Barbara D Boyan

List of Articles by Year in descending order

Source: //exaly.com/author-pdf/7009234/publications.pdf

Version: 2025-02-01

405 peer-reviewed articles	21,721 peer-reviewed citations	10972 70 peer-reviewed h-index	1536223 1.78 score
430 documents	24480 doc citations	12104 74 h-index	31399 citing authors

#	Article	IF	Citations
1	Bone Marrow Stromal Cells Generate a Pro-Healing Inflammasome When Cultured on Titanium–Aluminum–Vanadium Surfaces with Microscale/Nanoscale Structural Features. Biomimetics, 2025, 10, 66.	2.4	5
2	Non-Canonical Wnt16 and microRNA-145 Mediate the Response of Human Bone Marrow Stromal Cells to Additively Manufactured Porous 3-Dimensional Biomimetic Titanium–Aluminum–Vanadium Constructs. Cells, 2025, 14, 211.	3.3	0
3	Rapidly Polymerizing Click Hydrogel Provides Localized Delivery of <scp>rhBMP2</scp> to Promote Bone Formation. Pharmacology Research and Perspectives, 2025, 13, .	1.5	2
4	Titanium–Aluminum–Vanadium Surfaces Generated Using Sequential Nanosecond and Femtosecond Laser Etching Provide Osteogenic Nanotopography on Additively Manufactured Implants. Biomimetics, 2025, 10, 507.	2.4	1
5	Internal surface modification of additively manufactured macroporous TiAl6V4 biomimetic implants via a calciothermic reaction-based process and osteogenic in vivo responses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2024, 112, .	2.0	1
6	Regulatory Pathways in Growth Plate Chondrocytes that Are Impacted by Matrix Vesicle microRNA Identified by Targeted RISC Pulldown and Sequencing of the Resulting Transcriptome. Calcified Tissue International, 2024, 114, 409-418.	1.7	3
7	Wnt16 Increases Bone-to-Implant Contact in an Osteopenic Rat Model by Increasing Proliferation and Regulating the Differentiation of Bone Marrow Stromal Cells. Annals of Biomedical Engineering, 2024, 52, 1744-1762.	2.7	2
8	Different Methods to Modify the Hydrophilicity of Titanium Implants with Biomimetic Surface Topography to Induce Variable Responses in Bone Marrow Stromal Cells. Biomimetics, 2024, 9, 227.	2.4	16
9	Strategies for Improving Impaired Osseointegration in Compromised Animal Models. Journal of Dental Research, 2024, 103, 467-476.	3.8	19
10	Estradiol induces bone osteolysis in triple–negative breast cancer via its membrane–associated receptor ERα36. JBMR Plus, 2024, 8, .	1.5	5
11	Reduced osseointegration in disuse and denervation rat models results from impaired cellular responses to multiscale microstructured titanium surfaces. Journal of Orthopaedic Research, 2024, 42, 1984-1997.	1.5	0
12	Laryngeal Cancer Cells Metabolize 25-Hydroxyvitamin D3 and Respond to 24R,25-dihydroxyvitamin D3 via a Mechanism Dependent on Estrogen Receptor Levels. Cancers, 2024, 16, 1635.	2.7	3
13	Influence of Sex and Gender on Musculoskeletal Conditions and How They Are Reported. Journal of Bone and Joint Surgery - Series A, 2024, 106, 1512-1519.	2.5	19
14	Bone marrow stromal cells are sensitive to discrete surface alterations in build and post-build modifications of bioinspired Ti6Al4V 3D-printed in vitro testing constructs. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 829-845.	2.0	4
15	Semaphorin 3A delivered by a rapidly polymerizing click hydrogel overcomes impaired implant osseointegration in a rat type 2 diabetes model. Acta Biomaterialia, 2023, 157, 236-251.	6.7	25
16	Bone marrow stromal cells generate an osteoinductive microenvironment when cultured on titanium–aluminum–vanadium substrates with biomimetic multiscale surface roughness. Biomedical Materials (Bristol), 2023, 18, 035001.	2.3	9
17	1α,25-Dihydroxyvitamin D3 Regulates microRNA Packaging in Extracellular Matrix Vesicles and Their Release in the Matrix. Calcified Tissue International, 2023, 112, 493-511.	1.7	1
18	Osseointegration of Titanium Implants in a Botox-Induced Muscle Paralysis Rat Model Is Sensitive to Surface Topography and Semaphorin 3A Treatment. Biomimetics, 2023, 8, 93.	2.4	7

#	Article	IF	Citations
19	Local production of active vitamin D3 metabolites in breast cancer cells by CYP24A1 and CYP27B1. Journal of Steroid Biochemistry and Molecular Biology, 2023, 232, 106331.	1.8	12
20	Osteoblast-Derived Matrix Vesicles Exhibit Exosomal Traits and a Unique Subset of microRNA: Their Caveolae-Dependent Endocytosis Results in Reduced Osteogenic Differentiation. International Journal of Molecular Sciences, 2023, 24, 12770.	3.2	14
21	miR-122 and the WNT/β-catenin pathway inhibit effects of both interleukin-1β and tumor necrosis factor-α in articular chondrocytes in vitro. Journal of Cellular Biochemistry, 2022, 123, 1053-1063.	1.8	13
22	Human Bone Marrow Stromal Cell Exosomes Ameliorate Periodontitis. Journal of Dental Research, 2022, 101, 1110-1118.	3.8	32
23	The Biological Basis for Surface-dependent Regulation of Osteogenesis and Implant Osseointegration. Journal of the American Academy of Orthopaedic Surgeons, The, 2022, 30, e894-e898.	1.5	16
24	Hydrophilic implants generated using a low-cost dielectric barrier discharge plasma device at the time of placement exhibit increased osseointegration in an animal pre-clinical study: An effect that is sex-dependent. Dental Materials, 2022, 38, 632-645.	2.7	13
25	A Review of Biomimetic Topographies and Their Role in Promoting Bone Formation and Osseointegration: Implications for Clinical Use. Biomimetics, 2022, 7, 46.	2.4	42
26	The Role of Matrix-Bound Extracellular Vesicles in the Regulation of Endochondral Bone Formation. Cells, 2022, 11, 1619.	3.3	40
27	Tailoring of TiAl6V4 Surface Nanostructure for Enhanced In Vitro Osteoblast Response via Gas/Solid (Non-Line-of-Sight) Oxidation/Reduction Reactions. Biomimetics, 2022, 7, 117.	2.4	5
28	Osseointegration and Remodeling of Mineralized Bone Graft Are Negatively Impacted by Prior Treatment with Bisphosphonates. Journal of Bone and Joint Surgery - Series A, 2022, 104, 1750-1759.	2.5	10
29	Prophylactic administration of miR-451 inhibitor decreases osteoarthritis severity in rats. Scientific Reports, 2022, 12, .	2.7	3
30	Growth factors produced by bone marrow stromal cells on nanoroughened titanium–aluminum–vanadium surfaces program distal MSCs into osteoblasts via BMP2 signaling. Journal of Orthopaedic Research, 2021, 39, 1908-1920.	1.5	16
31	Regulation of inflammatory and catabolic responses to IL-1β in rat articular chondrocytes by microRNAs miR-122 and miR-451. Osteoarthritis and Cartilage, 2021, 29, 113-123.	3.0	27
32	The Relative Expression of ERα Isoforms ERα66 and ERα36 Controls the Cellular Response to 24R,25-Dihydroxyvitamin D3 in Breast Cancer. Molecular Cancer Research, 2021, 19, 99-111.	2.0	8
33	Benchtop plasma treatment of titanium surfaces enhances cell response. Dental Materials, 2021, 37, 690-700.	2.7	28
34	Specific MicroRNAs Found in Extracellular Matrix Vesicles Regulate Proliferation and Differentiation in Growth Plate Chondrocytes. Calcified Tissue International, 2021, 109, 455-468.	1.7	19
35	Advanced Glycation End Products Are Retained in Decellularized Muscle Matrix Derived from Aged Skeletal Muscle. International Journal of Molecular Sciences, 2021, 22, 8832.	3.2	23
36	Differential Effects of Neurectomy and Botox-induced Muscle Paralysis on Bone Phenotype and Titanium Implant Osseointegration. Bone, 2021, 153, 116145.	2.3	19

#	Article	IF	Citations
37	Sex-specific effects of 17β-estradiol and dihydrotestosterone (DHT) on growth plate chondrocytes are dependent on both ERα and ERβ and require palmitoylation to translocate the receptors to the plasma membrane. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 159028.	1.5	5
38	RNU (Foxn1RNU-Nude) Rats Demonstrate an Improved Ability to Regenerate Muscle in a Volumetric Muscle Injury Compared to Sprague Dawley Rats. Bioengineering, 2021, 8, 12.	2.3	13
39	Acellular mineralized allogenic block bone graft does not remodel during the 10 weeks following concurrent implant placement in a rabbit femoral model. Clinical Oral Implants Research, 2020, 31, 37-48.	3.7	10
40	Loss of Estrogen Receptors is Associated with Increased Tumor Aggression in Laryngeal Squamous Cell Carcinoma. Scientific Reports, 2020, 10, .	2.7	24
41	Regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by semaphorin 3A. Bone, 2020, 134, 115260.	2.3	38
42	Titanium implant surface properties enhance osseointegration in ovariectomy induced osteoporotic rats without pharmacologic intervention. Clinical Oral Implants Research, 2020, 31, 374-387.	3.7	39
43	Bisphosphonates inhibit surface-mediated osteogenesis. Journal of Biomedical Materials Research - Part A, 2020, 108, 1774-1786.	2.8	28
44	Advances in Porous Scaffold Design for Bone and Cartilage Tissue Engineering and Regeneration. Tissue Engineering - Part B: Reviews, 2019, 25, 14-29.	3.1	267
45	24R,25-dihydroxyvitamin D3 modulates tumorigenicity in breast cancer in an estrogen receptor-dependent manner. Steroids, 2019, 150, 108447.	1.8	9
46	Osteoblasts grown on microroughened titanium surfaces regulate angiogenic growth factor production through specific integrin receptors. Acta Biomaterialia, 2019, 97, 578-586.	6.7	42
47	Estrogen signaling and estrogen receptors as prognostic indicators in laryngeal cancer. Steroids, 2019, 152, 108498.	1.8	30
48	24R,25-Dihydroxyvitamin D3 regulates breast cancer cells in vitro and in vivo. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1498-1512.	1.6	19
49	Integrin-α7 signaling regulates connexin 43, M-cadherin, and myoblast fusion. American Journal of Physiology - Cell Physiology, 2019, 316, C876-C887.	2.9	37
50	Ibandronate Treatment Before and After Implant Insertion Impairs Osseointegration in Aged Rats with Ovariectomy Induced Osteoporosis. JBMR Plus, 2019, 3, .	1.5	19
51	VEGF-A regulates angiogenesis during osseointegration of Ti implants via paracrine/autocrine regulation of osteoblast response to hierarchical microstructure of the surface. Journal of Biomedical Materials Research - Part A, 2019, 107, 423-433.	2.8	35
52	Effect of 17β-estradiol on estrogen receptor negative breast cancer cells in an osteolytic mouse model. Steroids, 2019, 142, 28-33.	1.8	6
53	Regulation of extracellular matrix vesicles via rapid responses to steroid hormones during endochondral bone formation. Steroids, 2019, 142, 43-47.	1.8	13
54	Estradiol receptor profile and estrogen responsiveness in laryngeal cancer and clinical outcomes. Steroids, 2019, 142, 34-42.	1.8	18

