Gerstenfeld Lc

List of Publications by Year
in descending order

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178 papers	18,021 citations	15880 67 h-index	14779 131 g-index
180 all docs	180 docs citations	180 times ranked	15654 citing authors

#	Article	IF	Citations
1	Temporal and Quantitative Transcriptomic Differences Define Sexual Dimorphism in Murine Postnatal Bone Aging. JBMR Plus, 2022, 6, e10579.	1.3	4
2	Spatial assessment of femoral neck bone density and microstructure in hip osteoarthritis. Bone Reports, 2022, 16, 101155.	0.2	2
3	Post natal expression of Prx1 labels appendicular restricted progenitor cell populations of multiple tissues. Journal of Cellular Physiology, 2022, 237, 2550-2560.	2.0	9
4	Structural features of subchondral bone cysts and adjacent tissues in hip osteoarthritis. Osteoarthritis and Cartilage, 2022, 30, 1130-1139.	0.6	3
5	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.	1.1	4
6	Overview of Skeletal Repair (Fracture Healing and Its Assessment). Methods in Molecular Biology, 2021, 2230, 17-37.	0.4	9
7	Generation of Closed Transverse Fractures in Small Animals. Methods in Molecular Biology, 2021, 2230, 63-73.	0.4	2
8	LOXL2 promotes aggrecan and gender-specific anabolic differences to TMJ cartilage. Scientific Reports, 2020, 10, 20179.	1.6	8
9	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.	3.1	2
10	Clustering of temporal gene expression data with mixtures of mixed effects models with a penalized likelihood. Bioinformatics, 2019, 35, 778-786.	1.8	3
11	Lysyl Oxidase-Like 2 Protects against Progressive and Aging Related Knee Joint Osteoarthritis in Mice. International Journal of Molecular Sciences, 2019, 20, 4798.	1.8	12
12	Serum proteomic assessment of the progression of fracture healing. Journal of Orthopaedic Research, 2018, 36, 1153-1163.	1.2	15
13	Correlation between RUST assessments of fracture healing to structural and biomechanical properties. Journal of Orthopaedic Research, 2018, 36, 945-953.	1.2	43
14	Tributyltin induces distinct effects on cortical and trabecular bone in female C57Bl/6J mice. Journal of Cellular Physiology, 2018, 233, 7007-7021.	2.0	13
15	Hypophosphatemia Regulates Molecular Mechanisms of Circadian Rhythm. Scientific Reports, 2018, 8, 13756.	1.6	12
16	From the Cover: Tributyltin Alters the Bone Marrow Microenvironment and Suppresses B Cell Development. Toxicological Sciences, 2017, 158, 63-75.	1.4	18
17	Earliest phases of chondrogenesis are dependent upon angiogenesis during ectopic bone formation in mice. Bone, 2017, 101, 49-61.	1.4	27
18	Local Changes to the Distal Femoral Growth Plate Following Injury in Mice. Journal of Biomechanical Engineering, 2017, 139, .	0.6	6

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19	TNFÎ± contributes to diabetes impaired angiogenesis in fracture healing. Bone, 2017, 99, 26-38.	1.4	61
20	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.	1.9	25
21	Anabolic role of lysyl oxidase like-2 in cartilage of knee and temporomandibular joints with osteoarthritis. Arthritis Research and Therapy, 2017, 19, 179.	1.6	28
22	The Role of the Immune System inÂFracture Healing. , 2016, , 297-310.		2
23	Acute Phosphate Restriction Impairs Bone Formation and Increases Marrow Adipose Tissue in Growing Mice. Journal of Bone and Mineral Research, 2016, 31, 2204-2214.	3.1	26
24	BMPR1A antagonist differentially affects cartilage and bone formation during fracture healing. Journal of Orthopaedic Research, 2016, 34, 2096-2105.	1.2	10
25	Sex-Linked Skeletal Phenotype of Lysyl Oxidase Like-1 Mutant Mice. Calcified Tissue International, 2016, 98, 172-185.	1.5	19
26	Diabetes reduces mesenchymal stem cells in fracture healing through a TNFÎ±-mediated mechanism. Diabetologia, 2015, 58, 633-642.	2.9	88
27	Tributyltin Engages Multiple Nuclear Receptor Pathways and Suppresses Osteogenesis in Bone Marrow Multipotent Stromal Cells. Chemical Research in Toxicology, 2015, 28, 1156-1166.	1.7	43
28	Mechanical microenvironments and protein expression associated with formation of different skeletal tissues during bone healing. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1239-1253.	1.4	30
29	Intrinsic Sexâ€Linked Variations in Osteogenic and Adipogenic Differentiation Potential of Bone Marrow Multipotent Stromal Cells. Journal of Cellular Physiology, 2015, 230, 296-307.	2.0	24
30	Fracture healing: mechanisms and interventions. Nature Reviews Rheumatology, 2015, 11, 45-54.	3.5	1,159
31	Skeletal trauma generates systemic BMP2 activation that is temporally related to the mobilization of CD73+ cells. Journal of Orthopaedic Research, 2014, 32, 17-23.	1.2	7
32	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.	3.1	25
33	Overview of Skeletal Repair (Fracture Healing and Its Assessment). Methods in Molecular Biology, 2014, 1130, 13-31.	0.4	48
34	Generation of Closed Transverse Fractures in Small Animals. Methods in Molecular Biology, 2014, 1130, 35-44.	0.4	11
35	VEGF and bone cell signalling: an essential vessel for communication?. Cell Biochemistry and Function, 2013, 31, 1-11.	1.4	115
36	Chemokine expression is upregulated in chondrocytes in diabetic fracture healing. Bone, 2013, 53, 294-300.	1.4	62

