechanically Induced Cartilaginous Tissues. , 2007, , .		0
175	A Novel Experimental Technique for Quantifying the Local Mechanical Environment of Skeletal Tissues. , 2007, , .		0
176	Quantitative, 3-D Imaging to Co-Localize Bone and Vasculature Tissues During Bone Healing. , 2010, , .		0
177	New Regulatory Mechanisms of Bone Marrow Mesenchymal Stem Cell Differentiation Involving An Adenosine Receptor.. Blood, 2010, 116, 2584-2584.	1.4	0
178	Cartilage Imaging and Other Novel Assessments of Bone Repair. FASEB Journal, 2013, 27, 317.1.	0.5	0