

Thomas A Einhorn

List of Publications by Year in descending order

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53
papers

9,217
citations

66343

42
h-index

175258

52
g-index

53
all docs

53
docs citations

53
times ranked

8189
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture healing as a postnatal developmental process: Molecular, spatial, and temporal aspects of its regulation. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 873-884.	2.6	1,073
2	BMP2 activity, although dispensable for bone formation, is required for the initiation of fracture healing. <i>Nature Genetics</i> , 2006, 38, 1424-1429.	21.4	708
3	Differential Temporal Expression of Members of the Transforming Growth Factor β Superfamily During Murine Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 513-520.	2.8	610
4	Molecular Mechanisms Controlling Bone Formation during Fracture Healing and Distraction Osteogenesis. <i>Journal of Dental Research</i> , 2008, 87, 107-118.	5.2	552
5	Expression of Osteoprotegerin, Receptor Activator of NF- κ B Ligand (Osteoprotegerin Ligand) and Related Proinflammatory Cytokines During Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1004-1014.	2.8	480
6	Activation of the hypoxia-inducible factor-1 pathway accelerates bone regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 686-691.	7.1	442
7	Growth Factor Regulation of Fracture Repair. <i>Journal of Bone and Mineral Research</i> , 1999, 14, 1805-1815.	2.8	416
8	Impaired Fracture Healing in the Absence of TNF- α Signaling: The Role of TNF- α in Endochondral Cartilage Resorption. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1584-1592.	2.8	379
9	Differential inhibition of fracture healing by non-selective and cyclooxygenase-2 selective non-steroidal anti-inflammatory drugs. <i>Journal of Orthopaedic Research</i> , 2003, 21, 670-675.	2.3	307
10	Micro-computed tomography assessment of fracture healing: Relationships among callus structure, composition, and mechanical function. <i>Bone</i> , 2009, 44, 335-344.	2.9	216
11	Diminished Bone Formation During Diabetic Fracture Healing is Related to the Premature Resorption of Cartilage Associated With Increased Osteoclast Activity. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 560-568.	2.8	210
12	Impaired Intramembranous Bone Formation during Bone Repair in the Absence of Tumor Necrosis Factor- α Signaling. <i>Cells Tissues Organs</i> , 2001, 169, 285-294.	2.3	206
13	Enhanced Chondrogenesis and Wnt Signaling in PTH-Treated Fractures. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1903-1912.	2.8	196
14	BMP treatment of C3H10T1/2 mesenchymal stem cells induces both chondrogenesis and osteogenesis. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 1112-1127.	2.6	194
15	Comparison of Effects of the Bisphosphonate Alendronate Versus the RANKL Inhibitor Denosumab on Murine Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 196-208.	2.8	189
16	Expression of angiogenic factors during distraction osteogenesis. <i>Bone</i> , 2003, 33, 889-898.	2.9	178
17	Bone Formation During Distraction Osteogenesis Is Dependent on Both VEGFR1 and VEGFR2 Signaling. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 596-609.	2.8	166
18	Three-dimensional Reconstruction of Fracture Callus Morphogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 1215-1228.	2.5	164