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37	Functional role of Runx3 in the regulation of aggrecan expression during cartilage development. Journal of Cellular Physiology, 2013, 228, 2232-2242.	2.0	22
38	Assessment of contrastâ€enhanced computed tomography for imaging of cartilage during fracture healing. Journal of Orthopaedic Research, 2013, 31, 567-573.	1.2	24
39	Cartilage Imaging and Other Novel Assessments of Bone Repair. FASEB Journal, 2013, 27, 317.1.	0.2	0
40	Vascular tissues are a primary source of BMP2 expression during bone formation induced by distraction osteogenesis. Bone, 2012, 51, 168-180.	1.4	112
41	Vascular development during distraction osteogenesis proceeds by sequential intramuscular arteriogenesis followed by intraosteal angiogenesis. Bone, 2012, 51, 535-545.	1.4	30
42	A2B Adenosine Receptor Promotes Mesenchymal Stem Cell Differentiation to Osteoblasts and Bone Formation in Vivo. Journal of Biological Chemistry, 2012, 287, 15718-15727.	1.6	141
43	Urine matrix metalloproteinases (MMPs) as biomarkers for the progression of fracture healing. Injury, 2012, 43, 274-278.	0.7	21
44	MRT letter: Contrastâ€enhanced computed tomographic imaging of soft callus formation in fracture healing. Microscopy Research and Technique, 2012, 75, 7-14.	1.2	12
45	FOXO1 modulates osteoblast differentiation. Bone, 2011, 48, 1043-1051.	1.4	71
46	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.	3.1	37
47	The Role of the Immune System in Fracture Healing. , 2011, , 343-367.		0
48	The Effects of Injury Magnitude on the Kinetics of the Acute Phase Response. Journal of Trauma, 2011, 70, 948-953.	2.3	7
49	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.	0.8	177
50	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.	1.6	37
51	Acute phosphate restriction leads to impaired fracture healing and resistance to BMP-2. Journal of Bone and Mineral Research, 2010, 25, 724-733.	3.1	25
52	Transient Chondrogenic Phase in the Intramembranous Pathway During Normal Skeletal Development. Journal of Bone and Mineral Research, 2010, 15, 522-533.	3.1	42
53	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.	3.1	139
54	Transcriptional profiling and biochemical analysis of mechanically induced cartilaginous tissues in a rat model. Arthritis and Rheumatism, 2010, 62, 1108-1118.	6.7	16

