Blaine A Christiansen

List of Publications by Year in Descending Order

68 papers	4,113 citations	23 h-index	64 g-index
85 ext. papers	5,001 ext. citations	3.9 avg, IF	5.43 L-index

#	Paper	IF	Citations
68	Preexisting Type 1 Diabetes Mellitus Blunts the Development of Posttraumatic Osteoarthritis.. *JBMR Plus*, **2022**, 6, e10625	3.9	2
67	Post-traumatic osteoarthritis progression is diminished by early mechanical unloading and anti-inflammatory treatment in mice. *Osteoarthritis and Cartilage*, **2021**,	6.2	2
66	Single-Cell RNA-Seq Reveals Transcriptomic Heterogeneity and Post-Traumatic Osteoarthritis-Associated Early Molecular Changes in Mouse Articular Chondrocytes. *Cells*, **2021**, 10,	7.9	9
65	Sex differences in systemic bone and muscle loss following femur fracture in mice. *Journal of Orthopaedic Research*, **2021**,	3.8	1
64	The microbiome mediates epiphyseal bone loss and metabolomic changes after acute joint trauma in mice. *Osteoarthritis and Cartilage*, **2021**, 29, 882-893	6.2	4
63	Systemic bone loss following myocardial infarction in mice. *Journal of Orthopaedic Research*, **2021**, 39, 739-749	3.8	0
62	LPS-Induced Inflammation Prior to Injury Exacerbates the Development of Post-Traumatic Osteoarthritis in Mice. *Journal of Bone and Mineral Research*, **2020**, 35, 2229-2241	6.3	15
61	Global Gene Expression Analysis Identifies Age-Related Differences in Knee Joint Transcriptome during the Development of Post-Traumatic Osteoarthritis in Mice. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	13
60	Thermoresponsive, hollow, degradable core-shell nanoparticles for intra-articular delivery of anti-inflammatory peptide. *Journal of Controlled Release*, **2020**, 323, 47-58	11.7	15
59	The Role of Nerves in Skeletal Development, Adaptation, and Aging. *Frontiers in Endocrinology*, **2020**, 11, 646	5.7	11
58	Region-dependent bone loss in the lumbar spine following femoral fracture in mice. *Bone*, **2020**, 140, 115555	4.7	1
57	Antibiotic Treatment Prior to Injury Improves Post-Traumatic Osteoarthritis Outcomes in Mice. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
56	InternalBrace has biomechanical properties comparable to suture button but less rigid than screw in ligamentous lisfranc model. *Journal of Orthopaedics*, **2020**, 17, 7-12	1.6	1
55	Acute Changes in NADPH Oxidase 4 in Early Post-Traumatic Osteoarthritis. *Journal of Orthopaedic Research*, **2019**, 37, 2429-2436	3.8	6
54	Age Dependence of Systemic Bone Loss and Recovery Following Femur Fracture in Mice. *Journal of Bone and Mineral Research*, **2019**, 34, 157-170	6.3	15
53	SOST/Sclerostin Improves Posttraumatic Osteoarthritis and Inhibits MMP2/3 Expression After Injury. *Journal of Bone and Mineral Research*, **2018**, 33, 1105-1113	6.3	27
52	The mechanism of thoracolumbar burst fracture may be related to the basivertebral foramen. *Spine Journal*, **2018**, 18, 472-481	4	5