#	Article	IF	Citations
55	Decellularized Muscle Supports New Muscle Fibers and Improves Function Following Volumetric Injury. Tissue Engineering - Part A, 2018, 24, 1228-1241.	1.9	43
56	Regulation of osteoclasts by osteoblast lineage cells depends on titanium implant surface properties. Acta Biomaterialia, 2018, 68, 296-307.	6.7	87
57	MicroRNA Contents in Matrix Vesicles Produced by Growth Plate Chondrocytes are Cell Maturation Dependent. Scientific Reports, 2018, 8, .	2.7	34
58	Imaging analysis of the interface between osteoblasts and microrough surfaces of laser-sintered titanium alloy constructs. Journal of Microscopy, 2018, 270, 41-52.	1.0	4
59	Surface modification of bulk titanium substrates for biomedical applications via low-temperature microwave hydrothermal oxidation. Journal of Biomedical Materials Research - Part A, 2018, 106, 782-796.	2.8	18
60	Microencapsulated rabbit adipose stem cells initiate tissue regeneration in a rabbit ear defect model. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1742-1753.	1.5	13
61	Platelet-rich plasma and alignment enhance myogenin via ERK mitogen activated protein kinase signaling. Biomedical Materials (Bristol), 2018, 13, 055009.	2.3	6
62	Human osteoblasts exhibit sexual dimorphism in their response to estrogen on microstructured titanium surfaces. Biology of Sex Differences, 2018, 9, .	2.7	26
63	Role of Wnt11 during Osteogenic Differentiation of Human Mesenchymal Stem Cells on Microstructured Titanium Surfaces. Scientific Reports, 2018, 8, .	2.7	34
64	Effects of Tunable Keratin Hydrogel Erosion on Recombinant Human Bone Morphogenetic Protein 2 Release, Bioactivity, and Bone Induction. Tissue Engineering - Part A, 2018, 24, 1616-1630.	1.9	16
65	Comparable responses of osteoblast lineage cells to microstructured hydrophilic titanium–zirconium and microstructured hydrophilic titanium. Clinical Oral Implants Research, 2017, 28, .	3.7	43
66	Dental implant surface chemistry and energy alter macrophage activation in vitro. Clinical Oral Implants Research, 2017, 28, 414-423.	3.7	102
67	Laser Sintered Porous Ti–6Al–4V Implants Stimulate Vertical Bone Growth. Annals of Biomedical Engineering, 2017, 45, 2025-2035.	2.7	52
68	Performance of laser sintered Ti–6Al–4V implants with bone-inspired porosity and micro/nanoscale surface roughness in the rabbit femur. Biomedical Materials (Bristol), 2017, 12, 025021.	2.3	53
69	Inhibition of angiogenesis impairs bone healing in an in vivo murine rapid resynostosis model. Journal of Biomedical Materials Research - Part A, 2017, 105, 2742-2749.	2.8	16
70	Galectin-1 promotes an M2 macrophage response to polydioxanone scaffolds. Journal of Biomedical Materials Research - Part A, 2017, 105, 2562-2571.	2.8	52
71	Bone Morphogenetic Protein 2 Alters Osteogenesis and Anti-Inflammatory Profiles of Mesenchymal Stem Cells Induced by Microtextured Titanium In Vitro . Tissue Engineering - Part A, 2017, 23, 1132-1141.	1.9	26
72	Roughness and Hydrophilicity as Osteogenic Biomimetic Surface Properties. Tissue Engineering - Part A, 2017, 23, 1479-1489.	1.9	185

#	Article	IF	Citations
73	Effects of low-frequency ultrasound treatment of titanium surface roughness on osteoblast phenotype and maturation. Clinical Oral Implants Research, 2017, 28, .	3.7	12
74	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. PLoS ONE, 2017, 12, e0170312.	1.5	205
75	Mineralization of three-dimensional osteoblast cultures is enhanced by the interaction of 1α,25-dihydroxyvitamin D3 and BMP2 via two specific vitamin D receptors. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 40-51.	1.5	30
76	24R,25-Dihydroxyvitamin D3 Protects against Articular Cartilage Damage following Anterior Cruciate Ligament Transection in Male Rats. PLoS ONE, 2016, 11, e0161782.	1.5	38
77	Novel hydrophilic nanostructured microtexture on direct metal laser sintered Ti-6Al-4V surfaces enhances osteoblast responsein vitroand osseointegration in a rabbit model. Journal of Biomedical Materials Research - Part A, 2016, 104, 2086-2098.	2.8	72
78	Using Mathematical Modeling to Design Effective Regenerative Medicine Strategies for Orthopaedics. Journal of the American Academy of Orthopaedic Surgeons, The, 2016, 24, e18-e19.	1.5	1
79	Enhanced Osteoblast Response to Porosity and Resolution of Additively Manufactured Ti-6Al-4V Constructs with Trabeculae-Inspired Porosity. 3D Printing and Additive Manufacturing, 2016, 3, 10-21.	1.7	31
80	Implant Surface Design Regulates Mesenchymal Stem Cell Differentiation and Maturation. Advances in Dental Research, 2016, 28, 10-17.	2.0	84
81	Selective enrichment of microRNAs in extracellular matrix vesicles produced by growth plate chondrocytes. Bone, 2016, 88, 47-55.	2.3	61
82	Role of integrin α7β1 signaling in myoblast differentiation on aligned polydioxanone scaffolds. Acta Biomaterialia, 2016, 39, 44-54.	6.7	31
83	Change in surface roughness by dynamic shape-memory acrylate networks enhances osteoblast differentiation. Biomaterials, 2016, 110, 34-44.	9.5	46
84	Laser-Sintered Constructs with Bio-inspired Porosity and Surface Micro/Nano-Roughness Enhance Mesenchymal Stem Cell Differentiation and Matrix Mineralization In Vitro. Calcified Tissue International, 2016, 99, 625-637.	1.7	35
85	Hydrogels derived from cartilage matrices promote induction of human mesenchymal stem cell chondrogenic differentiation. Acta Biomaterialia, 2016, 43, 139-149.	6.7	42
86	Osteogenic response of human MSCs and osteoblasts to hydrophilic and hydrophobic nanostructured titanium implant surfaces. Journal of Biomedical Materials Research - Part A, 2016, 104, 3137-3148.	2.8	88
87	Characterization of osteoarthritic human knees indicates potential sex differences. Biology of Sex Differences, 2016, 7, .	2.7	56
88	Novel Osteogenic Ti-6Al-4V Device For Restoration Of Dental Function In Patients With Large Bone Deficiencies: Design, Development And Implementation. Scientific Reports, 2016, 6, .	2.7	71
89	Craniosynostosis and Resynostosis. Journal of Dental Research, 2016, 95, 846-852.	3.8	20
90	Rapid steroid hormone actions via membrane receptors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2289-2298.	2.5	110

#	Article	IF	Citations
91	Development of a cell delivery system using alginate microbeads for tissue regeneration. Journal of Materials Chemistry B, 2016, 4, 3515-3525.	4.3	22
92	Titanium surface characteristics, including topography and wettability, alter macrophage activation. Acta Biomaterialia, 2016, 31, 425-434.	6.7	660
93	Role of integrin α2β1 in mediating osteoblastic differentiation on three-dimensional titanium scaffolds with submicron-scale texture. Journal of Biomedical Materials Research - Part A, 2015, 103, 1907-1918.	2.8	29
94	Spag17 Deficiency Results in Skeletal Malformations and Bone Abnormalities. PLoS ONE, 2015, 10, e0125936.	1.5	40
95	Implant Materials Generate Different Peri-implant Inflammatory Factors. Spine, 2015, 40, 399-404.	1.8	156
96	Role of α2β1 integrins in mediating cell shape on microtextured titanium surfaces. Journal of Biomedical Materials Research - Part A, 2015, 103, 564-573.	2.8	46
97	Role of integrin subunits in mesenchymal stem cell differentiation and osteoblast maturation on graphitic carbon-coated microstructured surfaces. Biomaterials, 2015, 51, 69-79.	9.5	97
98	Effect of Cell Origin and Timing of Delivery for Stem Cell-Based Bone Tissue Engineering Using Biologically Functionalized Hydrogels. Tissue Engineering - Part A, 2015, 21, 156-165.	1.9	41
99	A review of 1α,25(OH)2D3 dependent Pdia3 receptor complex components in Wnt5a non-canonical pathway signaling. Journal of Steroid Biochemistry and Molecular Biology, 2015, 152, 84-88.	1.8	33
100	Osteogenic Embryoid Body-Derived Material Induces Bone Formation In Vivo. Scientific Reports, 2015, 5, .	2.7	15
101	Coordinated regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by endogenous bone morphogenetic proteins. Bone, 2015, 73, 208-216.	2.3	40
102	Membrane-mediated actions of 1,25-dihydroxy vitamin D3: A review of the roles of phospholipase A2 activating protein and Ca2+/calmodulin-dependent protein kinase II. Journal of Steroid Biochemistry and Molecular Biology, 2015, 147, 81-84.	1.8	63
103	Membrane actions of 1α,25(OH)2D3 are mediated by Ca2+/calmodulin-dependent protein kinase II in bone and cartilage cells. Journal of Steroid Biochemistry and Molecular Biology, 2015, 145, 65-74.	1.8	32
104	Osteoblast maturation on microtextured titanium involves paracrine regulation of bone morphogenetic protein signaling. Journal of Biomedical Materials Research - Part A, 2015, 103, 1721-1731.	2.8	24
105	Accuracy of computer-guided implantation in a human cadaver model. Clinical Oral Implants Research, 2015, 26, 1143-1149.	3.7	21
106	24,25-(OH)2D3 Regulation of Matrix Vesicle Protein Kinase C Occurs Both During Biosynthesis and in the Extracellular Matrix. Calcified Tissue International, 2014, 61, 313-321.	1.7	9
107	TGFβ1 Regulates 25-Hydroxyvitamin D3 1α- and 24-Hydroxylase Activity in Cultured Growth Plate Chondrocytes in a Maturation-Dependent Manner. Calcified Tissue International, 2014, 64, 50-56.	1.7	12
108	Characterization of Distinct Classes of Differential Gene Expression in Osteoblast Cultures from Non-Syndromic Craniosynostosis Bone. Journal of Genomics, 2014, 2, 121-130.	0.4	12

