

Tamara Alliston

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2390696/publications.pdf>

Version: 2024-02-01

76
papers

6,440
citations

109321

35
h-index

88630

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. Nature Reviews Cancer, 2009, 9, 108-122.	28.4	1,636
2	TGF-beta-induced repression of CBFA1 by Smad3 decreases cbfa1 and osteocalcin expression and inhibits osteoblast differentiation. EMBO Journal, 2001, 20, 2254-2272.	7.8	470
3	Age-related changes in the plasticity and toughness of human cortical bone at multiple length scales. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14416-14421.	7.1	325
4	Repression of Runx2 function by TGF- β^2 through recruitment of class II histone deacetylases by Smad3. EMBO Journal, 2005, 24, 2543-2555.	7.8	307
5	Characterization of the effects of x-ray irradiation on the hierarchical structure and mechanical properties of human cortical bone. Biomaterials, 2011, 32, 8892-8904.	11.4	250
6	Molecular mechanisms of ovulation and luteinization. Molecular and Cellular Endocrinology, 1998, 145, 47-54.	3.2	205
7	TGF- β regulates the mechanical properties and composition of bone matrix. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18813-18818.	7.1	193
8	Matrix metalloproteinase-13 is required for osteocytic perilacunar remodeling and maintains bone fracture resistance. Journal of Bone and Mineral Research, 2012, 27, 1936-1950.	2.8	185
9	ECM stiffness primes the TGF- β^2 pathway to promote chondrocyte differentiation. Molecular Biology of the Cell, 2012, 23, 3731-3742.	2.1	173
10	Osteopontin deficiency increases bone fragility but preserves bone mass. Bone, 2010, 46, 1564-1573.	2.9	169
11	Pharmacologic Inhibition of the TGF- β^2 Type I Receptor Kinase Has Anabolic and Anti-Catabolic Effects on Bone. PLoS ONE, 2009, 4, e5275.	2.5	163
12	Osteocyte-Intrinsic TGF- β^2 Signaling Regulates Bone Quality through Perilacunar/Canalicular Remodeling. Cell Reports, 2017, 21, 2585-2596.	6.4	128
13	Structured three-dimensional co-culture of mesenchymal stem cells with chondrocytes promotes chondrogenic differentiation without hypertrophy. Osteoarthritis and Cartilage, 2011, 19, 1210-1218.	1.3	121
14	How Tough Is Brittle Bone? Investigating Osteogenesis Imperfecta in Mouse Bone. Journal of Bone and Mineral Research, 2014, 29, 1392-1401.	2.8	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. Journal of Biological Chemistry, 2004, 279, 19327-19334.	3.4	117
16	Chondrocyte-Intrinsic Smad3 represses Runx2-Inducible matrix metalloproteinase 13 expression to maintain articular cartilage and prevent osteoarthritis. Arthritis and Rheumatism, 2012, 64, 3278-3289.	6.7	114
17	Reduced size-independent mechanical properties of cortical bone in high-fat diet-induced obesity. Bone, 2010, 46, 217-225.	2.9	90
18	Interfering with bone remodelling. Nature, 2002, 416, 686-687.	27.8	81

#	ARTICLE	IF	CITATIONS
19	Repression of Bone Morphogenetic Protein and Activin-inducible Transcription by Evi-1. Journal of Biological Chemistry, 2005, 280, 24227-24237.	3.4	79
20	Smad3 binds scleraxis and mohawk and regulates tendon matrix organization. Journal of Orthopaedic Research, 2013, 31, 1475-1483.	2.3	79
21	Changes in cortical bone response to high-fat diet from adolescence to adulthood in mice. Osteoporosis International, 2011, 22, 2283-2293.	3.1	76
22	Glucocorticoid suppression of osteocyte perilacunar remodeling is associated with subchondral bone degeneration in osteonecrosis. Scientific Reports, 2017, 7, 44618.	3.3	71
23	Biological Regulation of Bone Quality. Current Osteoporosis Reports, 2014, 12, 366-375.	3.6	70
24	Load Regulates Bone Formation and Sclerostin Expression through a TGF β ² -Dependent Mechanism. PLoS ONE, 2013, 8, e53813.	2.5	69
25	Regulation of postnatal bone homeostasis by TGF β ² . BoneKEy Reports, 2013, 2, 255.	2.7	68
26	Osteocyte dysfunction promotes osteoarthritis through MMP13-dependent suppression of subchondral bone homeostasis. Bone Research, 2019, 7, 34.	11.4	67
27	The tissue diagnostic instrument. Review of Scientific Instruments, 2009, 80, 054303.	1.3	66
28	Bone marrow lesions in osteoarthritis: What lies beneath. Journal of Orthopaedic Research, 2018, 36, 1818-1825.	2.3	62
29	Disrupted osteocyte connectivity and pericellular fluid flow in bone with aging and defective TGF- β ² signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	58
30	Accumulation of Exogenous Activated TGF- β ² in the Superficial Zone of Articular Cartilage. Biophysical Journal, 2013, 104, 1794-1804.	0.5	57
31	Fatigue as the missing link between bone fragility and fracture. Nature Biomedical Engineering, 2018, 2, 62-71.	22.5	57
32	Ligand-Independent and Tissue-Selective Androgen Receptor Inhibition by Pyrvinium. ACS Chemical Biology, 2014, 9, 692-702.	3.4	46
33	Evolution of a developmental mechanism: Species-specific regulation of the cell cycle and the timing of events during craniofacial osteogenesis. Developmental Biology, 2014, 385, 380-395.	2.0	44
34	Mechanobiology of TGF β ² signaling in the skeleton. Matrix Biology, 2016, 52-54, 413-425.	3.6	42
35	Investigating Osteocytic Perilacunar/Canalicular Remodeling. Current Osteoporosis Reports, 2019, 17, 157-168.	3.6	39
36	Tissue-specific calibration of extracellular matrix material properties by transforming growth factor β ² and Runx2 in bone is required for hearing. EMBO Reports, 2010, 11, 765-771.	4.5	37

