

Michelle Maree McDonald

List of Publications by Citations

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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.

59
papers

3,292
citations

26
h-index

57
g-index

60
ext. papers

3,881
ext. citations

6.3
avg, IF

5.11
L-index

#	Paper	IF	Citations
59	Bone remodeling during fracture repair: The cellular picture. <i>Seminars in Cell and Developmental Biology</i> , 2008 , 19, 459-66	7.5	575
58	Bone metastasis: the importance of the neighbourhood. <i>Nature Reviews Cancer</i> , 2016 , 16, 373-86	31.3	275
57	Osteoclasts control reactivation of dormant myeloma cells by remodelling the endosteal niche. <i>Nature Communications</i> , 2015 , 6, 8983	17.4	232
56	The incorporation of strontium and zinc into a calcium-silicon ceramic for bone tissue engineering. <i>Biomaterials</i> , 2010 , 31, 3175-84	15.6	230
55	Novel role of Y1 receptors in the coordinated regulation of bone and energy homeostasis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 19092-102	5.4	152
54	Optimal timing of a single dose of zoledronic acid to increase strength in rat fracture repair. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 867-76	6.3	151
53	Bolus or weekly zoledronic acid administration does not delay endochondral fracture repair but weekly dosing enhances delays in hard callus remodeling. <i>Bone</i> , 2008 , 43, 653-62	4.7	122
52	Neuropeptide Y knockout mice reveal a central role of NPY in the coordination of bone mass to body weight. <i>PLoS ONE</i> , 2009 , 4, e8415	3.7	118
51	Inhibiting the osteocyte-specific protein sclerostin increases bone mass and fracture resistance in multiple myeloma. <i>Blood</i> , 2017 , 129, 3452-3464	2.2	117
50	Manipulation of the anabolic and catabolic responses with OP-1 and zoledronic acid in a rat critical defect model. <i>Journal of Bone and Mineral Research</i> , 2005 , 20, 2044-52	6.3	107
49	Hypothalamic regulation of cortical bone mass: opposing activity of Y2 receptor and leptin pathways. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 1600-7	6.3	95
48	The skeletal cell-derived molecule sclerostin drives bone marrow adipogenesis. <i>Journal of Cellular Physiology</i> , 2018 , 233, 1156-1167	7	85
47	Mechanical load increases in bone formation via a sclerostin-independent pathway. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 2456-67	6.3	79
46	The murine stanniocalcin 2 gene is a negative regulator of postnatal growth. <i>Endocrinology</i> , 2008 , 149, 2403-10	4.8	65
45	Intermittent PTH(1-34) does not increase union rates in open rat femoral fractures and exhibits attenuated anabolic effects compared to closed fractures. <i>Bone</i> , 2010 , 46, 852-9	4.7	61
44	Zoledronic acid improves femoral head sphericity in a rat model of perthes disease. <i>Journal of Orthopaedic Research</i> , 2005 , 23, 862-8	3.8	60
43	A niche-dependent myeloid transcriptome signature defines dormant myeloma cells. <i>Blood</i> , 2019 , 134, 30-43	2.2	54

42	Models of tibial fracture healing in normal and Nf1-deficient mice. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 1053-60	3.8	50
41	Osteoclasts recycle via osteomorphs during RANKL-stimulated bone resorption. <i>Cell</i> , 2021 , 184, 1330-1347	4.7	139
40	Augmentation of autologous bone graft by a combination of bone morphogenic protein and bisphosphonate increased both callus volume and strength. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013 , 84, 106-11	4.3	47
39	Modeling bone morphogenetic protein and bisphosphonate combination therapy in wild-type and Nf1 haploinsufficient mice. <i>Journal of Orthopaedic Research</i> , 2008 , 26, 65-74	3.8	44
38	Inhibition of sclerostin by systemic treatment with sclerostin antibody enhances healing of proximal tibial defects in ovariectomized rats. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1541-8	3.8	40
37	Adipose, Bone, and Myeloma: Contributions from the Microenvironment. <i>Calcified Tissue International</i> , 2017 , 100, 433-448	3.9	39
36	The use of heparan sulfate to augment fracture repair in a rat fracture model. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 636-44	3.8	31
35	Prostate cancer cell-intrinsic interferon signaling regulates dormancy and metastatic outgrowth in bone. <i>EMBO Reports</i> , 2020 , 21, e50162	6.5	28
34	Actin-3 deficiency is associated with reduced bone mass in human and mouse. <i>Bone</i> , 2011 , 49, 790-8	4.7	27
33	Endochondral fracture healing with external fixation in the Sost knockout mouse results in earlier fibrocartilage callus removal and increased bone volume fraction and strength. <i>Bone</i> , 2015 , 71, 155-63	4.7	26
32	Matrix metalloproteinase-driven endochondral fracture union proceeds independently of osteoclast activity. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 1550-60	6.3	22
31	Sclerostin Antibody Augments the Anabolic Bone Formation Response in a Mouse Model of Mechanical Tibial Loading. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 486-498	6.3	21
30	Modulation of endochondral ossification by MEK inhibitors PD0325901 and AZD6244 (Selumetinib). <i>Bone</i> , 2014 , 59, 151-61	4.7	19
29	Signaling between tumor cells and the host bone marrow microenvironment. <i>Calcified Tissue International</i> , 2014 , 94, 125-39	3.9	19
28	Tumor Cell Dormancy and Reactivation in Bone: Skeletal Biology and Therapeutic Opportunities. <i>JBMR Plus</i> , 2019 , 3, e10125	3.9	18
27	Neuropeptide Y modulates fracture healing through Y1 receptor signaling. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1570-8	3.8	18
26	Characterization of the bone phenotype and fracture repair in osteopetrotic incisors absent rats. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 726-33	3.8	17
25	Myeloma-Modified Adipocytes Exhibit Metabolic Dysfunction and a Senescence-Associated Secretory Phenotype. <i>Cancer Research</i> , 2021 , 81, 634-647	10.1	17