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55	Genetic variation in the structural pattern of osteoclast activity during post-natal growth of mouse femora. Bone, 2010, 46, 1546-1554.	1.4	5
56	Quantitative, 3-D Imaging to Co-Localize Bone and Vasculature Tissues During Bone Healing. , 2010, , .		0
57	New Regulatory Mechanisms of Bone Marrow Mesenchymal Stem Cell Differentiation Involving An Adenosine Receptor.. Blood, 2010, 116, 2584-2584.	0.6	0
58	Mechanical stimulation alters tissue differentiation and molecular expression during bone healing. Journal of Orthopaedic Research, 2009, 27, 1123-1132.	1.2	111
59	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.	3.1	189
60	Micro-computed tomography assessment of fracture healing: Relationships among callus structure, composition, and mechanical function. Bone, 2009, 44, 335-344.	1.4	216
61	Diabetes causes the accelerated loss of cartilage during fracture repair which is reversed by insulin treatment. Bone, 2009, 44, 357-363.	1.4	124
62	BMP2 is essential for post natal osteogenesis but not for recruitment of osteogenic stem cells. Bone, 2009, 45, 254-266.	1.4	91
63	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.	1.9	138
64	Transcriptional Analysis of Fracture Healing and the Induction of Embryonic Stem Cellâ€“Related Genes. PLoS ONE, 2009, 4, e5393.	1.1	96
65	Bone Formation During Distraction Osteogenesis Is Dependent on Both VEGFR1 and VEGFR2 Signaling. Journal of Bone and Mineral Research, 2008, 23, 596-609.	3.1	166
66	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.	3.1	53
67	Molecular Mechanisms Controlling Bone Formation during Fracture Healing and Distraction Osteogenesis. Journal of Dental Research, 2008, 87, 107-118.	2.5	552
68	Combined effects of recombinant human BMP-7 (rhBMP-7) and parathyroid hormone (1â€“34) in metaphyseal bone healing. Bone, 2008, 43, 1031-1038.	1.4	48
69	Colloidal-gold Immunocytochemical Localization of Osteopontin in Avian Eggshell Gland and Eggshell. Journal of Histochemistry and Cytochemistry, 2008, 56, 467-476.	1.3	54
70	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.	3.3	442
71	Stimulation of Fracture-Healing with Systemic Intermittent Parathyroid Hormone Treatment. Journal of Bone and Joint Surgery - Series A, 2008, 90, 120-127.	1.4	102
72	Healing of Segmental Bone Defects by Direct Percutaneous Gene Delivery: Effect of Vector Dose. Human Gene Therapy, 2007, 18, 907-915.	1.4	61

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73	The hypoxia-inducible factor Î± pathway couples angiogenesis to osteogenesis during skeletal development. Journal of Clinical Investigation, 2007, 117, 1616-1626.	3.9	616
74	Advanced glycation end products stimulate osteoblast apoptosis via the MAP kinase and cytosolic apoptotic pathways. Bone, 2007, 40, 345-353.	1.4	303
75	Autogenous regulation of a network of bone morphogenetic proteins (BMPs) mediates the osteogenic differentiation in murine marrow stromal cells. Bone, 2007, 40, 1389-1398.	1.4	82
76	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.	1.2	51
77	Delayed administration of adenoviral BMP-2 vector improves the formation of bone in osseous defects. Gene Therapy, 2007, 14, 1039-1044.	2.3	110
78	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.	3.1	210
79	Enhanced Chondrogenesis and Wnt Signaling in PTH-Treated Fractures. Journal of Bone and Mineral Research, 2007, 22, 1903-1912.	3.1	196
80	Expression and Role of Interleukin-6 in Distraction Osteogenesis. Calcified Tissue International, 2007, 80, 192-200.	1.5	61
81	Osteogenic Growth Factors and Cytokines and Their Role in Bone Repair. , 2007, , 17-45.		5
82	A 3d Histomorphometric Method for Analyses of Skeletal Tissue Mechanobiology. , 2007, , .		0
83	Hyaline Characteristics of Mechanically Induced Cartilaginous Tissues. , 2007, , .		0
84	A Novel Experimental Technique for Quantifying the Local Mechanical Environment of Skeletal Tissues. , 2007, , .		0
85	Analysis of fracture healing by large-scale transcriptional profile identified temporal relationships between metalloproteinase and ADAMTS mRNA expression. Matrix Biology, 2006, 25, 271-281.	1.5	48
86	BMP2 activity, although dispensable for bone formation, is required for the initiation of fracture healing. Nature Genetics, 2006, 38, 1424-1429.	9.4	708
87	Direct Percutaneous Gene Delivery to Enhance Healing of Segmental Bone Defects. Journal of Bone and Joint Surgery - Series A, 2006, 88, 355-365.	1.4	125
88	Three-dimensional Reconstruction of Fracture Callus Morphogenesis. Journal of Histochemistry and Cytochemistry, 2006, 54, 1215-1228.	1.3	164
89	Application of Histomorphometric Methods to the Study of Bone Repair. Journal of Bone and Mineral Research, 2005, 20, 1715-1722.	3.1	140
90	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.	1.4	231

