

Tamara Alliston

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

6,440
citations

109137

35
h-index

88477

70
g-index

85
all docs

85
docs citations

85
times ranked

9323
citing authors

#	ARTICLE	IF	CITATIONS
1	A tense situation: forcing tumour progression. <i>Nature Reviews Cancer</i> , 2009, 9, 108-122.	12.8	1,636
2	TGF-beta-induced repression of CBFA1 by Smad3 decreases cbfa1 and osteocalcin expression and inhibits osteoblast differentiation. <i>EMBO Journal</i> , 2001, 20, 2254-2272.	3.5	470
3	Age-related changes in the plasticity and toughness of human cortical bone at multiple length scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14416-14421.	3.3	325
4	Repression of Runx2 function by TGF- β^2 through recruitment of class II histone deacetylases by Smad3. <i>EMBO Journal</i> , 2005, 24, 2543-2555.	3.5	307
5	Characterization of the effects of x-ray irradiation on the hierarchical structure and mechanical properties of human cortical bone. <i>Biomaterials</i> , 2011, 32, 8892-8904.	5.7	250
6	Molecular mechanisms of ovulation and luteinization. <i>Molecular and Cellular Endocrinology</i> , 1998, 145, 47-54.	1.6	205
7	TGF- β regulates the mechanical properties and composition of bone matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18813-18818.	3.3	193
8	Matrix metalloproteinase-13 is required for osteocytic perilacunar remodeling and maintains bone fracture resistance. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1936-1950.	3.1	185
9	ECM stiffness primes the TGF- β^2 pathway to promote chondrocyte differentiation. <i>Molecular Biology of the Cell</i> , 2012, 23, 3731-3742.	0.9	173
10	Osteopontin deficiency increases bone fragility but preserves bone mass. <i>Bone</i> , 2010, 46, 1564-1573.	1.4	169
11	Pharmacologic Inhibition of the TGF- β^2 Type I Receptor Kinase Has Anabolic and Anti-Catabolic Effects on Bone. <i>PLoS ONE</i> , 2009, 4, e5275.	1.1	163
12	Osteocyte-Intrinsic TGF- β^2 Signaling Regulates Bone Quality through Perilacunar/Canalicular Remodeling. <i>Cell Reports</i> , 2017, 21, 2585-2596.	2.9	128
13	Structured three-dimensional co-culture of mesenchymal stem cells with chondrocytes promotes chondrogenic differentiation without hypertrophy. <i>Osteoarthritis and Cartilage</i> , 2011, 19, 1210-1218.	0.6	121
14	How Tough Is Brittle Bone? Investigating Osteogenesis Imperfecta in Mouse Bone. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1392-1401.	3.1	119
15	Transforming Growth Factor- β^2 1 Regulation of Collagenase-3 Expression in Osteoblastic Cells by Cross-talk between the Smad and MAPK Signaling Pathways and Their Components, Smad2 and Runx2. <i>Journal of Biological Chemistry</i> , 2004, 279, 19327-19334.	1.6	117
16	Chondrocyte-Intrinsic Smad3 represses Runx2-Inducible matrix metalloproteinase 13 expression to maintain articular cartilage and prevent osteoarthritis. <i>Arthritis and Rheumatism</i> , 2012, 64, 3278-3289.	6.7	114
17	Reduced size-independent mechanical properties of cortical bone in high-fat diet-induced obesity. <i>Bone</i> , 2010, 46, 217-225.	1.4	90
18	Interfering with bone remodelling. <i>Nature</i> , 2002, 416, 686-687.	13.7	81