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19	Tumor necrosis factor alpha (TNF- α) coordinately regulates the expression of specific matrix metalloproteinases (MMPs) and angiogenic factors during fracture healing. <i>Bone</i> , 2005, 36, 300-310.	2.9	145
20	Application of Histomorphometric Methods to the Study of Bone Repair. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1715-1722.	2.8	140
21	TNF- α mediates diabetes-enhanced chondrocyte apoptosis during fracture healing and stimulates chondrocyte apoptosis Through FOXO1. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1604-1615.	2.8	139
22	Induction of apoptosis in chondrocytes by tumor necrosis factor-alpha. <i>Journal of Orthopaedic Research</i> , 2001, 19, 785-796.	2.3	138
23	High Levels of Tumor Necrosis Factor- α Contribute to Accelerated Loss of Cartilage in Diabetic Fracture Healing. <i>American Journal of Pathology</i> , 2009, 175, 1574-1585.	3.8	138
24	The role of angiogenesis in a murine tibial model of distraction osteogenesis. <i>Bone</i> , 2004, 34, 849-861.	2.9	135
25	Fidelity of Runx2 Activity in Breast Cancer Cells Is Required for the Generation of Metastases-Associated Osteolytic Disease. <i>Cancer Research</i> , 2004, 64, 4506-4513.	0.9	133
26	Diabetes causes the accelerated loss of cartilage during fracture repair which is reversed by insulin treatment. <i>Bone</i> , 2009, 44, 357-363.	2.9	124
27	Vascular tissues are a primary source of BMP2 expression during bone formation induced by distraction osteogenesis. <i>Bone</i> , 2012, 51, 168-180.	2.9	112
28	Mechanical stimulation alters tissue differentiation and molecular expression during bone healing. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1123-1132.	2.3	111
29	Delayed administration of adenoviral BMP-2 vector improves the formation of bone in osseous defects. <i>Gene Therapy</i> , 2007, 14, 1039-1044.	4.5	110
30	Chondrocytes Provide Morphogenic Signals That Selectively Induce Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 221-230.	2.8	107
31	Transcriptional Analysis of Fracture Healing and the Induction of Embryonic Stem Cell-Related Genes. <i>PLoS ONE</i> , 2009, 4, e5393.	2.5	96
32	BMP2 is essential for post natal osteogenesis but not for recruitment of osteogenic stem cells. <i>Bone</i> , 2009, 45, 254-266.	2.9	91
33	Autogenous regulation of a network of bone morphogenetic proteins (BMPs) mediates the osteogenic differentiation in murine marrow stromal cells. <i>Bone</i> , 2007, 40, 1389-1398.	2.9	82
34	Chemokine expression is upregulated in chondrocytes in diabetic fracture healing. <i>Bone</i> , 2013, 53, 294-300.	2.9	62
35	Healing of Segmental Bone Defects by Direct Percutaneous Gene Delivery: Effect of Vector Dose. <i>Human Gene Therapy</i> , 2007, 18, 907-915.	2.7	61
36	Expression and Role of Interleukin-6 in Distraction Osteogenesis. <i>Calcified Tissue International</i> , 2007, 80, 192-200.	3.1	61

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37	Induction of a neoarthrosis by precisely controlled motion in an experimental mid-femoral defect. <i>Journal of Orthopaedic Research</i> , 2002, 20, 579-586.	2.3	56
38	Genetic Variation in the Patterns of Skeletal Progenitor Cell Differentiation and Progression During Endochondral Bone Formation Affects the Rate of Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1204-1216.	2.8	53
39	Effects of the local mechanical environment on vertebrate tissue differentiation during repair: does repair recapitulate development?. <i>Journal of Experimental Biology</i> , 2003, 206, 2459-2471.	1.7	52
40	Effects of OP-1 and PTH in a new experimental model for the study of metaphyseal bone healing. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1193-1203.	2.3	51
41	Combined effects of recombinant human BMP-7 (rhBMP-7) and parathyroid hormone (1 α -34) in metaphyseal bone healing. <i>Bone</i> , 2008, 43, 1031-1038.	2.9	48
42	Increased VEGF Expression in the Epiphyseal Cartilage After Ischemic Necrosis of the Capital Femoral Epiphysis. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 2041-2048.	2.8	46
43	The transcriptome of fracture healing defines mechanisms of coordination of skeletal and vascular development during endochondral bone formation. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2597-2609.	2.8	37
44	Expression of smooth muscle actin in connective tissue cells participating in fracture healing in a murine model. <i>Bone</i> , 2002, 30, 738-745.	2.9	31
45	COX inhibitors and their effects on bone healing. <i>Expert Opinion on Drug Safety</i> , 2004, 3, 131-136.	2.4	29
46	Tumor necrosis factor α activation of the apoptotic cascade in murine articular chondrocytes is associated with the induction of metalloproteinases and specific pro-resorptive factors. <i>Arthritis and Rheumatism</i> , 2003, 48, 2845-2854.	6.7	28
47	A Comparison of Treatment Effects for Nonsurgical Therapies and the Minimum Clinically Important Difference in Knee Osteoarthritis. <i>JBJS Reviews</i> , 2019, 7, e5-e5.	2.0	28
48	Functional role of Runx3 in the regulation of aggrecan expression during cartilage development. <i>Journal of Cellular Physiology</i> , 2013, 228, 2232-2242.	4.1	22
49	Urine matrix metalloproteinases (MMPs) as biomarkers for the progression of fracture healing. <i>Injury</i> , 2012, 43, 274-278.	1.7	21
50	Absence of mouse pleiotrophin does not affect bone formation in vivo. <i>Bone</i> , 2004, 35, 1247-1255.	2.9	19
51	Transcriptional profiling and biochemical analysis of mechanically induced cartilaginous tissues in a rat model. <i>Arthritis and Rheumatism</i> , 2010, 62, 1108-1118.	6.7	16
52	Expression of smooth muscle actin in cells involved in distraction osteogenesis in a rat model. <i>Journal of Orthopaedic Research</i> , 2003, 21, 20-27.	2.3	9
53	What's New in Musculoskeletal Basic Science. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 2017-2021.	3.0	0