

# Ryan E Tomlinson

## List of Publications by Citations

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Skeletal Blood Flow in Bone Repair and Maintenance. <i>Bone Research</i> , <b>2013</b> , 1, 311-22	13.3	125
40	NGF-TrkA signaling in sensory nerves is required for skeletal adaptation to mechanical loads in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3632-E3641	11.5	79
39	Sclerostin influences body composition by regulating catabolic and anabolic metabolism in adipocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E11238-E11247	11.5	75
38	NGF-TrkA Signaling by Sensory Nerves Coordinates the Vascularization and Ossification of Developing Endochondral Bone. <i>Cell Reports</i> , <b>2016</b> , 16, 2723-2735	10.6	74
37	Ectopic calcification in pseudoxanthoma elasticum responds to inhibition of tissue-nonspecific alkaline phosphatase. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	63
36	Fracture repair requires TrkA signaling by skeletal sensory nerves. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 5137-5150	15.9	50
35	Tsc2 is a molecular checkpoint controlling osteoblast development and glucose homeostasis. <i>Molecular and Cellular Biology</i> , <b>2014</b> , 34, 1850-62	4.8	45
34	Defective signaling, osteoblastogenesis and bone remodeling in a mouse model of connexin 43 C-terminal truncation. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 531-540	5.3	42
33	The hypoxia-inducible factor-1 $\alpha$ activates ectopic production of fibroblast growth factor 23 in tumor-induced osteomalacia. <i>Bone Research</i> , <b>2016</b> , 4, 16011	13.3	40
32	Activin receptor type 2A (ACVR2A) functions directly in osteoblasts as a negative regulator of bone mass. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13809-13822	5.4	37
31	Angiogenesis is required for stress fracture healing in rats. <i>Bone</i> , <b>2013</b> , 52, 212-9	4.7	32
30	Connexin43 and Runx2 Interact to Affect Cortical Bone Geometry, Skeletal Development, and Osteoblast and Osteoclast Function. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 1727-1738	6.3	31
29	The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008884	6	25
28	Three-dimensional surface texture visualization of bone tissue through epifluorescence-based serial block face imaging. <i>Journal of Microscopy</i> , <b>2009</b> , 236, 52-9	1.9	25
27	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. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2019</b> , 35, 1860-1877	5.4	24
26	HIF-1 $\alpha$ regulates bone formation after osteogenic mechanical loading. <i>Bone</i> , <b>2015</b> , 73, 98-104	4.7	21
25	Voxel size and measures of individual resorption cavities in three-dimensional images of cancellous bone. <i>Bone</i> , <b>2009</b> , 45, 487-92	4.7	18

24	Anti-resorptive agents reduce the size of resorption cavities: a three-dimensional dynamic bone histomorphometry study. <i>Bone</i> , <b>2013</b> , 57, 277-83	4.7	14
23	Naproxen impairs load-induced bone formation, reduces bone toughness, and diminishes woven bone formation following stress fracture in mice. <i>Bone</i> , <b>2019</b> , 124, 22-32	4.7	13
22	Quantification of skeletal blood flow and fluoride metabolism in rats using PET in a pre-clinical stress fracture model. <i>Molecular Imaging and Biology</i> , <b>2012</b> , 14, 348-54	3.8	13
21	The Role of Nerves in Skeletal Development, Adaptation, and Aging. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 646	5.7	11
20	Nitric oxide-mediated vasodilation increases blood flow during the early stages of stress fracture healing. <i>Journal of Applied Physiology</i> , <b>2014</b> , 116, 416-24	3.7	10
19	Antagonizing the $\alpha 5 \beta 1$ integrin inhibits angiogenesis and impairs woven but not lamellar bone formation induced by mechanical loading. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 1970-80	6.3	10
18	The impact of cholesterol deposits on the fibrillar architecture of the Achilles tendon in a rabbit model of hypercholesterolemia. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2019</b> , 14, 172	2.8	7
17	Dysregulated TGF- $\beta$ signaling alters bone microstructure in a mouse model of Loeys-Dietz syndrome. <i>Journal of Orthopaedic Research</i> , <b>2015</b> , 33, 1447-54	3.8	7
16	Preclinical Single Photon Emission Computed Tomography of Alpha Particle-Emitting Radium-223. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2020</b> , 35, 520-529	3.9	6
15	Frizzled-4 is required for normal bone acquisition despite compensation by Frizzled-8. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 6673-6683	7	5
14	Local injections of ENGf accelerates endochondral fracture repair by promoting cartilage to bone conversion. <i>Scientific Reports</i> , <b>2020</b> , 10, 22241	4.9	4
13	The TrkA agonist gambogic amide augments skeletal adaptation to mechanical loading. <i>Bone</i> , <b>2021</b> , 147, 115908	4.7	2
12	Leveraging Advancements in Tissue Engineering for Bioprinting Dental Tissues. <i>Bioprinting</i> , <b>2021</b> , 23,	7	2
11	Circulating inflammatory cytokines alter transcriptional activity within fibrotic tissue of Dupuytren's disease patients. <i>Journal of Orthopaedic Research</i> , <b>2021</b> ,	3.8	1
10	Function of peripheral nerves in the development and healing of tendon and bone. <i>Seminars in Cell and Developmental Biology</i> , <b>2021</b> , 123, 48-48	7.5	1
9	Mechanisms of reducing joint stiffness by blocking collagen fibrillogenesis in a rabbit model of posttraumatic arthrofibrosis. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257147	3.7	1
8	Null Mice-a Model for Mineralization Disorder PXE Shows Vertebral Osteopenia Without Enhanced Intervertebral Disc Calcification With Aging.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 823249	5.7	0
7	Enhancing precision in bioprinting utilizing fuzzy systems. <i>Bioprinting</i> , <b>2022</b> , 25, e00190	7	0

6 Vascular and nerve interactions **2020**, 205-218

5 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

4 The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884

3 The membrane protein ANKH is crucial for bone mechanical performance by mediating cellular export of citrate and ATP **2020**, 16, e1008884

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