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19	Repression of Bone Morphogenetic Protein and Activin-inducible Transcription by Evi-1. <i>Journal of Biological Chemistry</i> , 2005, 280, 24227-24237.	1.6	79
20	Smad3 binds scleraxis and mohawk and regulates tendon matrix organization. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1475-1483.	1.2	79
21	Changes in cortical bone response to high-fat diet from adolescence to adulthood in mice. <i>Osteoporosis International</i> , 2011, 22, 2283-2293.	1.3	76
22	Glucocorticoid suppression of osteocyte perilacunar remodeling is associated with subchondral bone degeneration in osteonecrosis. <i>Scientific Reports</i> , 2017, 7, 44618.	1.6	71
23	Biological Regulation of Bone Quality. <i>Current Osteoporosis Reports</i> , 2014, 12, 366-375.	1.5	70
24	Load Regulates Bone Formation and Sclerostin Expression through a TGF β ² -Dependent Mechanism. <i>PLoS ONE</i> , 2013, 8, e53813.	1.1	69
25	Regulation of postnatal bone homeostasis by TGF β ² . <i>BoneKEy Reports</i> , 2013, 2, 255.	2.7	68
26	Osteocyte dysfunction promotes osteoarthritis through MMP13-dependent suppression of subchondral bone homeostasis. <i>Bone Research</i> , 2019, 7, 34.	5.4	67
27	The tissue diagnostic instrument. <i>Review of Scientific Instruments</i> , 2009, 80, 054303.	0.6	66
28	Bone marrow lesions in osteoarthritis: What lies beneath. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1818-1825.	1.2	62
29	Disrupted osteocyte connectivity and pericellular fluid flow in bone with aging and defective TGF- β ² signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	58
30	Accumulation of Exogenous Activated TGF- β ² in the Superficial Zone of Articular Cartilage. <i>Biophysical Journal</i> , 2013, 104, 1794-1804.	0.2	57
31	Fatigue as the missing link between bone fragility and fracture. <i>Nature Biomedical Engineering</i> , 2018, 2, 62-71.	11.6	57
32	Ligand-Independent and Tissue-Selective Androgen Receptor Inhibition by Pyrvinium. <i>ACS Chemical Biology</i> , 2014, 9, 692-702.	1.6	46
33	Evolution of a developmental mechanism: Species-specific regulation of the cell cycle and the timing of events during craniofacial osteogenesis. <i>Developmental Biology</i> , 2014, 385, 380-395.	0.9	44
34	Mechanobiology of TGF β ² signaling in the skeleton. <i>Matrix Biology</i> , 2016, 52-54, 413-425.	1.5	42
35	Investigating Osteocytic Perilacunar/Canalicular Remodeling. <i>Current Osteoporosis Reports</i> , 2019, 17, 157-168.	1.5	39
36	Tissue-specific calibration of extracellular matrix material properties by transforming growth factor- β ² and Runx2 in bone is required for hearing. <i>EMBO Reports</i> , 2010, 11, 765-771.	2.0	37

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37	Parallel mechanisms suppress cochlear bone remodeling to protect hearing. <i>Bone</i> , 2016, 89, 7-15.	1.4	37
38	Chronic kidney disease and aging differentially diminish bone material and microarchitecture in C57Bl/6 mice. <i>Bone</i> , 2019, 127, 91-103.	1.4	37
39	Biologically Regulated Marrow Stimulation by Blocking TGF- β 1 With Losartan Oral Administration Results in Hyaline-like Cartilage Repair: A Rabbit Osteochondral Defect Model. <i>American Journal of Sports Medicine</i> , 2020, 48, 974-984.	1.9	32
40	Local tissue properties of human osteoarthritic cartilage correlate with magnetic resonance ρ relaxation times. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1312-1319.	1.2	30
41	Chondroitin sulfate and growth factor signaling in the skeleton: Possible links to MPS VI. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2010, 3, 129-138.	0.3	27
42	TGF- β Regulation of Perilacunar/Canalicular Remodeling Is Sexually Dimorphic. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1549-1561.	3.1	25
43	Mechanosensitive Control of Articular Cartilage and Subchondral Bone Homeostasis in Mice Requires Osteocytic Transforming Growth Factor β Signaling. <i>Arthritis and Rheumatology</i> , 2021, 73, 414-425.	2.9	25
44	The use of polyacrylamide gels for mechanical calibration of cartilage – A combined nanoindentation and unconfined compression study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1540-1547.	1.5	24
45	Effects of cell type and configuration on anabolic and catabolic activity in 3D co-culture of mesenchymal stem cells and nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2017, 35, 61-73.	1.2	23
46	Glucocorticoids cause mandibular bone fragility and suppress osteocyte perilacunar-canalicular remodeling. <i>Bone Reports</i> , 2018, 9, 145-153.	0.2	20
47	Disrupted Bone Remodeling Leads to Cochlear Overgrowth and Hearing Loss in a Mouse Model of Fibrous Dysplasia. <i>PLoS ONE</i> , 2014, 9, e94989.	1.1	18
48	Fluid shear stress generates a unique signaling response by activating multiple TGF- β family type I receptors in osteocytes. <i>FASEB Journal</i> , 2021, 35, e21263.	0.2	18
49	Osteoarthritis Pathophysiology. <i>Clinics in Geriatric Medicine</i> , 2022, 38, 193-219.	1.0	17
50	Prolonged alendronate treatment prevents the decline in serum TGF- β 1 levels and reduces cortical bone strength in long-term estrogen deficiency rat model. <i>Bone</i> , 2013, 52, 424-432.	1.4	14
51	Elevated TGF- β 2 signaling in dentin results in sex related enamel defects. <i>Archives of Oral Biology</i> , 2007, 52, 814-821.	0.8	13
52	A comparison of alendronate to varying magnitude PEMF in mitigating bone loss and altering bone remodeling in skeletally mature osteoporotic rats. <i>Bone</i> , 2021, 143, 115761.	1.4	13
53	Smad4 regulates growth plate matrix production and chondrocyte polarity. <i>Biology Open</i> , 2017, 6, 358-364.	0.6	11
54	Treatment with anti-Sclerostin antibody to stimulate mandibular bone formation. <i>Head and Neck</i> , 2018, 40, 1453-1460.	0.9	11