#	Article	IF	Citations
109	Additively manufactured 3D porous Ti-6Al-4V constructs mimic trabecular bone structure and regulate osteoblast proliferation, differentiation and local factor production in a porosity and surface roughness dependent manner. Biofabrication, 2014, 6, 045007.	4.7	253
110	Superposition of nanostructures on microrough titanium–aluminum–vanadium alloy surfaces results in an altered integrin expression profile in osteoblasts. Connective Tissue Research, 2014, 55, 164-168.	1.2	23
111	Osteoblast response to nanocrystalline calcium hydroxyapatite depends on carbonate content. Journal of Biomedical Materials Research - Part A, 2014, 102, 3237-3242.	2.8	28
112	Osteoblast Lineage Cells Can Discriminate Microscale Topographic Features on Titanium–Aluminum–Vanadium Surfaces. Annals of Biomedical Engineering, 2014, 42, 2551-2561.	2.7	77
113	Rapid 1α,25(OH)2D3 membrane-mediated activation of Ca2+/calmodulin-dependent protein kinase II in growth plate chondrocytes requires Pdia3, PLAA and caveolae. Connective Tissue Research, 2014, 55, 125-128.	1.2	14
114	Role of ERα36 in membrane-associated signaling by estrogen. Steroids, 2014, 81, 74-80.	1.8	53
115	New insights on membrane mediated effects of 1α,25-dihydroxy vitamin D3 signaling in the musculoskeletal system. Steroids, 2014, 81, 81-87.	1.8	32
116	A review on the wettability of dental implant surfaces I: Theoretical and experimental aspects. Acta Biomaterialia, 2014, 10, 2894-2906.	6.7	475
117	Implant osseointegration and the role of microroughness and nanostructures: Lessons for spine implants. Acta Biomaterialia, 2014, 10, 3363-3371.	6.7	423
118	Estrogen receptor-alpha 36 mediates the anti-apoptotic effect of estradiol in triple negative breast cancer cells via a membrane-associated mechanism. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2796-2806.	2.5	41
119	Rapidly polymerizing injectable click hydrogel therapy to delay bone growth in a murine re-synostosis model. Biomaterials, 2014, 35, 9698-9708.	9.5	52
120	Mechanical stiffness as an improved single-cell indicator of osteoblastic human mesenchymal stem cell differentiation. Journal of Biomechanics, 2014, 47, 2197-2204.	1.6	67
121	A review on the wettability of dental implant surfaces II: Biological and clinical aspects. Acta Biomaterialia, 2014, 10, 2907-2918.	6.7	802
122	Signaling components of the 1α,25(OH)2D3-dependent Pdia3 receptor complex are required for Wnt5a calcium-dependent signaling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2365-2375.	2.5	32
123	Impaired Bone Formation in Pdia3 Deficient Mice. PLoS ONE, 2014, 9, e112708.	1.5	26
124	Adipose Stem Cell Microbeads as Production Sources for Chondrogenic Growth Factors. Journal of Stem Cells and Regenerative Medicine, 2014, 10, 38-48.	0.0	8
125	Addressing the gaps: sex differences in osteoarthritis of the knee. Biology of Sex Differences, 2013, 4, 4.	2.7	55
126	Hormonal modulation of connective tissue homeostasis and sex differences in risk for osteoarthritis of the knee. Biology of Sex Differences, 2013, 4, 3.	2.7	54

#	Article	IF	Citations
127	Controlled release of rat adipose-derived stem cells from alginate microbeads. Biomaterials, 2013, 34, 8172-8184.	9.5	71
128	Plasma membrane Pdia3 and VDR interact to elicit rapid responses to 1α,25(OH)2D3. Cellular Signalling, 2013, 25, 2362-2373.	2.7	92
129	Chaperone Properties of Pdia3 Participate in Rapid Membrane Actions of 1α,25-Dihydroxyvitamin D3. Molecular Endocrinology, 2013, 27, 1065-1077.	2.5	22
130	Sex-specific response of rat costochondral cartilage growth plate chondrocytes to 17β-estradiol involves differential regulation of plasma membrane associated estrogen receptors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1165-1172.	2.5	22
131	Tailoring Adipose Stem Cell Trophic Factor Production with Differentiation Medium Components to Regenerate Chondral Defects. Tissue Engineering - Part A, 2013, 19, 1451-1464.	1.9	28
132	Electrical polarization of titanium surfaces for the enhancement of osteoblast differentiation. Bioelectromagnetics, 2013, 34, 599-612.	1.2	32
133	Rough titanium alloys regulate osteoblast production of angiogenic factors. Spine Journal, 2013, 13, 1563-1570.	2.1	125
134	Rapid re-synostosis following suturectomy in pediatric mice is age and location dependent. Bone, 2013, 53, 284-293.	2.3	11
135	Microstructured titanium regulates interleukin production by osteoblasts, an effect modulated by exogenous BMP-2. Acta Biomaterialia, 2013, 9, 5821-5829.	6.7	38
136	The roles of titanium surface micro/nanotopography and wettability on the differential response of human osteoblast lineage cells. Acta Biomaterialia, 2013, 9, 6268-6277.	6.7	287
137	The Therapeutic Effect of Bone Marrow-Derived Stem Cell Implantation After Epiphyseal Plate Injury Is Abrogated by Chondrogenic Predifferentiation. Tissue Engineering - Part A, 2013, 19, 475-483.	1.9	18
138	Biphasic Fusion of the Murine Posterior Frontal Suture. Plastic and Reconstructive Surgery, 2013, 131, 727-740.	1.4	6
139	17Beta-Estradiol Promotes Aggressive Laryngeal Cancer Through Membrane-Associated Estrogen Receptor-Alpha 36. Hormones and Cancer, 2013, 5, 22-32.	2.8	31
140	Endogenous Regeneration of Critical-Size Chondral Defects in Immunocompromised Rat Xiphoid Cartilage Using Decellularized Human Bone Matrix Scaffolds. Tissue Engineering - Part A, 2012, 18, 2332-2342.	1.9	18
141	Osteogenic Differentiation of Stem Cells Alters Vitamin D Receptor Expression. Stem Cells and Development, 2012, 21, 1726-1735.	1.3	24
142	Osteoblasts exhibit a more differentiated phenotype and increased bone morphogenetic protein production on titanium alloy substrates than on poly-ether-ether-ketone. Spine Journal, 2012, 12, 265-272.	2.1	201
143	Mechanism of Pdia3-dependent 1α,25-dihydroxy vitamin D3 signaling in musculoskeletal cells. Steroids, 2012, 77, 892-896.	1.8	42
144	Rapid membrane responses to dihydrotestosterone are sex dependent in growth plate chondrocytes. Journal of Steroid Biochemistry and Molecular Biology, 2012, 132, 15-23.	1.8	18

#	Article	IF	Citations
145	Phospholipase A2 activating protein is required for 1α,25-dihydroxyvitamin D3 dependent rapid activation of protein kinase C via Pdia3. Journal of Steroid Biochemistry and Molecular Biology, 2012, 132, 48-56.	1.8	36
146	The responses to surface wettability gradients induced by chitosan nanofilms on microtextured titanium mediated by specific integrin receptors. Biomaterials, 2012, 33, 7386-7393.	9.5	109
147	Sex Differences in Osteoarthritis of the Knee. Journal of the American Academy of Orthopaedic Surgeons, The, 2012, 20, 668-669.	1.5	14
148	BMP2 induces osteoblast apoptosis in a maturation state and noggin-dependent manner. Journal of Cellular Biochemistry, 2012, 113, 3236-3245.	1.8	46
149	Differentiation of human mesenchymal stem cell spheroids under microgravity conditions. Cell Regeneration, 2012, 1, 1:2.	2.6	28
150	Differential responses of osteoblast lineage cells to nanotopographically-modified, microroughened titanium–aluminum–vanadium alloy surfaces. Biomaterials, 2012, 33, 8986-8994.	9.5	154
151	Interrelationship of Cranial Suture Fusion, Basicranial Development, and Resynostosis Following Suturectomy in Twist1+/− Mice, a Murine Model of Saethre-Chotzen Syndrome. Calcified Tissue International, 2012, 91, 255-266.	1.7	18
152	Adipose stem cells can secrete angiogenic factors that inhibit hyaline cartilage regeneration. Stem Cell Research and Therapy, 2012, 3, .	4.1	56
153	Effects of resveratrol on enrichment of adipose-derived stem cells and their differentiation to osteoblasts in two-and three-dimensional cultures. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, s34-s46.	1.5	26
154	Osteoblast maturation and new bone formation in response to titanium implant surface features are reduced with age. Journal of Bone and Mineral Research, 2012, 27, 1773-1783.	3.2	78
155	Membrane Estrogen Signaling Enhances Tumorigenesis and Metastatic Potential of Breast Cancer Cells via Estrogen Receptor-α36 (ERα36). Journal of Biological Chemistry, 2012, 287, 7169-7181.	1.3	99
156	Algorithm to Assess Cranial Suture Fusion with Varying and Discontinuous Mineral Density. Annals of Biomedical Engineering, 2012, 40, 1597-1609.	2.7	6
157	Effects of structural properties of electrospun TiO2 nanofiber meshes on their osteogenic potential. Acta Biomaterialia, 2012, 8, 878-885.	6.7	65
158	Effect of cleaning and sterilization on titanium implant surface properties and cellular response. Acta Biomaterialia, 2012, 8, 1966-1975.	6.7	197
159	Use of polyelectrolyte thin films to modulate Osteoblast response to microstructured titanium surfaces. Biomaterials, 2012, 33, 5267-5277.	9.5	34
160	Resveratrol effect on osteogenic differentiation of rat and human adipose derived stem cells in a 3-D culture environment. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 11, 112-122.	2.7	41
161	Bacterial Adhesion on Polyelectrolyte Modified Microstructured Titanium Surfaces. Materials Research Society Symposia Proceedings, 2011, 1277, .	0.1	0
162	Enhancement of Surface Wettability via the Modification of Microtextured Titanium Implant Surfaces with Polyelectrolytes. Langmuir, 2011, 27, 5976-5985.	3.0	48