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91	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.	3.3	174
92	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.	1.4	145
93	Fidelity of Runx2 Activity in Breast Cancer Cells Is Required for the Generation of Metastases-Associated Osteolytic Disease. Cancer Research, 2004, 64, 4506-4513.	0.4	133
94	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.	3.1	46
95	Experiments with osteoblasts cultured under hypergravity conditions. Microgravity Science and Technology, 2004, 15, 28-34.	0.7	21
96	Interactions of cisplatin with calcium phosphate nanoparticles: In vitro controlled adsorption and release. Journal of Orthopaedic Research, 2004, 22, 703-708.	1.2	94
97	Diabetes Causes Decreased Osteoclastogenesis, Reduced Bone Formation, and Enhanced Apoptosis of Osteoblastic Cells in Bacteria Stimulated Bone Loss. Endocrinology, 2004, 145, 447-452.	1.4	156
98	The role of angiogenesis in a murine tibial model of distraction osteogenesis. Bone, 2004, 34, 849-861.	1.4	135
99	Absence of mouse pleiotrophin does not affect bone formation in vivo. Bone, 2004, 35, 1247-1255.	1.4	19
100	A primer on radiographic assessment of skeletal growth. Trends in Endocrinology and Metabolism, 2004, 15, 5.	3.1	0
101	COX inhibitors and their effects on bone healing. Expert Opinion on Drug Safety, 2004, 3, 131-136.	1.0	70
102	COX inhibitors and their effects on bone healing. Expert Opinion on Drug Safety, 2004, 3, 131-6.	1.0	29
103	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.	3.1	379
104	Fracture healing as a post-natal developmental process: Molecular, spatial, and temporal aspects of its regulation. Journal of Cellular Biochemistry, 2003, 88, 873-884.	1.2	1,073
105	BMP treatment of C3H10T1/2 mesenchymal stem cells induces both chondrogenesis and osteogenesis. Journal of Cellular Biochemistry, 2003, 90, 1112-1127.	1.2	194
106	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
107	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.	1.2	307
108	Expression of smooth muscle actin in cells involved in distraction osteogenesis in a rat model. Journal of Orthopaedic Research, 2003, 21, 20-27.	1.2	9

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109	Expression of angiogenic factors during distraction osteogenesis. Bone, 2003, 33, 889-898.	1.4	178
110	Diabetes Interferes with the Bone Formation by Affecting the Expression of Transcription Factors that Regulate Osteoblast Differentiation. Endocrinology, 2003, 144, 346-352.	1.4	292
111	Effects of the local mechanical environment on vertebrate tissue differentiation during repair: does repair recapitulate development?. Journal of Experimental Biology, 2003, 206, 2459-2471.	0.8	52
112	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.	0.4	165
113	Expression of smooth muscle actin in connective tissue cells participating in fracture healing in a murine model. Bone, 2002, 30, 738-745.	1.4	31
114	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.	1.2	43
115	Transcriptional regulation restricting bone sialoprotein gene expression to both hypertrophic chondrocytes and osteoblasts. Journal of Cellular Biochemistry, 2002, 87, 458-469.	1.2	8
116	Induction of a neoarthrosis by precisely controlled motion in an experimental mid-femoral defect. Journal of Orthopaedic Research, 2002, 20, 579-586.	1.2	56
117	Chondrocytes Provide Morphogenic Signals That Selectively Induce Osteogenic Differentiation of Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 2002, 17, 221-230.	3.1	107
118	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.	3.1	610
119	Experiments with osteoblasts cultured under varying orientations with respect to the gravity vector. Cytotechnology, 2002, 39, 147-154.	0.7	19
120	Cytokines and fracture healing. Current Opinion in Orthopaedics, 2001, 12, 403-408.	0.3	12
121	Induction of apoptosis in chondrocytes by tumor necrosis factor-alpha. Journal of Orthopaedic Research, 2001, 19, 785-796.	1.2	138
122	Neuropilin-1 expression in osteogenic cells: Down-regulation during differentiation of osteoblasts into osteocytes. Journal of Cellular Biochemistry, 2001, 81, 82-92.	1.2	67
123	Expression of Osteoprotegerin, Receptor Activator of NFâ€ºB Ligand (Osteoprotegerin Ligand) and Related Proinflammatory Cytokines During Fracture Healing. Journal of Bone and Mineral Research, 2001, 16, 1004-1014.	3.1	480
124	Impaired Intramembranous Bone Formation during Bone Repair in the Absence of Tumor Necrosis Factor-Alpha Signaling. Cells Tissues Organs, 2001, 169, 285-294.	1.3	206
125	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.	1.1	172
126	Experimental Use of Fibrin Glue to Induce Site-Directed Osteogenesis from Cultured Periosteal Cells. Plastic and Reconstructive Surgery, 2000, 105, 953-963.	0.7	89