51	Incident fracture is associated with a period of accelerated loss of hip BMD: the Study of Osteoporotic Fractures. *Osteoporosis International*, **2018**, 29, 2201-2209	5.3	14
50	Comparison of knee injury threshold during tibial compression based on limb orientation in mice. *Journal of Biomechanics*, **2018**, 74, 220-224	2.9	5
49	Achieving interfragmentary compression without special drilling technique or screw design. *Journal of Orthopaedic Research*, **2018**, 36, 1099-1105	3.8	0
48	Osteophytes and fracture calluses share developmental milestones and are diminished by unloading. *Journal of Orthopaedic Research*, **2018**, 36, 699-710	3.8	10
47	Systemic Bone Loss After Fracture. *Clinical Reviews in Bone and Mineral Metabolism*, **2018**, 16, 116-130	2.5	12
46	Age-dependent bone loss and recovery during hindlimb unloading and subsequent reloading in rats. *BMC Musculoskeletal Disorders*, **2018**, 19, 223	2.8	18
45	Comparative Transcriptomics Identifies Novel Genes and Pathways Involved in Post-Traumatic Osteoarthritis Development and Progression. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	18
44	Osteophyte formation after ACL rupture in mice is associated with joint restabilization and loss of range of motion. *Journal of Orthopaedic Research*, **2017**, 35, 466-473	3.8	30
43	Trabecular Microstructure and Damage Affect Cement Leakage From the Basivertebral Foramen During Vertebral Augmentation. *Spine*, **2017**, 42, E939-E948	3.3	5
42	Global molecular changes in a tibial compression induced ACL rupture model of post-traumatic osteoarthritis. *Journal of Orthopaedic Research*, **2017**, 35, 474-485	3.8	31
41	Bone adaptation to mechanical loading in a mouse model of reduced peripheral sensory nerve function. *PLoS ONE*, **2017**, 12, e0187354	3.7	16
40	Contribution of mechanical unloading to trabecular bone loss following non-invasive knee injury in mice. *Journal of Orthopaedic Research*, **2016**, 34, 1680-1687	3.8	20
39	Autophagy-linked FYVE containing protein WDFY3 interacts with TRAF6 and modulates RANKL-induced osteoclastogenesis. *Journal of Autoimmunity*, **2016**, 73, 73-84	15.5	14
38	Sostdc1 deficiency accelerates fracture healing by promoting the expansion of periosteal mesenchymal stem cells. *Bone*, **2016**, 88, 20-30	4.7	25
37	Effect of micro-computed tomography voxel size and segmentation method on trabecular bone microstructure measures in mice. *Bone Reports*, **2016**, 5, 136-40	2.6	51
36	Non-invasive mouse models of post-traumatic osteoarthritis. *Osteoarthritis and Cartilage*, **2015**, 23, 1627-38	3.8	70
35	Trabecular bone loss at a distant skeletal site following noninvasive knee injury in mice. *Journal of Biomechanical Engineering*, **2015**, 137,	2.1	5
34	Effect of alendronate on post-traumatic osteoarthritis induced by anterior cruciate ligament rupture in mice. *Arthritis Research and Therapy*, **2015**, 17, 30	5.7	42

