

# Tamara Alliston

## List of Publications by Year in descending order

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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	Osteoarthritis Pathophysiology. <i>Clinics in Geriatric Medicine</i> , 2022, 38, 193-219.	1.0	17
2	At the Crux of Joint Crosstalk: TGF $\beta$ 2 Signaling in the Synovial Joint. <i>Current Rheumatology Reports</i> , 2022, 24, 184-197.	2.1	1
3	Mechanosensitive Control of Articular Cartilage and Subchondral Bone Homeostasis in Mice Requires Osteocytic Transforming Growth Factor $\beta$ 2 Signaling. <i>Arthritis and Rheumatology</i> , 2021, 73, 414-425.	2.9	25
4	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
5	Fluid shear stress generates a unique signaling response by activating multiple TGF $\beta$ 2 family type I receptors in osteocytes. <i>FASEB Journal</i> , 2021, 35, e21263.	0.2	18
6	Disrupted osteocyte connectivity and pericellular fluid flow in bone with aging and defective TGF $\beta$ 2 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	58
7	Altered canalicular remodeling associated with femur fracture in mice. <i>Journal of Orthopaedic Research</i> , 2021, , .	1.2	2
8	Mechanosensitive miRâ€100 coordinates TGF $\beta$ 2 and Wnt signaling in osteocytes during fluid shear stress. <i>FASEB Journal</i> , 2021, 35, e21883.	0.2	6
9	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
10	CYLD, a mechanosensitive deubiquitinase, regulates TGF $\beta$ 2 signaling in load-induced bone formation. <i>Bone</i> , 2020, 131, 115148.	1.4	10
11	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
12	Biologically Regulated Marrow Stimulation by Blocking TGF $\beta$ 21 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
13	The importance of diversity, equity, and inclusion in orthopedic research. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1661-1665.	1.2	10
14	<sc>TGF $\beta$ 2</sc> Regulation of Perilacunar/Canalicular Remodeling Is Sexually Dimorphic. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1549-1561.	3.1	25
15	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
16	Osteocyte dysfunction promotes osteoarthritis through MMP13-dependent suppression of subchondral bone homeostasis. <i>Bone Research</i> , 2019, 7, 34.	5.4	67
17	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
18	Investigating Osteocytic Perilacunar/Canalicular Remodeling. <i>Current Osteoporosis Reports</i> , 2019, 17, 157-168.	1.5	39

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19	T11-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
20	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
21	Dynamic imaging demonstrates that pulsed electromagnetic fields (PEMF) suppress IL6 transcription in bovine nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2018, 36, 778-787.	1.2	7
22	Fatigue as the missing link between bone fragility and fracture. <i>Nature Biomedical Engineering</i> , 2018, 2, 62-71.	11.6	57
23	Bone marrow lesions in osteoarthritis: What lies beneath. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1818-1825.	1.2	62
24	Treatment with anti-ESclerostin antibody to stimulate mandibular bone formation. <i>Head and Neck</i> , 2018, 40, 1453-1460.	0.9	11
25	A modular approach to creating large engineered cartilage surfaces. <i>Journal of Biomechanics</i> , 2018, 67, 177-183.	0.9	5
26	Glucocorticoids cause mandibular bone fragility and suppress osteocyte perilacunar-canalicular remodeling. <i>Bone Reports</i> , 2018, 9, 145-153.	0.2	20
27	Glucocorticoid suppression of osteocyte perilacunar remodeling is associated with subchondral bone degeneration in osteonecrosis. <i>Scientific Reports</i> , 2017, 7, 44618.	1.6	71
28	Osteocyte-Intrinsic TGF-Î2 Signaling Regulates Bone Quality through Perilacunar/Canalicular Remodeling. <i>Cell Reports</i> , 2017, 21, 2585-2596.	2.9	128
29	Smad4 regulates growth plate matrix production and chondrocyte polarity. <i>Biology Open</i> , 2017, 6, 358-364.	0.6	11
30	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
31	Mechanobiology of TGFÎ2 signaling in the skeleton. <i>Matrix Biology</i> , 2016, 52-54, 413-425.	1.5	42
32	Parallel mechanisms suppress cochlear bone remodeling to protect hearing. <i>Bone</i> , 2016, 89, 7-15.	1.4	37
33	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
34	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
35	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
36	Calluses Flex Their Muscles to Align Bone Fragments during Fracture Repair. <i>Developmental Cell</i> , 2014, 31, 137-138.	3.1	0