#	Article	IF	Citations
163	Coordinated tether formation in anatomically distinct mice growth centers is dependent on a functional vitamin D receptor and is tightly linked to three-dimensional tissue morphology. Bone, 2011, 49, 419-427.	2.3	13
164	Electrical Implications of Corrosion for Osseointegration of Titanium Implants. Journal of Dental Research, 2011, 90, 1389-1397.	3.8	128
165	Osteoinductivity of Demineralized Bone Matrix Is Independent of Donor Bisphosphonate Use. Journal of Bone and Joint Surgery - Series A, 2011, 93, 2278-2286.	2.5	19
166	Fibrin Glue. Annals of Plastic Surgery, 2011, 66, 301-305.	0.8	19
167	Hyaluronic acid stimulates neovascularization during the regeneration of bone marrow after ablation. Journal of Biomedical Materials Research - Part A, 2011, 96A, 575-583.	2.8	31
168	Dendritic cell responses to surface properties of clinical titanium surfaces. Acta Biomaterialia, 2011, 7, 1354-1363.	6.7	73
169	Role of non-canonical Wnt signaling in osteoblast maturation on microstructured titanium surfaces. Acta Biomaterialia, 2011, 7, 2740-2750.	6.7	75
170	The effects of combined micron-/submicron-scale surface roughness and nanoscale features on cell proliferation and differentiation. Biomaterials, 2011, 32, 3395-3403.	9.5	800
171	Mediation of osteogenic differentiation of human mesenchymal stem cells on titanium surfaces by a Wnt-integrin feedback loop. Biomaterials, 2011, 32, 6399-6411.	9.5	140
172	17β-Estradiol Regulates Rat Growth Plate Chondrocyte Apoptosis Through a Mitochondrial Pathway Not Involving Nitric Oxide or MAPKs. Endocrinology, 2011, 152, 82-92.	1.8	20
173	'Smart' biomaterials and osteoinductivity. Nature Reviews Rheumatology, 2011, 7, 1-1.	17.6	1
174	Alginate Microencapsulation Technology for the Percutaneous Delivery of Adipose-Derived Stem Cells. Annals of Plastic Surgery, 2010, 65, 497-503.	0.8	55
175	Direct and indirect effects of microstructured titanium substrates on the induction of mesenchymal stem cell differentiation towards the osteoblast lineage. Biomaterials, 2010, 31, 2728-2735.	9.5	290
176	Use of molecular beacons to image effects of titanium surface microstructure on β1 integrin expression in live osteoblast-like cells. Biomaterials, 2010, 31, 7640-7647.	9.5	10
177	Regulation of angiogenesis during osseointegration by titanium surface microstructure and energy. Biomaterials, 2010, 31, 4909-4917.	9.5	223
178	Regulating in vivo calcification of alginate microbeads. Biomaterials, 2010, 31, 4926-4934.	9.5	62
179	The dependence of MG63 osteoblast responses to (meth)acrylate-based networks on chemical structure and stiffness. Biomaterials, 2010, 31, 6131-6141.	9.5	41
180	The roles of Wnt signaling modulators Dickkopf-1 (Dkk1) and Dickkopf-2 (Dkk2) and cell maturation state in osteogenesis on microstructured titanium surfaces. Biomaterials, 2010, 31, 2015-2024.	9.5	63

#	Article	IF	Citations
181	The synergistic effects of 3-D porous silk fibroin matrix scaffold properties and hydrodynamic environment in cartilage tissue regeneration. Biomaterials, 2010, 31, 4672-4681.	9.5	145
182	Sex dependent regulation of osteoblast response to implant surface properties by systemic hormones. Biology of Sex Differences, 2010, 1, .	2.7	28
183	Protein-disulfide Isomerase-associated 3 (Pdia3) Mediates the Membrane Response to 1,25-Dihydroxyvitamin D3 in Osteoblasts. Journal of Biological Chemistry, 2010, 285, 37041-37050.	1.3	95
184	A New Animal Model for Assessing Cartilage Repair and Regeneration at a Nonarticular Site. Tissue Engineering - Part A, 2010, 16, 2321-2330.	1.9	18
185	24R,25-Dihydroxyvitamin D3 [24R,25(OH)2D3] controls growth plate development by inhibiting apoptosis in the reserve zone and stimulating response to 1α,25(OH)2D3 in hypertrophic cells. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 212-216.	1.8	33
186	Disruption of Pdia3 gene results in bone abnormality and affects 1α,25-dihydroxy-vitamin D3-induced rapid activation of PKC. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 257-260.	1.8	46
187	24R,25-Dihydroxyvitamin D3, lysophosphatidic acid, and p53: A signaling axis in the inhibition of phosphate-induced chondrocyte apoptosis. Journal of Steroid Biochemistry and Molecular Biology, 2010, 122, 264-271.	1.8	29
188	Regeneration of bone marrow after tibial ablation in immunocompromised rats is age dependent. Bone, 2010, 46, 396-401.	2.3	11
189	Characterization of a small animal growth plate injury model using microcomputed tomography. Bone, 2010, 46, 1555-1563.	2.3	31
190	Proceedings from the Scientific Symposium: Sex Differences in Cardiovascular Disease and Implications for Therapies. Journal of Women's Health, 2010, 19, 1059-1072.	1.1	45
191	Inorganic Phosphate Induces Mammalian Growth Plate Chondrocyte Apoptosis in a Mitochondrial Pathway Involving Nitric Oxide and JNK MAP Kinase. Calcified Tissue International, 2010, 88, 96-108.	1.7	19
192	Protocol Development for Vitrification of Tissue-Engineered Cartilage. BioProcessing: Advances and Trends in Biological Product Development, 2010, 8, 29-36.	0.1	4
193	Lysophosphatidic acid signaling promotes proliferation, differentiation, and cell survival in rat growth plate chondrocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 836-846.	2.5	46
194	Potential of chemically modified hydrophilic surface characteristics to support tissue integration of titanium dental implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 544-557.	2.0	242
195	Osteoprotegerin (OPG) Production by Cells in the Osteoblast Lineage is Regulated by Pulsed Electromagnetic Fields in Cultures Grown on Calcium Phosphate Substrates. Annals of Biomedical Engineering, 2009, 37, 437-444.	2.7	35
196	Formation of Tethers Linking the Epiphysis and Metaphysis Is Regulated by Vitamin D Receptor-Mediated Signaling. Calcified Tissue International, 2009, 85, 134-145.	1.7	21
197	Mechanisms regulating increased production of osteoprotegerin by osteoblasts cultured on microstructured titanium surfaces. Biomaterials, 2009, 30, 3390-3396.	9.5	131
198	Thrombin peptide TP508 prevents nitric oxide mediated apoptosis in chondrocytes in the endochondral developmental pathway. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 12-22.	2.5	7

#	Article	IF	Citations
199	Effect of Micrometer-Scale Roughness of the Surface of Ti6Al4V Pedicle Screws in Vitro and in Vivo. Journal of Bone and Joint Surgery - Series A, 2008, 90, 2485-2498.	2.5	148
200	Integrin α2β1 plays a critical role in osteoblast response to micron-scale surface structure and surface energy of titanium substrates. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15767-15772.	5.2	215
201	Platelet-Rich Plasma Inhibits Demineralized Bone Matrix-Induced Bone Formation in Nude Mice. Journal of Bone and Joint Surgery - Series A, 2007, 89, 139-147.	2.5	80
202	Osteoinductivity of demineralized bone matrix in immunocompromised mice and rats is decreased by ovariectomy and restored by estrogen replacement. Bone, 2007, 40, 111-121.	2.3	35
203	1α,25(OH)2D3 is an autocrine regulator of extracellular matrix turnover and growth factor release via ERp60 activated matrix vesicle metalloproteinases. Journal of Steroid Biochemistry and Molecular Biology, 2007, 103, 467-472.	1.8	45
204	Beta-1 integrins mediate substrate dependent effects of 1α,25(OH)2D3 on osteoblasts. Journal of Steroid Biochemistry and Molecular Biology, 2007, 103, 606-609.	1.8	15
205	Integrin α5 controls osteoblastic proliferation and differentiation responses to titanium substrates presenting different roughness characteristics in a roughness independent manner. Journal of Biomedical Materials Research - Part A, 2007, 80A, 700-710.	2.8	138
206	Osteoblast response to fluid induced shear depends on substrate microarchitecture and varies with time. Journal of Biomedical Materials Research - Part A, 2007, 83A, 20-32.	2.8	15
207	Requirement for both micron- and submicron scale structure for synergistic responses of osteoblasts to substrate surface energy and topography. Biomaterials, 2007, 28, 2821-2829.	9.5	447
208	Caveolin-1 Knockout Mice Have Increased Bone Size and Stiffness. Journal of Bone and Mineral Research, 2007, 22, 1408-1418.	3.2	76
209	Platelet-Rich Plasma Inhibits Demineralized Bone Matrix-Induced Bone Formation in Nude Mice. Journal of Bone and Joint Surgery - Series A, 2007, 89, 139-147.	2.5	7
210	Does Sex Matter in Musculoskeletal Health? A Workshop Report. Orthopedic Clinics of North America, 2006, 37, 523-529.	1.0	9
211	Osteoinductive Ability of Human Allograft Formulations. Journal of Periodontology, 2006, 77, 1555-1563.	2.4	35
212	Use of Growth Factors to Modify Osteoinductivity of Demineralized Bone Allografts: Lessons for Tissue Engineering of Bone. Dental Clinics of North America, 2006, 50, 217-228.	0.6	37
213	Plasma membrane requirements for 1α,25(OH)2D3 dependent PKC signaling in chondrocytes and osteoblasts. Steroids, 2006, 71, 286-290.	1.8	49
214	Osteoblast-like cells are sensitive to submicron-scale surface structure. Clinical Oral Implants Research, 2006, 17, 258-264.	3.7	234
215	Integrin β1 silencing in osteoblasts alters substrate-dependent responses to 1,25-dihydroxy vitamin D3. Biomaterials, 2006, 27, 3716-3725.	9.5	70
216	Regulation of Growth Plate Chondrocytes by 1,25-Dihydroxyvitamin D3 Requires Caveolae and Caveolin-1. Journal of Bone and Mineral Research, 2006, 21, 1637-1647.	3.2	40