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55	Quantitative and qualitative bone imaging: A review of synchrotron radiation microtomography analysis in bone research. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103887.	1.5	11
56	Transforming Growth Factor- β 2. , 2008, , 1145-1166.		10
57	CYLD, a mechanosensitive deubiquitinase, regulates TGF β 2 signaling in load-induced bone formation. <i>Bone</i> , 2020, 131, 115148.	1.4	10
58	The importance of diversity, equity, and inclusion in orthopaedic research. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1661-1665.	1.2	10
59	Prioritization of Genes Relevant to Bone Fragility Through the Unbiased Integration of Aging Mouse Bone Transcriptomics and Human GWAS Analyses. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 804-817.	3.1	10
60	Development of a porous poly(DL-lactide-co-glycolic acid)-based scaffold for mastoid air-cell regeneration. <i>Laryngoscope</i> , 2013, 123, 3156-3161.	1.1	9
61	Dynamic imaging demonstrates that pulsed electromagnetic fields (PEMF) suppress IL-6 transcription in bovine nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2018, 36, 778-787.	1.2	7
62	T1 ρ -based fibril-reinforced poroviscoelastic constitutive relation of human articular cartilage using inverse finite element technology. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 359-370.	1.1	7
63	Assessment of Osteocytes: Techniques for Studying Morphological and Molecular Changes Associated with Perilacunar/Canalicular Remodeling of the Bone Matrix. <i>Methods in Molecular Biology</i> , 2021, 2230, 303-323.	0.4	7
64	In situ materials characterization using the tissue diagnostic instrument. <i>Polymer Testing</i> , 2010, 29, 159-163.	2.3	6
65	Mechanosensitive miR-100 coordinates TGF β 2 and Wnt signaling in osteocytes during fluid shear stress. <i>FASEB Journal</i> , 2021, 35, e21883.	0.2	6
66	A modular approach to creating large engineered cartilage surfaces. <i>Journal of Biomechanics</i> , 2018, 67, 177-183.	0.9	5
67	Correlating high-resolution magic angle spinning NMR spectroscopy and gene analysis in osteoarthritic cartilage. <i>NMR in Biomedicine</i> , 2015, 28, 523-528.	1.6	4
68	TGF β 2 and Runx2 calibration of bone extracellular matrix quality for tissue-specific function. <i>IBMS BoneKEy</i> , 2011, 8, 370-380.	0.1	2
69	Bone Quality Sleuths: Uncovering Tissue-Level Mechanisms of Bone Fragility in Human Type 2 Diabetes. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1189-1190.	3.1	2
70	Altered canalicular remodeling associated with femur fracture in mice. <i>Journal of Orthopaedic Research</i> , 2021, , .	1.2	2
71	Smads In Mesenchymal Differentiation. , 2006, , 93-112.		1
72	At the Crux of Joint Crosstalk: TGF β 2 Signaling in the Synovial Joint. <i>Current Rheumatology Reports</i> , 2022, 24, 184-197.	2.1	1

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73	Examination of Bone Ossification Markers in Cochlear Development. Laryngoscope, 2011, 121, S313.	1.1	0
74	Calluses Flex Their Muscles to Align Bone Fragments during Fracture Repair. Developmental Cell, 2014, 31, 137-138.	3.1	0
75	Pulsed Electromagnetic Fields (PEMF) Inhibit Matrix Metalloproteinase-13 Expression in Human Annulus Fibrosus Cells. Spine Journal, 2014, 14, S167.	0.6	0
76	Targeted Loss of Proteoglycans Results in Changes of Frequency-Dependent Viscoelastic Behavior of the Intact Articular Cartilage., 2012,, .		0