#	ARTICLE	IF	CITATIONS
37	Parallel mechanisms suppress cochlear bone remodeling to protect hearing. <i>Bone</i> , 2016, 89, 7-15.	2.9	37
38	Chronic kidney disease and aging differentially diminish bone material and microarchitecture in C57Bl/6 mice. <i>Bone</i> , 2019, 127, 91-103.	2.9	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.	4.2	32
40	Local tissue properties of human osteoarthritic cartilage correlate with magnetic resonance $T_1\rho$ relaxation times. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1312-1319.	2.3	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.	0.5	27
42	TGF- β Regulation of Perilacunar/Canalicular Remodeling Is Sexually Dimorphic. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1549-1561.	2.8	25
43	Mechanosensitive Control of Articular Cartilage and Subchondral Bone Homeostasis in Mice Requires Osteocytic Transforming Growth Factor β 2 Signaling. <i>Arthritis and Rheumatology</i> , 2021, 73, 414-425.	5.6	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.	3.1	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.	2.3	23
46	Glucocorticoids cause mandibular bone fragility and suppress osteocyte perilacunar-canalicular remodeling. <i>Bone Reports</i> , 2018, 9, 145-153.	0.4	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.	2.5	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.	0.5	18
49	Osteoarthritis Pathophysiology. <i>Clinics in Geriatric Medicine</i> , 2022, 38, 193-219.	2.6	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.	2.9	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.	1.8	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.	2.9	13
53	Smad4 regulates growth plate matrix production and chondrocyte polarity. <i>Biology Open</i> , 2017, 6, 358-364.	1.2	11
54	Treatment with anti- α 1(Sclerostin antibody to stimulate mandibular bone formation. <i>Head and Neck</i> , 2018, 40, 1453-1460.	2.0	11

#	ARTICLE	IF	CITATIONS
55	Quantitative and qualitative bone imaging: A review of synchrotron radiation microtomography analysis in bone research. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103887.	3.1	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. Bone, 2020, 131, 115148.	2.9	10
58	The importance of diversity, equity, and inclusion in orthopedic research. Journal of Orthopaedic Research, 2020, 38, 1661-1665.	2.3	10
59	Prioritization of Genes Relevant to Bone Fragility Through the Unbiased Integration of Aging Mouse Bone Transcriptomics and Human GWAS Analyses. Journal of Bone and Mineral Research, 2020, 37, 804-817.	2.8	10
60	Development of a porous poly(DL-lactic acid-co-glycolic acid)-based scaffold for mastoid air-cell regeneration. Laryngoscope, 2013, 123, 3156-3161.	2.0	9
61	Dynamic imaging demonstrates that pulsed electromagnetic fields (PEMF) suppress IL-6 transcription in bovine nucleus pulposus cells. Journal of Orthopaedic Research, 2018, 36, 778-787.	2.3	7
62	T1 ρ -based fibril-reinforced poroviscoelastic constitutive relation of human articular cartilage using inverse finite element technology. Quantitative Imaging in Medicine and Surgery, 2019, 9, 359-370.	2.0	7
63	Assessment of Osteocytes: Techniques for Studying Morphological and Molecular Changes Associated with Perilacunar/Canalicular Remodeling of the Bone Matrix. Methods in Molecular Biology, 2021, 2230, 303-323.	0.9	7
64	In situ materials characterization using the tissue diagnostic instrument. Polymer Testing, 2010, 29, 159-163.	4.8	6
65	Mechanosensitive miR-100 coordinates TGF β^2 and Wnt signaling in osteocytes during fluid shear stress. FASEB Journal, 2021, 35, e21883.	0.5	6
66	A modular approach to creating large engineered cartilage surfaces. Journal of Biomechanics, 2018, 67, 177-183.	2.1	5
67	Correlating high-resolution magic angle spinning NMR spectroscopy and gene analysis in osteoarthritic cartilage. NMR in Biomedicine, 2015, 28, 523-528.	2.8	4
68	TGF β^2 and Runx2 calibration of bone extracellular matrix quality for tissue-specific function. IBMS BoneKEy, 2011, 8, 370-380.	0.0	2
69	Bone Quality Sleuths: Uncovering Tissue-Level Mechanisms of Bone Fragility in Human Type 2 Diabetes. Journal of Bone and Mineral Research, 2019, 34, 1189-1190.	2.8	2
70	Altered canalicular remodeling associated with femur fracture in mice. Journal of Orthopaedic Research, 2021, , .	2.3	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. Current Rheumatology Reports, 2022, 24, 184-197.	4.7	1

#	ARTICLE	IF	CITATIONS
73	Examination of Bone Ossification Markers in Cochlear Development. Laryngoscope, 2011, 121, S313.	2.0	0
74	Calluses Flex Their Muscles to Align Bone Fragments during Fracture Repair. Developmental Cell, 2014, 31, 137-138.	7.0	0
75	Pulsed Electromagnetic Fields (PEMF) Inhibit Matrix Metalloproteinase-13 Expression in Human Annulus Fibrosus Cells. Spine Journal, 2014, 14, S167.	1.3	0
76	Targeted Loss of Proteoglycans Results in Changes of Frequency-Dependent Viscoelastic Behavior of the Intact Articular Cartilage. , 2012, , .		0