#	Article	IF	Citations
217	Sex-specific regulation of growth plate chondrocytes by estrogen is via multiple MAP kinase signaling pathways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 381-392.	2.5	35
218	Response of Musculoskeletal Cells to Biomaterials. Journal of the American Academy of Orthopaedic Surgeons, The, 2006, 14, S157-S162.	1.5	10
219	Human articular chondrocytes exhibit sexual dimorphism in their responses to 17β-estradiol. Osteoarthritis and Cartilage, 2005, 13, 330-337.	3.0	72
220	Sexual dimorphism of growth plate prehypertrophic and hypertrophic chondrocytes in response to testosterone requires metabolism to dihydrotestosterone (DHT) by steroid 5-alpha reductase type 1. Journal of Cellular Biochemistry, 2005, 95, 108-119.	1.8	26
221	Thrombin peptide (TP508) treatment of rat growth plate cartilage cells promotes proliferation and retention of the chondrocytic phenotype while blocking terminal endochondral differentiation. Journal of Cellular Physiology, 2005, 202, 336-343.	2.5	18
222	Phospholipase A 2 activating protein (PLAA) is required for 1α,25(OH)2 D 3 signaling in growth plate chondrocytes. Journal of Cellular Physiology, 2005, 203, 54-70.	2.5	32
223	Does Sex Matter in Musculoskeletal Health?The Influence of Sex and Gender on Musculoskeletal Health*. Journal of Bone and Joint Surgery - Series A, 2005, 87, 1631.	2.5	66
224	Platelet-Derived Growth Factor Inhibits Demineralized Bone Matrix-Induced Intramuscular Cartilage and Bone Formation. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2052-2064.	2.5	88
225	A 2-Year Follow-Up of Root Coverage Using Subpedicle Acellular Dermal Matrix Allografts and Subepithelial Connective Tissue Autografts. Journal of Periodontology, 2005, 76, 1323-1328.	2.4	65
226	Growth-plate chondrocytes respond to 17β-estradiol with sex-specific increases in IP3 and intracellular calcium ion signalling via a capacitative entry mechanism. Steroids, 2005, 70, 775-786.	1.8	20
227	PLATELET-DERIVED GROWTH FACTOR INHIBITS DEMINERALIZED BONE MATRIX-INDUCED INTRAMUSCULAR CARTILAGE AND BONE FORMATION. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2052-2064.	2.5	13
228	DOES SEX MATTER IN MUSCULOSKELETAL HEALTH?. Journal of Bone and Joint Surgery - Series A, 2005, 87, 1631-1647.	2.5	8
229	Ribozyme knockdown functionally links a 1,25(OH)2D3 membrane binding protein (1,25D3-MARRS) and phosphate uptake in intestinal cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7392-7397.	5.2	225
230	The Use of Enamel Matrix Derivative in the Treatment of Periodontal Defects: a Literature Review and Meta-analysis. Critical Reviews in Oral Biology and Medicine, 2004, 15, 382-402.	6.2	158
231	Osteoblast response to bioactive glasses in vitro correlates with inorganic phosphate content. Biomaterials, 2004, 25, 2547-2555.	9.5	56
232	Lysophospholipid regulates release and activation of latent TGF-β1 from chondrocyte extracellular matrix. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2004, 1684, 18-28.	1.5	28
233	Rapid vitamin D-dependent PKC signaling shares features with estrogen-dependent PKC signaling in cartilage and bone. Steroids, 2004, 69, 591-597.	1.8	45
234	Mechanisms regulating differential activation of membrane-mediated signaling by 1α,25(OH)2D3 and 24R,25(OH)2D3. Journal of Steroid Biochemistry and Molecular Biology, 2004, 89-90, 309-315.	1.8	19

#	Article	IF	Citations
235	Role of oral bacterial flora in calcific aortic stenosis: an animal model. Annals of Thoracic Surgery, 2004, 77, 537-543.	2.6	39
236	Stimulation of Growth Factor Synthesis by Electric and Electromagnetic Fields. Clinical Orthopaedics and Related Research, 2004, 419, 30-37.	1.4	245
237	Membrane actions of vitamin D metabolites 1?,25(OH)2D3 and 24R,25(OH)2D3 are retained in growth plate cartilage cells from vitamin D receptor knockout mice. Journal of Cellular Biochemistry, 2003, 90, 1207-1223.	1.8	77
238	Use of Orthodontic Treatment as an Aid to Third Molar Extraction: A Method for Prevention of Mandibular Nerve Injury and Improved Periodontal Status. Journal of Periodontology, 2003, 74, 887-892.	2.4	29
239	1α,25(OH)2D3 causes a rapid increase in phosphatidylinositol-specific PLC-β activity via phospholipase A2-dependent production of lysophospholipid. Steroids, 2003, 68, 423-437.	1.8	45
240	Steroid Hormone Action in Musculoskeletal Cells Involves Membrane Receptor and Nuclear Receptor Mechanisms. Connective Tissue Research, 2003, 44, 130-135.	1.2	23
241	Estrogen-Dependent Rapid Activation of Protein Kinase C in Estrogen Receptor-Positive MCF-7 Breast Cancer Cells and Estrogen Receptor-Negative HCC38 Cells Is Membrane-Mediated and Inhibited by Tamoxifen. Endocrinology, 2003, 144, 1812-1824.	1.8	71
242	Steroid Hormone Action in Musculoskeletal Cells Involves Membrane Receptor and Nuclear Receptor Mechanisms. Connective Tissue Research, 2003, 44, 130-135.	1.2	0
243	1α,25-Dihydroxyvitamin D3 and 24R,25-Dihydroxyvitamin D3 Modulate Growth Plate Chondrocyte Physiology via Protein Kinase C-Dependent Phosphorylation of Extracellular Signal-Regulated Kinase 1/2 Mitogen-Activated Protein Kinase. Endocrinology, 2002, 143, 2775-2786.	1.8	67
244	1α,25(OH)2D3 Regulates Chondrocyte Matrix Vesicle Protein Kinase C (PKC) Directly via G-protein-dependent Mechanisms and Indirectly via Incorporation of PKC during Matrix Vesicle Biogenesis. Journal of Biological Chemistry, 2002, 277, 11828-11837.	1.3	40
245	Differential Regulation of Growth Plate Chondrocytes by 1α,25-(OH)2D3and 24R,25-(OH)2D3 Involves Cell-maturation-specific Membrane-receptor-activated Phospholipid Metabolism. Critical Reviews in Oral Biology and Medicine, 2002, 13, 143-154.	6.2	73
246	Coverage of Previously Carious Roots Is as Predictable a Procedure as Coverage of Intact Roots. Journal of Periodontology, 2002, 73, 1419-1426.	2.4	39
247	Evidence for distinct membrane receptors for 1α,25-(OH)2D3 and 24R,25-(OH)2D3 in osteoblasts. Steroids, 2002, 67, 235-246.	1.8	68
248	Membrane mediated signaling mechanisms are used differentially by metabolites of vitamin D3 in musculoskeletal cells. Steroids, 2002, 67, 421-427.	1.8	21
249	Rat costochondral chondrocytes produce 17β-estradiol and regulate its production by 1α,25(OH)2D3. Bone, 2002, 30, 57-63.	2.3	31
250	Tamoxifen elicits its anti-estrogen effects in growth plate chondrocytes by inhibiting protein kinase C. Journal of Steroid Biochemistry and Molecular Biology, 2002, 80, 401-410.	1.8	23
251	Cartilage regeneration. Oral and Maxillofacial Surgery Clinics of North America, 2002, 14, 105-116.	1.0	4
252	Transforming growth factor-β1 regulation of growth zone chondrocytes is mediated by multiple interacting pathways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1590, 1-15.	2.5	32

