Ryan E Tomlinson

List of Publications by Year in Descending Order

41 papers	913 citations	17 h-index	30 g-index
48 ext. papers	1,231 ext. citations	6.3 avg, IF	4.4 L-index

#	Paper	IF	Citations
41	Null Mice-a Model for Mineralization Disorder PXE Shows Vertebral Osteopenia Without Enhanced Intervertebral Disc Calcification With Aging.. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 823249	5.7	0
40	Enhancing precision in bioprinting utilizing fuzzy systems. *Bioprinting*, **2022**, 25, e00190	7	0
39	Circulating inflammatory cytokines alter transcriptional activity within fibrotic tissue of Dupuytren's disease patients. *Journal of Orthopaedic Research*, **2021**,	3.8	1
38	Function of peripheral nerves in the development and healing of tendon and bone. *Seminars in Cell and Developmental Biology*, **2021**, 123, 48-48	7.5	1
37	The TrkA agonist gambogic amide augments skeletal adaptation to mechanical loading. *Bone*, **2021**, 147, 115908	4.7	2
36	Emerging evidence that adaptive bone formation inhibition by non-steroidal anti-inflammatory drugs increases stress fracture risk. *Experimental Biology and Medicine*, **2021**, 246, 1104-1111	3.7	
35	Leveraging Advancements in Tissue Engineering for Bioprinting Dental Tissues. *Bioprinting*, **2021**, 23,	7	2
34	Mechanisms of reducing joint stiffness by blocking collagen fibrillogenesis in a rabbit model of posttraumatic arthrofibrosis. *PLoS ONE*, **2021**, 16, e0257147	3.7	1
33	Local injections of ENGF accelerates endochondral fracture repair by promoting cartilage to bone conversion. *Scientific Reports*, **2020**, 10, 22241	4.9	4
32	Preclinical Single Photon Emission Computed Tomography of Alpha Particle-Emitting Radium-223. *Cancer Biotherapy and Radiopharmaceuticals*, **2020**, 35, 520-529	3.9	6
31	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP. *PLoS Genetics*, **2020**, 16, e1008884	6	25
30	Frizzled-4 is required for normal bone acquisition despite compensation by Frizzled-8. *Journal of Cellular Physiology*, **2020**, 235, 6673-6683	7	5
29	Vascular and nerve interactions **2020**, 205-218		
28	The Role of Nerves in Skeletal Development, Adaptation, and Aging. *Frontiers in Endocrinology*, **2020**, 11, 646	5.7	11
27	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884		
26	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884		
25	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884		

24	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884		
23	The impact of cholesterol deposits on the fibrillar architecture of the Achilles tendon in a rabbit model of hypercholesterolemia. *Journal of Orthopaedic Surgery and Research*, **2019**, 14, 172	2.8	7
22	Naproxen impairs load-induced bone formation, reduces bone toughness, and diminishes woven bone formation following stress fracture in mice. *Bone*, **2019**, 124, 22-32	4.7	13
21	The Role of Bone Marrow Aspirate Concentrate for the Treatment of Focal Chondral Lesions of the Knee: A Systematic Review and Critical Analysis of Animal and Clinical Studies. *Arthroscopy - Journal of Arthroscopic and Related Surgery*, **2019**, 35, 1860-1877	5.4	24
20	Fracture repair requires TrkA signaling by skeletal sensory nerves. *Journal of Clinical Investigation*, **2019**, 129, 5137-5150	15.9	50
19	Connexin43 and Runx2 Interact to Affect Cortical Bone Geometry, Skeletal Development, and Osteoblast and Osteoclast Function. *Journal of Bone and Mineral Research*, **2017**, 32, 1727-1738	6.3	31
18	NGF-TrkA signaling in sensory nerves is required for skeletal adaptation to mechanical loads in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3632-E3641	11.5	79
17	Ectopic calcification in pseudoxanthoma elasticum responds to inhibition of tissue-nonspecific alkaline phosphatase. *Science Translational Medicine*, **2017**, 9,	17.5	63
16	Defective signaling, osteoblastogenesis and bone remodeling in a mouse model of connexin 43 C-terminal truncation. *Journal of Cell Science*, **2017**, 130, 531-540	5.3	42
15	Sclerostin influences body composition by regulating catabolic and anabolic metabolism in adipocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11238-E11247	11.5	75
14	Activin receptor type 2A (ACVR2A) functions directly in osteoblasts as a negative regulator of bone mass. *Journal of Biological Chemistry*, **2017**, 292, 13809-13822	5.4	37
13	The hypoxia-inducible factor-1 activates ectopic production of fibroblast growth factor 23 in tumor-induced osteomalacia. *Bone Research*, **2016**, 4, 16011	13.3	40
12	NGF-TrkA Signaling by Sensory Nerves Coordinates the Vascularization and Ossification of Developing Endochondral Bone. *Cell Reports*, **2016**, 16, 2723-2735	10.6	74
11	Dysregulated TGF- signaling alters bone microstructure in a mouse model of Loeys-Dietz syndrome. *Journal of Orthopaedic Research*, **2015**, 33, 1447-54	3.8	7
10	HIF-1 regulates bone formation after osteogenic mechanical loading. *Bone*, **2015**, 73, 98-104	4.7	21
9	Tsc2 is a molecular checkpoint controlling osteoblast development and glucose homeostasis. *Molecular and Cellular Biology*, **2014**, 34, 1850-62	4.8	45
8	Nitric oxide-mediated vasodilation increases blood flow during the early stages of stress fracture healing. *Journal of Applied Physiology*, **2014**, 116, 416-24	3.7	10
7	Antagonizing the integrin inhibits angiogenesis and impairs woven but not lamellar bone formation induced by mechanical loading. *Journal of Bone and Mineral Research*, **2014**, 29, 1970-80	6.3	10

6	Angiogenesis is required for stress fracture healing in rats. *Bone*, **2013**, 52, 212-9	4.7	32
5	Anti-resorptive agents reduce the size of resorption cavities: a three-dimensional dynamic bone histomorphometry study. *Bone*, **2013**, 57, 277-83	4.7	14
4	Skeletal Blood Flow in Bone Repair and Maintenance. *Bone Research*, **2013**, 1, 311-22	13.3	125
3	Quantification of skeletal blood flow and fluoride metabolism in rats using PET in a pre-clinical stress fracture model. *Molecular Imaging and Biology*, **2012**, 14, 348-54	3.8	13
2	Three-dimensional surface texture visualization of bone tissue through epifluorescence-based serial block face imaging. *Journal of Microscopy*, **2009**, 236, 52-9	1.9	25
1	Voxel size and measures of individual resorption cavities in three-dimensional images of cancellous bone. *Bone*, **2009**, 45, 487-92	4.7	18