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127	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.	3.1	31
128	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.	3.1	43
129	Characterization of Demineralized Bone Matrix-Induced Osteogenesis in Rat Calvarial Bone Defects: III. Gene and Protein Expression. Calcified Tissue International, 2000, 67, 314-320.	1.5	29
130	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.	4.2	183
131	Spaceflight Effects on Cultured Embryonic Chick Bone Cells. Journal of Bone and Mineral Research, 2000, 15, 1099-1112.	3.1	67
132	Growth Factor Regulation of Fracture Repair. Journal of Bone and Mineral Research, 1999, 14, 1805-1815.	3.1	416
133	Medium Perfusion Enhances Osteogenesis by Murine Osteosarcoma Cells in Three-Dimensional Collagen Sponges. Journal of Bone and Mineral Research, 1999, 14, 2118-2126.	3.1	89
134	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.	3.1	40
135	Chondrogenic potential of skeletal cell populations: Selective growth of chondrocytes and their morphogenesis and development in vitro. , 1998, 43, 156-173.		8
136	Osteoblast cytoskeletal modulation in response to mechanical strainin vitro. Journal of Orthopaedic Research, 1998, 16, 170-180.	1.2	90
137	Development of Avian Tibial Dyschondroplasia: Gene Expression and Protein Synthesis. Calcified Tissue International, 1998, 63, 521-527.	1.5	43
138	Identification of the Phosphorylated Sites of Metabolically 32P-Labeled Osteopontin from Cultured Chicken Osteoblasts. Journal of Biological Chemistry, 1997, 272, 13966-13973.	1.6	51
139	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.	3.1	164
140	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.	3.1	27
141	Structural analysis and characterization of tissue and hormonal responsive expression of the avian bone sialoprotein (BSP) gene. , 1997, 64, 77-93.		28
142	Signal Transduction Pathways Mediating Parathyroid Hormone Stimulation of Bone Sialoprotein Gene Expression in Osteoblasts. Journal of Biological Chemistry, 1996, 271, 29839-29846.	1.6	51
143	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.	1.1	33
144	Protein Kinases of Cultured Chicken Osteoblasts That Phosphorylate Extracellular Bone Proteins. Connective Tissue Research, 1996, 35, 207-213.	1.1	15

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145	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.	3.1	29
146	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.	1.2	41
147	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.	1.0	18
148	Regulation of Avian Osteopontin Pre-and Posttranscriptional Expression in Skeletal Tissues. Annals of the New York Academy of Sciences, 1995, 760, 67-82.	1.8	18
149	Phosphorylation of Osteopontin by Golgi Kinases. Annals of the New York Academy of Sciences, 1995, 760, 296-298.	1.8	12
150	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.	1.8	7
151	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.	3.1	54
152	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.	3.1	21
153	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.	3.1	66
154	Fibronectin gene expression, synthesis, and accumulation during in vitro differentiation of chicken osteoblasts. Journal of Bone and Mineral Research, 1995, 10, 1969-1977.	3.1	61
155	Selective extractability of noncollagenous proteins from chicken bone. Calcified Tissue International, 1994, 55, 230-235.	1.5	18
156	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.	1.2	143
157	Characterization of the chicken osteopontin-encoding gene. Gene, 1994, 140, 163-169.	1.0	26
158	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.	1.2	124
159	Post-translational control of collagen fibrillogenesis in mineralizing cultures of chick osteoblasts. Journal of Bone and Mineral Research, 1993, 8, 1031-1043.	3.1	73
160	Characterization of a cDNA for chicken osteopontin: expression during bone development, osteoblast differentiation, and tissue distribution. Biochemistry, 1991, 30, 2501-2508.	1.2	84
161	Immunohistochemical localization of a â^¼466 kD glycosylated phosphoprotein during development of the embryonic chick tibia. Calcified Tissue International, 1991, 48, 429-437.	1.5	19
162	Gene expression and extracellular matrix ultrastructure of a mineralizing chondrocyte cell culture system.. Journal of Cell Biology, 1991, 112, 501-513.	2.3	126

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163	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.	3.1	40
164	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.	3.1	34
165	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
166	Factors that promote progressive development of the osteoblast phenotype in cultured fetal rat calvaria cells. Journal of Cellular Physiology, 1990, 143, 213-221.	2.0	490
167	Effect of 1,25-Dihydroxyvitamin D3 on Induction of Chondrocyte Maturation in Culture: Extracellular Matrix Gene Expression and Morphology*. Endocrinology, 1990, 126, 1599-1609.	1.4	62
168	Comparative Morphological and Biochemical Analysis of Hypertrophic, Non-Hypertrophic and L, 25(Oh)₂d₃Treated Non-Hypertrophic Chondrocytes. Connective Tissue Research, 1990, 24, 29-39.	1.1	32
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