#	Article	IF	Citations
253	Osteoblast-Mediated Mineral Deposition in Culture is Dependent on Surface Microtopography. Calcified Tissue International, 2002, 71, 519-529.	1.7	254
254	The First Stage of Transforming Growth Factor β1 Activation is Release of the Large Latent Complex from the Extracellular Matrix of Growth Plate Chondrocytes by Matrix Vesicle Stromelysin-1 (MMP-3). Calcified Tissue International, 2002, 70, 54-65.	1.7	130
255	Ceramic and PMMA particles differentially affect osteoblast phenotype. Biomaterials, 2002, 23, 1855-1863.	9.5	122
256	1 ,25-Dihydroxyvitamin D3 and 24R,25-Dihydroxyvitamin D3 Modulate Growth Plate Chondrocyte Physiology via Protein Kinase C-Dependent Phosphorylation of Extracellular Signal-Regulated Kinase 1/2 Mitogen-Activated Protein Kinase. Endocrinology, 2002, 143, 2775-2786.	1.8	28
257	NITRIC OXIDE AND PROSTAGLANDIN E2 PRODUCTION IN RESPONSE TO ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE PARTICLES DEPENDS ON OSTEOBLAST MATURATION STATE. Journal of Bone and Joint Surgery - Series A, 2002, 84, 411-419.	2.5	38
258	Mechanisms Involved in Osteoblast Response to Implant Surface Morphology. Annual Review of Materials Research, 2001, 31, 357-371.	8.3	173
259	Regulation of phospholipase D (PLD) in growth plate chondrocytes by 24R,25-(OH)2D3 is dependent on cell maturation state (resting zone cells) and is specific to the PLD2 isoform. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1499, 209-221.	2.5	33
260	Metalloproteinase activity in growth plate chondrocyte cultures is regulated by 1,25-(OH)2D3 and 24,25-(OH)2D3 and mediated through protein kinase C. Matrix Biology, 2001, 20, 87-97.	3.4	27
261	Characterization of PGE2 receptors (EP) and their role as mediators of 1α,25-(OH)2D3 effects on growth zone chondrocytes. Journal of Steroid Biochemistry and Molecular Biology, 2001, 78, 261-274.	1.8	49
262	24,25-(OH)2D3 regulates cartilage and bone via autocrine and endocrine mechanisms. Steroids, 2001, 66, 363-374.	1.8	72
263	The effect of 24R,25-(OH)2D3 on protein kinase C activity in chondrocytes is mediated by phospholipase D whereas the effect of 1α,25-(OH)2D3 is mediated by phospholipase C. Steroids, 2001, 66, 683-694.	1.8	49
264	Pulsed Electromagnetic Fields Increase Growth Factor Release by Nonunion Cells. Clinical Orthopaedics and Related Research, 2001, 384, 265-279.	1.4	127
265	1a,25-(OH)2D3 Regulates 25-Hydroxyvitamin D3 24R-Hydroxylase Activity in Growth Zone Costochondral Growth Plate Chondrocytes via Protein Kinase C. Calcified Tissue International, 2001, 69, 365-372.	1.7	29
266	Tissue response and osteoinduction of human bone grafts in vivo. Archives of Orthopaedic and Trauma Surgery, 2001, 121, 583-590.	1.5	94
267	Local factor production by MG63 osteoblast-like cells in response to surface roughness and 1,25-(OH)2D3 is mediated via protein kinase C- and protein kinase A-dependent pathways. Biomaterials, 2001, 22, 731-741.	9.5	100
268	Inhibition of cyclooxygenase by indomethacin modulates osteoblast response to titanium surface roughness in a time-dependent manner. Clinical Oral Implants Research, 2001, 12, 52-61.	3.7	35
269	17?-estradiol-BSA conjugates and 17?-estradiol regulate growth plate chondrocytes by common membrane associated mechanisms involving PKC dependent and independent signal transduction. Journal of Cellular Biochemistry, 2001, 81, 413-429.	1.8	79
270	Effects of 1?,25-(OH)2D3 on rat growth zone chondrocytes are mediated via cyclooxygenase-1 and phospholipase A2. Journal of Cellular Biochemistry, 2001, 81, 32-45.	1.8	26

#	Article	IF	Citations
271	Activation of Latent Transforming Growth Factor β1 by Stromelysin 1 in Extracts of Growth Plate Chondrocyte-Derived Matrix Vesicles. Journal of Bone and Mineral Research, 2001, 16, 1281-1290.	3.2	90
272	Effect of 1α,25-Dihydroxyvitamin D 3 and 24R,25-Dihydroxyvitamin D 3 on Metalloproteinase Activity and Cell Maturation in Growth Plate Cartilage In Vivo. Endocrine, 2001, 14, 311-324.	1.4	43
273	Stathmin Levels in Growth Plate Chondrocytes Are Modulated by Vitamin D 3 Metabolites and Transforming Growth Factor-β1 and Are Associated with Proliferation. Endocrine, 2001, 15, 093-102.	1.4	7
274	Root Coverage and Pocket Reduction as Combined Surgical Procedures. Journal of Periodontology, 2001, 72, 1572-1579.	2.4	21
275	Characterization of prostaglandin E2 receptors and their role in 24,25-(OH)2D3-mediated effects on resting zone chondrocytes. Journal of Cellular Physiology, 2000, 182, 196-208.	2.5	41
276	24R,25-(OH)2D3 mediates its membrane receptor-dependent effects on protein kinase C and alkaline phosphatase via phospholipase A2 and cyclooxygenase-1 but not cyclooxygenase-2 in growth plate chondrocytes. Journal of Cellular Physiology, 2000, 182, 390-401.	2.5	33
277	Expression and production of stathmin in growth plate chondrocytes is cell-maturation dependent. Journal of Cellular Biochemistry, 2000, 79, 150-163.	1.8	9
278	Pretreatment with platelet derived growth factor-BB modulates the ability of costochondral resting zone chondrocytes incorporated into PLA/PGA scaffolds to form new cartilage in vivo. Biomaterials, 2000, 21, 49-61.	9.5	88
279	Phagocytosis of wear debris by osteoblasts affects differentiation and local factor production in a manner dependent on particle composition. Biomaterials, 2000, 21, 551-561.	9.5	175
280	Re-use of implant coverscrews changes their surface properties but not clinical outcome. Clinical Oral Implants Research, 2000, 11, 183-194.	3.7	15
281	Parathyroid Hormone and Transforming Growth Factor-β1 Coregulate Chondrocyte Differentiation In Vitro. Endocrine, 2000, 13, 305-313.	1.4	6
282	Der Differenzierungsgrad von Chondrozyten und ihre Vorbehandlung mit „platelet-derived-growth-factor“. Der Orthopade, 2000, 29, 120-128.	0.5	2
283	Transforming growth factor-β1 regulation of resting zone chondrocytes is mediated by two separate but interacting pathways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1496, 311-324.	2.5	19
284	The membrane effects of 17β-estradiol on chondrocyte phenotypic expression are mediated by activation of protein kinase C through phospholipase C and G-proteins. Journal of Steroid Biochemistry and Molecular Biology, 2000, 73, 211-224.	1.8	53
285	Osteoblast Proliferation and Differentiation on Dentin Slices Are Modulated by Pretreatment of the Surface With Tetracycline or Osteoclasts. Journal of Periodontology, 2000, 71, 586-597.	2.4	57
286	The Relationship Between Peripheral Levels of Leukocytes and Neutrophils and Periodontal Disease Status in a Patient With Congenital Neutropenia. Journal of Periodontology, 2000, 71, 1499-1505.	2.4	24
287	Porcine Fetal Enamel Matrix Derivative Enhances Bone Formation Induced by Demineralized Freeze Dried Bone Allograft In Vivo. Journal of Periodontology, 2000, 71, 1278-1286.	2.4	167
288	Porcine Fetal Enamel Matrix Derivative Stimulates Proliferation But Not Differentiation of Pre-Osteoblastic 2T9 Cells, Inhibits Proliferation and Stimulates Differentiation of Osteoblast-Like MG63 Cells, and Increases Proliferation and Differentiation of Normal Human Osteoblast NHOst Cells. Journal of Periodontology, 2000, 71, 1287-1296.	2.4	186

#	Article	IF	Citations
289	Ability of Deproteinized Cancellous Bovine Bone to Induce New Bone Formation. Journal of Periodontology, 2000, 71, 1258-1269.	2.4	158
290	Bone And Cartilage Tissue Engineering. Clinics in Plastic Surgery, 1999, 26, 629-645.	1.2	103
291	Potential Mechanisms for the Plasmin-Mediated Release and Activation of Latent Transforming Growth Factor-β1 from the Extracellular Matrix of Growth Plate Chondrocytes1. Endocrinology, 1999, 140, 5806-5816.	1.8	67
292	Arachidonic Acid Directly Mediates the Rapid Effects of 24,25-Dihydroxyvitamin D3Via Protein Kinase C and Indirectly through Prostaglandin Production in Resting Zone Chondrocytes1. Endocrinology, 1999, 140, 2991-3002.	1.8	27
293	Surface roughness mediates its effects on osteoblasts via protein kinase A and phospholipase A2. Biomaterials, 1999, 20, 2305-2310.	9.5	137
294	Altered Expression of Bone Sialoproteins in Vitamin D-Deficient rBSP2.7Luc Transgenic Mice. Journal of Bone and Mineral Research, 1999, 14, 221-229.	3.2	33
295	Transforming Growth Factor-β1 Modulates Chondrocyte Responsiveness to 17β-Estradiol. Endocrine, 1999, 11, 241-250.	1.4	16
296	Vitamin D3 metabolites regulate LTBP1 and latent TGF-?1 expression and latent TGF-?1 incorporation in the extracellular matrix of chondrocytes. Journal of Cellular Biochemistry, 1999, 72, 151-165.	1.8	46
297	Prostaglandins mediate the effects of 1,25-(OH)2D3 and 24,25-(OH)2D3 on growth plate chondrocytes in a metabolite-specific and cell maturation-dependent manner. Bone, 1999, 24, 475-484.	2.3	30
298	1,25-(OH)2D3 modulates growth plate chondrocytes via membrane receptor-mediated protein kinase C by a mechanism that involves changes in phospholipid metabolism and the action of arachidonic acid and PGE2. Steroids, 1999, 64, 129-136.	1.8	87
299	Evaluation of 2 Novel Approaches for Assessing the Ability of Demineralized Freeze-Dried Bone Allograft to Induce New Bone Formation. Journal of Periodontology, 1999, 70, 353-363.	2.4	37
300	Implant Surface Characteristics Modulate Differentiation Behavior of Cells in the Osteoblastic Lineage. Advances in Dental Research, 1999, 13, 38-48.	2.0	285
301	Potential Mechanisms for the Plasmin-Mediated Release and Activation of Latent Transforming Growth Factor- 1 from the Extracellular Matrix of Growth Plate Chondrocytes. Endocrinology, 1999, 140, 5806-5816.	1.8	13
302	Arachidonic Acid Directly Mediates the Rapid Effects of 24,25-Dihydroxyvitamin D3 Via Protein Kinase C and Indirectly through Prostaglandin Production in Resting Zone Chondrocytes. Endocrinology, 1999, 140, 2991-3002.	1.8	10
303	The Effect of Ultra-High Molecular Weight Polyethylene Wear Debris on MG63 Osteosarcoma Cells in Vitro*. Journal of Bone and Joint Surgery - Series A, 1999, 81, 452-61.	2.5	63
304	Bone Morphogenetic Protein But Not Transforming Growth Factor-β Enchances Bone Formation in Canine Diaphyseal Nonunions Implanted with a Biodegradable Composite Polymer*†. Journal of Bone and Joint Surgery - Series A, 1999, 81, 1717-29.	2.5	102
305	Osteochondral Progenitor Cells in Acute and Chronic Canine Nonunions. Journal of Bone and Joint Surgery - Series A, 1999, 81, 70.	2.5	0
306	Effect of Surface Roughness and Composition on Costochondral Chondrocytes is Dependent on Cell Maturation State. Journal of Bone and Joint Surgery - Series A, 1999, 81, 51.	2.5	0