33	Management of Osteoarthritis with Avocado/Soybean Unsaponifiables. *Cartilage*, **2015**, 6, 30-44	3	55
32	BMP-7 and Bone Regeneration: Evaluation of Dose-Response in a Rodent Segmental Defect Model. *Journal of Orthopaedic Trauma*, **2015**, 29, e336-41	3.1	13
31	SOST Inhibits Prostate Cancer Invasion. *PLoS ONE*, **2015**, 10, e0142058	3.7	20
30	Bone Material Properties and Skeletal Fragility. *Calcified Tissue International*, **2015**, 97, 213-28	3.9	19
29	Closed Joint ACL Disruption Murine Model of PTA **2015**, 75-85		
28	Comparison of loading rate-dependent injury modes in a murine model of post-traumatic osteoarthritis. *Journal of Orthopaedic Research*, **2014**, 32, 79-88	3.8	52
27	In vivo fluorescence reflectance imaging of protease activity in a mouse model of post-traumatic osteoarthritis. *Osteoarthritis and Cartilage*, **2014**, 22, 1461-9	6.2	25
26	The effect of noggin interference in a rabbit posterolateral spinal fusion model. *European Spine Journal*, **2014**, 23, 2385-92	2.7	6
25	Cyclin-dependent kinase 9 inhibition protects cartilage from the catabolic effects of proinflammatory cytokines. *Arthritis and Rheumatology*, **2014**, 66, 1537-46	9.5	24
24	Remineralized bone matrix as a scaffold for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4480-90	5.4	6
23	Altered bone development in a mouse model of peripheral sensory nerve inactivation. *Journal of Musculoskeletal Neuronal Interactions*, **2014**, 14, 1-9	1.3	19
22	Assessment of Bone Mass and Microarchitecture in Rodents **2013**, 59-68		
21	Remineralization of demineralized bone matrix (DBM) via alternating solution immersion (ASI). *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 26, 109-18	4.1	9
20	Cartilage oligomeric matrix protein enhances osteogenesis by directly binding and activating bone morphogenetic protein-2. *Bone*, **2013**, 55, 23-35	4.7	34
19	Partial reductions in mechanical loading yield proportional changes in bone density, bone architecture, and muscle mass. *Journal of Bone and Mineral Research*, **2013**, 28, 875-85	6.3	62
18	Locking versus nonlocking construct in an osteoporotic, segmental fibula defect model. *Orthopedics*, **2013**, 36, e1262-8	1.5	5
17	Musculoskeletal changes following non-invasive knee injury using a novel mouse model of post-traumatic osteoarthritis. *Osteoarthritis and Cartilage*, **2012**, 20, 773-82	6.2	124
16	Long-term administration of AMD3100, an antagonist of SDF-1/CXCR4 signaling, alters fracture repair. *Journal of Orthopaedic Research*, **2012**, 30, 1853-9	3.8	55

15	QCT measures of bone strength at the thoracic and lumbar spine: the Framingham Study. *Journal of Bone and Mineral Research*, **2012**, 27, 654-63	6.3	40
14	Mechanical and morphological properties of trabecular bone samples obtained from third metacarpal bones of cadavers of horses with a bone fragility syndrome and horses unaffected by that syndrome. *American Journal of Veterinary Research*, **2012**, 73, 1742-51	1.1	6
13	Reliability of vertebral fracture assessment using multidetector CT lateral scout views: the Framingham Osteoporosis Study. *Osteoporosis International*, **2011**, 22, 1123-31	5.3	37
12	Mechanical contributions of the cortical and trabecular compartments contribute to differences in age-related changes in vertebral body strength in men and women assessed by QCT-based finite element analysis. *Journal of Bone and Mineral Research*, **2011**, 26, 974-83	6.3	87
11	Methods in Bone Biology in Animals: Imaging **2011**, 45-56		
10	A biomechanical model for estimating loads on thoracic and lumbar vertebrae. *Clinical Biomechanics*, **2010**, 25, 853-8	2.2	49
9	Biomechanics of vertebral fractures and the vertebral fracture cascade. *Current Osteoporosis Reports*, **2010**, 8, 198-204	5.4	67
8	Guidelines for assessment of bone microstructure in rodents using micro-computed tomography. *Journal of Bone and Mineral Research*, **2010**, 25, 1468-86	6.3	2608
7	Whole-body vibration and weight loss: truth or consequence?. *International Journal of Obesity*, **2009** , 33, 384; author reply 382-3	5.5	3
6	Constrained tibial vibration does not produce an anabolic bone response in adult mice. *Bone*, **2009**, 45, 750-9	4.7	16
5	Age-related changes in bone morphology are accelerated in group VIA phospholipase A2 (iPLA2beta)-null mice. *American Journal of Pathology*, **2008**, 172, 868-81	5.8	48
4	Constrained tibial vibration in mice: a method for studying the effects of vibrational loading of bone. *Journal of Biomechanical Engineering*, **2008**, 130, 044502	2.1	21
3	The effect of varying magnitudes of whole-body vibration on several skeletal sites in mice. *Annals of Biomedical Engineering*, **2006**, 34, 1149-56	4.7	77
2	The microbiome mediates subchondral bone loss and metabolomic changes after acute joint trauma		1
1	Age dependence of systemic bone loss and recovery following femur fracture in mice		1