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37	Pulsed Electromagnetic Fields (PEMF) Inhibit Matrix Metalloproteinase-13 Expression in Human Annulus Fibrosus Cells. Spine Journal, 2014, 14, S167.	0.6	0
38	Ligand-Independent and Tissue-Selective Androgen Receptor Inhibition by Pyrvinium. ACS Chemical Biology, 2014, 9, 692-702.	1.6	46
39	Biological Regulation of Bone Quality. Current Osteoporosis Reports, 2014, 12, 366-375.	1.5	70
40	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.	0.9	44
41	Accumulation of Exogenous Activated TGF- $\beta$ 2 in the Superficial Zone of Articular Cartilage. Biophysical Journal, 2013, 104, 1794-1804.	0.2	57
42	Regulation of postnatal bone homeostasis by TGF- $\beta$ 2. BoneKey Reports, 2013, 2, 255.	2.7	68
43	Development of a porous poly(DL-lactic acid-co-glycolic acid)-based scaffold for mastoid air cell regeneration. Laryngoscope, 2013, 123, 3156-3161.	1.1	9
44	Prolonged alendronate treatment prevents the decline in serum TGF- $\beta$ 1 levels and reduces cortical bone strength in long-term estrogen deficiency rat model. Bone, 2013, 52, 424-432.	1.4	14
45	Smad3 binds scleraxis and mohawk and regulates tendon matrix organization. Journal of Orthopaedic Research, 2013, 31, 1475-1483.	1.2	79
46	Load Regulates Bone Formation and Sclerostin Expression through a TGF- $\beta$ 2-Dependent Mechanism. PLoS ONE, 2013, 8, e53813.	1.1	69
47	ECM stiffness primes the TGF- $\beta$ 2 pathway to promote chondrocyte differentiation. Molecular Biology of the Cell, 2012, 23, 3731-3742.	0.9	173
48	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
49	Matrix metalloproteinase-13 is required for osteocytic perilacunar remodeling and maintains bone fracture resistance. Journal of Bone and Mineral Research, 2012, 27, 1936-1950.	3.1	185
50	Targeted Loss of Proteoglycans Results in Changes of Frequency-Dependent Viscoelastic Behavior of the Intact Articular Cartilage. , 2012, , .		0
51	The use of polyacrylamide gels for mechanical calibration of cartilage - A combined nanoindentation and unconfined compression study. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1540-1547.	1.5	24
52	Structured three-dimensional co-culture of mesenchymal stem cells with chondrocytes promotes chondrogenic differentiation without hypertrophy. Osteoarthritis and Cartilage, 2011, 19, 1210-1218.	0.6	121
53	Characterization of the effects of x-ray irradiation on the hierarchical structure and mechanical properties of human cortical bone. Biomaterials, 2011, 32, 8892-8904.	5.7	250
54	Changes in cortical bone response to high-fat diet from adolescence to adulthood in mice. Osteoporosis International, 2011, 22, 2283-2293.	1.3	76

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55	Examination of Bone Ossification Markers in Cochlear Development. <i>Laryngoscope</i> , 2011, 121, S313.	1.1	0
56	Local tissue properties of human osteoarthritic cartilage correlate with magnetic resonance $T_1$ relaxation times. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1312-1319.	1.2	30
57	TGF $\beta^2$ and Runx2 calibration of bone extracellular matrix quality for tissue-specific function. <i>IBMS BoneKEy</i> , 2011, 8, 370-380.	0.1	2
58	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
59	In situ materials characterization using the tissue diagnostic instrument. <i>Polymer Testing</i> , 2010, 29, 159-163.	2.3	6
60	Tissue-specific calibration of extracellular matrix material properties by transforming growth factor $\beta^2$ and Runx2 in bone is required for hearing. <i>EMBO Reports</i> , 2010, 11, 765-771.	2.0	37
61	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
62	Reduced size-independent mechanical properties of cortical bone in high-fat diet-induced obesity. <i>Bone</i> , 2010, 46, 217-225.	1.4	90
63	Osteopontin deficiency increases bone fragility but preserves bone mass. <i>Bone</i> , 2010, 46, 1564-1573.	1.4	169
64	The tissue diagnostic instrument. <i>Review of Scientific Instruments</i> , 2009, 80, 054303.	0.6	66
65	A tense situation: forcing tumour progression. <i>Nature Reviews Cancer</i> , 2009, 9, 108-122.	12.8	1,636
66	Pharmacologic Inhibition of the TGF $\beta^2$ Type I Receptor Kinase Has Anabolic and Anti-Catabolic Effects on Bone. <i>PLoS ONE</i> , 2009, 4, e5275.	1.1	163
67	Transforming Growth Factor $\beta^2$ . , 2008, , 1145-1166.		10
68	Elevated TGF $\beta^2$ signaling in dentin results in sex related enamel defects. <i>Archives of Oral Biology</i> , 2007, 52, 814-821.	0.8	13
69	Smads In Mesenchymal Differentiation. , 2006, , 93-112.		1
70	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
71	TGF $\beta$ 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
72	Repression of Runx2 function by TGF $\beta^2$ through recruitment of class II histone deacetylases by Smad3. <i>EMBO Journal</i> , 2005, 24, 2543-2555.	3.5	307

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73	Transforming Growth Factor- $\beta$ 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.	1.6	117
74	Interfering with bone remodelling. Nature, 2002, 416, 686-687.	13.7	81
75	TGF-beta-induced repression of CBFA1 by Smad3 decreases cbfa1 and osteocalcin expression and inhibits osteoblast differentiation. EMBO Journal, 2001, 20, 2254-2272.	3.5	470
76	Molecular mechanisms of ovulation and luteinization. Molecular and Cellular Endocrinology, 1998, 145, 47-54.	1.6	205