#	Article	IF	Citations
307	Treatment of Resting Zone Chondrocytes with Bone Morphogenetic Protein-2 Induces Maturation into a Phenotype Characteristic of Growth Zone Chondrocytes by Downregulating Responsiveness to 24,25(OH)2 D 3 and Upregulating Responsiveness to 1,25-(OH)2 D 3. Endocrine, 1998, 9, 273-280.	1.4	13
308	17β-Estradiol regulation of protein kinase C activity in chondrocytes is sex-dependent and involves nongenomic mechanisms. , 1998, 176, 435-444.		57
309	Arachidonic acid is an autocoid mediator of the differential action of 1,25-(OH)2D3 and 24,25-(OH)2D3 on growth plate chondrocytes. Journal of Cellular Physiology, 1998, 176, 516-524.	2.5	37
310	Purification, Amino Acid Sequence, and cDNA Sequence of a Novel Calcium-Precipitating Proteolipid Involved in Calcification of Corynebacterium matruchotii. Calcified Tissue International, 1998, 62, 350-358.	1.7	48
311	Response of MG63 osteoblast-like cells to titanium and titanium alloy is dependent on surface roughness and composition. Biomaterials, 1998, 19, 2219-2232.	9.5	660
312	Treatment of resting zone chondrocytes with transforming growth factor-β1 induces differentiation into a phenotype characteristic of growth zone chondrocytes by downregulating responsiveness to 24,25-(OH)2D3 and upregulating responsiveness to 1,25-(OH)2D3. Bone, 1998, 23, 465-470.	2.3	19
313	Addition of Human Recombinant Bone Morphogenetic Protein-2 to Inactive Commercial Human Demineralized Freeze-Dried Bone Allograft Makes An Effective Composite Bone Inductive Implant Material. Journal of Periodontology, 1998, 69, 1337-1345.	2.4	92
314	The Synergistic Effects of Vitamin D Metabolites and Transforming Growth Factor-β on Costochondral Chondrocytes Are Mediated by Increases in Protein Kinase C Activity Involving Two Separate Pathways*. Endocrinology, 1998, 139, 534-545.	1.8	15
315	The Effect of Prostaglandin E2on Costochondral Chondrocyte Differentiation Is Mediated by Cyclic Adenosine 3',5'-Monophosphate and Protein Kinase C1. Endocrinology, 1998, 139, 1825-1834.	1.8	62
316	Ability of Commercial Demineralized Freeze-Dried Bone Allograft to Induce New Bone Formation Is Dependent on Donor Age But Not Gender. Journal of Periodontology, 1998, 69, 470-478.	2.4	237
317	The Synergistic Effects of Vitamin D Metabolites and Transforming Growth Factor- on Costochondral Chondrocytes Are Mediated by Increases in Protein Kinase C Activity Involving Two Separate Pathways. Endocrinology, 1998, 139, 534-545.	1.8	9
318	The Effect of Prostaglandin E2 on Costochondral Chondrocyte Differentiation Is Mediated by Cyclic Adenosine 3',5'-Monophosphate and Protein Kinase C. Endocrinology, 1998, 139, 1825-1834.	1.8	15
319	Bacterial Lipopolysaccharide Induces Early and Late Activation of Protein Kinase C in Inflammatory Macrophages by Selective Activation of PKC-ϵ. Biochemical and Biophysical Research Communications, 1997, 240, 629-634.	1.5	53
320	Rapid and long-term effects of PTH(1-34) on growth plate chondrocytes are mediated through two different pathways in a cell-maturation-dependent manner. Bone, 1997, 21, 249-259.	2.3	28
321	Mechanisms of alveolar bone destruction in periodontitis. Periodontology 2000, 1997, 14, 158-172.	10.1	124
322	Platelet derived growth factor stimulates chondrocyte proliferation but prevents endochondral maturation. Endocrine, 1997, 6, 257-264.	1.8	81
323	Matrix Vesicles Promote Mineralization in a Gelatin Gel. Calcified Tissue International, 1997, 60, 309-315.	1.7	58
324	A-ring analogues of 1,25-(OH)2D3 with low affinity for the vitamin D receptor modulate chondrocytes via membrane effects that are dependent on cell maturation. , 1997, 171, 357-367.		22

#	Article	IF	Citations
325	Effect of 17β-estradiol on chondrocyte membrane fluidity and phospholipid metabolism is membrane-specific, sex-specific, and cell maturation-dependent. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1282, 1-10.	1.5	46
326	Vitamin D Metabolites Regulate Matrix Vesicle Metalloproteinase Content in a Cell Maturation-Dependent Manner. Calcified Tissue International, 1996, 59, 109-116.	1.7	58
327	Preferential accumulation in vivo of 24R,25-dihydroxyvitamin D3 in growth plate cartilage of rats. Endocrine, 1996, 5, 147-155.	1.8	26
328	Nongenomic regulation of protein kinase C isoforms by the vitamin D metabolites 1α,25-(OH)2D3 and 24R,25-(OH)2D3. Journal of Cellular Physiology, 1996, 167, 380-393.	2.5	96
329	Role of material surfaces in regulating bone and cartilage cell response. Biomaterials, 1996, 17, 137-146.	9.5	1,249
330	The Changing Face of Dental Research: Blurring the Boundaries Between Industry and Academia. Journal of Dental Research, 1996, 75, 1426-1427.	3.8	1
331	Ability of Commercial Demineralized Freeze-Dried Bone Allograft to Induce New Bone Formation. Journal of Periodontology, 1996, 67, 918-926.	2.4	309
332	The Synergistic Effect of TGFβ and 24, 25-(OH)2D3on Resting Zone Chondrocytes is Metabolite-Specific and Mediated by PKC. Connective Tissue Research, 1996, 35, 101-106.	1.2	14
333	Cell Biology of Calcified Tissues: Experimental Models of Differentiation and Mechanisms by Which Local and Systemic Factors Exert their Effects. Connective Tissue Research, 1996, 35, 63-70.	1.2	9
334	Vitamin D Regulation of Metal loproteinase Activity in Matrix Vesicles. Connective Tissue Research, 1996, 35, 331-336.	1.2	68
335	Evidence that interleukin-1, but not interleukin-6, affects costochondral chondrocyte proliferation, differentiation, and matrix synthesis through an autocrine pathway. Journal of Bone and Mineral Research, 1996, 11, 1119-1129.	3.2	14
336	In Vitro Degradation and Release Characteristics of Biodegradable Implants Containing Trypsin Inhibitor. Clinical Orthopaedics and Related Research, 1995, &NA;, 272???281.	1.4	7
337	Uptake and biodistribution of 99mtechnetium methylene-[32P]diphosphonate during endosteal healing around titanium, stainless steel and hydroxyapatite implants in rat tibial bone. Biomaterials, 1995, 16, 1373-1380.	9.5	16
338	Protein release kinetics of a biodegradable implant for fracture non-unions. Biomaterials, 1995, 16, 1255-1260.	9.5	91
339	Dexamethasone promotes von kossa-positive nodule formation and increased alkaline phosphatase activity in costochondral chondrocyte cultures. Endocrine, 1995, 3, 351-360.	1.4	18
340	Treatment of resting zone chondrocytes with 24,25-dihydroxyvitamin D3 [24,25-(OH)2D3] induces differentiation into a 1,25-(OH)2D3-responsive phenotype characteristic of growth zone chondrocytes.. Endocrinology, 1995, 136, 402-411.	1.8	78
341	Osteosarcoma hybrids can preferentially target alkaline phosphatase activity to matrix vesicles: Evidence for independent membrane biogenesis. Journal of Bone and Mineral Research, 1995, 10, 1614-1624.	3.2	22
342	Treatment of resting zone chondrocytes with 24,25-dihydroxyvitamin D3 [24,25-(OH)2D3] induces differentiation into a 1,25-(OH)2D3-responsive phenotype characteristic of growth zone chondrocytes. Endocrinology, 1995, 136, 402-411.	1.8	21

#	Article	IF	Citations
343	Evidence for Receptors Specific for 17β-Estradiol and Testosterone in Chondrocyte Cultures. Connective Tissue Research, 1994, 30, 277-294.	1.2	73
344	Matrix vesicles produced by osteoblast-like cells in culture become significantly enriched in proteoglycan-degrading metalloproteinases after addition of ?-Glycerophosphate and ascorbic acid. Calcified Tissue International, 1994, 54, 399-408.	1.7	104
345	Stabilization of pericardial tissue by dye-mediated photooxidation. Journal of Biomedical Materials Research Part B, 1994, 28, 611-618.	3.4	61
346	Nongenomic regulation of extracellular matrix events by vitamin D metabolites. Journal of Cellular Biochemistry, 1994, 56, 331-339.	1.8	55
347	Gender dependent effects of testosterone and 17β-estradiol on bone growth and modelling in young mice. Bone and Mineral, 1994, 24, 43-58.	1.5	72
348	Gender-related effects of vitamin D metabolites on cartilage and bone. Bone and Mineral, 1994, 27, 235-247.	1.5	7
349	Gender-specific, maturation-dependent effects of testosterone on chondrocytes in culture.. Endocrinology, 1994, 134, 1640-1647.	1.8	54
350	Regulation of protein kinase C by transforming growth factor β1 in rat costochondral chondrocyte cultures. Journal of Bone and Mineral Research, 1994, 9, 1477-1487.	3.2	25
351	Latent transforming growth factor-beta is produced by chondrocytes and activated by extracellular matrix vesicles upon exposure to 1,25-(OH)2D3.. Journal of Biological Chemistry, 1994, 269, 28374-28381.	1.3	101
352	Gender-specific, maturation-dependent effects of testosterone on chondrocytes in culture. Endocrinology, 1994, 134, 1640-1647.	1.8	18
353	Nongenomic regulation of chondrocyte membrane fluidity by 1,25-(OH)2D3 and 24,25-(OH)2D3 is dependent on cell maturation. Bone, 1993, 14, 609-617.	2.3	75
354	Direct effects of transforming growth factor-beta on chondrocytes are modulated by vitamin D metabolites in a cell maturation-specific manner.. Endocrinology, 1993, 132, 1544-1552.	1.8	72
355	Journal of Bone and Mineral Research. Journal of Bone and Mineral Research, 1993, 8, S529-S534.	3.2	17
356	Journal of Bone and Mineral Research. Journal of Bone and Mineral Research, 1993, 8, S557-S562.	3.2	1
357	Direct effects of transforming growth factor-beta on chondrocytes are modulated by vitamin D metabolites in a cell maturation-specific manner. Endocrinology, 1993, 132, 1544-1552.	1.8	23
358	Initial Effects of Partially Purified Bone Morphogenetic Protein on the Expression of Glycosaminoglycan, Collagen, and Alkaline Phosphatase in Nonunion Cell Cultures. Clinical Orthopaedics and Related Research, 1992, 278, 286-304.	1.4	32
359	Epithelial Cell Lines That Induce Bone Formation In Vivo Produce Alkaline Phosphatase-Enriched Matrix Vesicles in Culture. Clinical Orthopaedics and Related Research, 1992, &NA;, 266???276.	1.4	21
360	Regulation of matrix vesicle phospholipid metabolism is cell maturation-dependent. Bone and Mineral, 1992, 17, 192-196.	1.5	13

#	Article	IF	Citations
361	Matrix vesicles contain metalloproteinases that degrade proteoglycans. Bone and Mineral, 1992, 17, 172-176.	1.5	30
362	Differential regulation of prostaglandin E2 synthesis and phospholipase A2 activity by 1,25-(OH)2D3 in three osteoblast-like cell lines (MC-3T3-E1, ROS 17/2.8, and MG-63). Bone, 1992, 13, 51-58.	2.3	76
363	Regulation of prostaglandin E2 production by vitamin D metabolites in growth zone and resting zone chondrocyte cultures is dependent on cell maturation. Bone, 1992, 13, 395-401.	2.3	67
364	Stimulation of matrix vesicle enzyme activity in osteoblast-like cells by 1,25(OH)2D3 and transforming growth factor β (TGFβ). Bone and Mineral, 1992, 17, 139-144.	1.5	38
365	Cell maturation-specific autocrine/paracrine regulation of matrix vesicles. Bone and Mineral, 1992, 17, 263-268.	1.5	13
366	Studies of matrix vesicle-induced mineralization in a gelatin gel. Bone and Mineral, 1992, 17, 257-262.	1.5	28
367	The effect of bone injury on extracellular matrix vesicle proliferation and mineral formation. Bone and Mineral, 1992, 17, 163-167.	1.5	18
368	1,25-(OH)2D3 and 24,25-(OH)2D3 regulation of arachidonic acid turnover in chondrocyte cultures is cell maturation-specific and may involve direct effects on phospholipase A2. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1136, 45-51.	2.5	57
369	Modulation of matrix vesicle enzyme activity and phosphatidylserine content by ceramic implant materials during endosteal bone healing. Calcified Tissue International, 1992, 51, 429-437.	1.7	25
370	Matrix vesicles are enriched in metalloproteinases that degrade proteoglycans. Calcified Tissue International, 1992, 50, 342-349.	1.7	102
371	Effect of short-term hypomagnesemia on the chemical and mechanical properties of rat bone. Journal of Orthopaedic Research, 1992, 10, 774-783.	1.5	103
372	α2-HS-glycoprotein: Expression in chondrocytes and augmentation of alkaline phosphatase and phospholipase A2 activity. Bone, 1991, 12, 7-15.	2.3	45
373	Effect of glass ceramic and titanium implants on primary calcification during rat tibial bone healing. Calcified Tissue International, 1991, 49, 359-364.	1.7	30
374	In Vitro Chemotactic Response of Osteoblast-Like Osteosarcoma Cells to a Partially Purified Protein Extract of Demineralized Bone Matrix. Journal of Periodontology, 1991, 62, 15-20.	2.4	9
375	Inhibition of 1,25-(OH)2D3- and 24,25-(OH)2D3-dependent stimulation of alkaline phosphatase activity by A23187 suggests a role for calcium in the mechanism of vitamin D regulation of chondrocyte cultures. Journal of Bone and Mineral Research, 1991, 6, 709-718.	3.2	30
376	Effect of 1,25(OH)2D3 and 24,25(OH)2D3 on calcium ion fluxes in costochondral chondrocyte cultures. Calcified Tissue International, 1990, 47, 230-236.	1.7	60
377	Matrix Vesicles as a Marker of Endochondral Ossification. Connective Tissue Research, 1990, 24, 67-75.	1.2	32
378	Phenotypic Changes of Rabbit Mandibular Condylar Cartilage Cells in Culture. Journal of Dental Research, 1990, 69, 1753-1758.	3.8	24

#	Article	IF	Citations
379	Regulation of arachidonic acid turnover by 1,25-(OH)2D3 and 24,25-(OH)2D3 in growth zone and resting zone chondrocyte cultures. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1027, 278-286.	1.5	76
380	Resolution of Ion Translocating Proteolipid Subclasses Active in Bacterial Calcification. Journal of Dental Research, 1989, 68, 1094-1097.	3.8	9
381	Role of lipids in calcification of cartilage. The Anatomical Record, 1989, 224, 211-219.	0.0	74
382	The effect of local antibiotics in treating chronic osseous Staphylococcus aureus infection. Journal of Oral and Maxillofacial Surgery, 1989, 47, 940-945.	0.8	14
383	Changes in extracellular matrix vesicles during healing of rat tibial bone: A morphometric and biochemical study. Bone, 1989, 10, 53-60.	2.3	44
384	Regulation of Matrix Vesicle Metabolism by Vitamin D Metabolites. Connective Tissue Research, 1989, 22, 629-642.	1.2	23
385	Localization of 1,25-(OH)2D3-responsive alkaline phosphatase in osteoblast-like cells (ROS 17/2.8, MG 63, and MC 3T3) and growth cartilage cells in culture. Journal of Biological Chemistry, 1989, 264, 11879-11886.	1.3	139
386	Differential expression of phenotype by resting zone and growth region costochondral chondrocytes in vitro. Bone, 1988, 9, 185-194.	2.3	189
387	Comments on the Clinical Application of Fibronectin in Dentistry. Journal of Dental Research, 1988, 67, 515-517.	3.8	58
388	Ion-translocating Properties of Calcifiable Proteolipids. Journal of Dental Research, 1988, 67, 526-530.	3.8	16
389	The Effects of Vitamin D Metabolites on the Plasma and Matrix Vesicle Membranes of Growth and Resting Cartilage Cellsin Vitro*. Endocrinology, 1988, 122, 2851-2860.	1.8	143
390	Direct Effects of 1,25-Dihydroxyvitamin D3and 24,25-Dihydroxyvitamin D3 on Growth Zone and Resting Zone Chondrocyte Membrane Alkaline Phosphatase and Phospholipase-A2 Specific Activities*. Endocrinology, 1988, 123, 2878-2884.	1.8	150
391	Localization of vitamin D3-responsive alkaline phosphatase in cultured chondrocytes.. Journal of Biological Chemistry, 1988, 263, 6023-6026.	1.3	78
392	The effect of formocresol on lipids of bovine pulp. Journal of Endodontics, 1986, 12, 559-563.	2.6	4
393	In vivo hydroxyapatite formation induced by lipids. Journal of Bone and Mineral Research, 1986, 1, 409-415.	3.2	72
394	The effects of calcium hydroxide on bovine pulp tissue: variations in pH and calcium concentration. Journal of Endodontics, 1985, 11, 156-160.	2.6	54
395	Co-isolation of proteolipids and calcium-phospholipid-phosphate complexes. Calcified Tissue International, 1984, 36, 214-218.	1.7	45
396	Proteolipid-lipid relationships in normal and vitamin D-deficient chick cartilage. Calcified Tissue International, 1984, 36, 332-337.	1.7	27

#	Article	IF	Citations
397	Cell and Tissue Response to Polyethylene Terephthalate Mesh Containing Bone Allograft in Vitro and in Vivo. International Journal of Spine Surgery, 0, , 7135.	1.0	3
398	Osteoblasts generate an osteogenic microenvironment when grown on surfaces with rough microtopographies. , 0, 6, 22-27.		269
399	Role of the N-terminal peptide of amelogenin on osteoblastic differentiation of human mesenchymal stem cells. , 0, 28, 1-10.		10
400	Critical Evaluation of Biomechanical Principles and Radiographic Indicators for Fusion Assessment in a Novel Conformable Porous Mesh Implant. International Journal of Spine Surgery, 0, , 7133.	1.0	3
401	Title is missing!. , 0, .		1
402	Title is missing!. , 0, .		1
403	24R ,25(OH) 2	2.8	2
404	Novel PEEK fabrication using fused strand deposition reduces inflammation and enhances MSC differentiation promoting bone growth and implant osseointegration. Biomaterials, 0, 328, 123833.	9.5	3
405	Metal-on-metal hip implants: Revisiting degradation product chemistry and molecular mechanisms of ARMD. Biomaterials and Biosystems, 0, 22, 100134.	2.5	1