24	Bisphosphonate-laden acrylic bone cement: mechanical properties, elution performance, and in vivo activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 87, 482-91	3.5	15
23	Bisphosphonate treatment and fracture repair. <i>BoneKEY Osteovision</i> , 2007 , 4, 236-251		15
22	Rapid cell culture and pre-clinical screening of a transforming growth factor-beta (TGF-beta) inhibitor for orthopaedics. <i>BMC Musculoskeletal Disorders</i> , 2010 , 11, 105	2.8	14
21	Cancer Cell Dormancy in Metastasis. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020 , 10,	5.4	14
20	Sclerostin: an Emerging Target for the Treatment of Cancer-Induced Bone Disease. <i>Current Osteoporosis Reports</i> , 2017 , 15, 532-541	5.4	13
19	Loss of the Vitamin D Receptor in Human Breast Cancer Cells Promotes Epithelial to Mesenchymal Cell Transition and Skeletal Colonization. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 1721-1732	6.3	13
18	Anti-Sclerostin Treatment Prevents Multiple Myeloma Induced Bone Loss and Reduces Tumor Burden. <i>Blood</i> , 2015 , 126, 119-119	2.2	13
17	Osteocyte transcriptome mapping identifies a molecular landscape controlling skeletal homeostasis and susceptibility to skeletal disease. <i>Nature Communications</i> , 2021 , 12, 2444	17.4	12
16	Homozygous Dkk1 Knockout Mice Exhibit High Bone Mass Phenotype Due to Increased Bone Formation. <i>Calcified Tissue International</i> , 2018 , 102, 105-116	3.9	10
15	Sclerostin Antibody Increases Callus Size and Strength but does not Improve Fracture Union in a Challenged Open Rat Fracture Model. <i>Calcified Tissue International</i> , 2017 , 101, 217-228	3.9	8
14	Melphalan modifies the bone microenvironment by enhancing osteoclast formation. <i>Oncotarget</i> , 2017 , 8, 68047-68058	3.3	8
13	New Insights Into Osteoclast Biology. <i>JBMR Plus</i> , 2021 , 5, e10539	3.9	7
12	Elevated Bone Hardness Under Denosumab Treatment, With Persisting Lower Osteocyte Viability During Discontinuation. <i>Frontiers in Endocrinology</i> , 2020 , 11, 250	5.7	6
11	Sclerostin antibody enhances bone formation in a rat model of distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 1106-1113	3.8	6
10	Dkk1 KO Mice Treated with Sclerostin Antibody Have Additional Increases in Bone Volume. <i>Calcified Tissue International</i> , 2018 , 103, 298-310	3.9	5
9	Polyostotic hyperostosis in a domestic shorthair cat. <i>Journal of Feline Medicine and Surgery</i> , 2014 , 16, 432-40	2.3	2
8	Multiple Myeloma Progression: Dependence on Bone Marrow Adipose Tissue. <i>Blood</i> , 2016 , 128, 3262-3262		2
7	Increased anabolic bone response in Dkk1 KO mice following tibial compressive loading. <i>Bone</i> , 2020 , 131, 115054	4.7	2

6	Tumor Cell Dormancy—Hallmark of Metastatic Growth and Disease Recurrence in Bone. <i>Current Molecular Biology Reports</i> , 2018 , 4, 50-58	2	1
5	Visualisation of tumour cells in bone in vivo at single-cell resolution. <i>Bone</i> , 2021 , 116113	4-7	1
4	Pretreatment with Pamidronate Decreases Bone Formation but Increases Callus Bone Volume in a Rat Closed Fracture Model. <i>Calcified Tissue International</i> , 2020 , 106, 172-179	3-9	1
3	Augmented feedback in autistic disorder. <i>South African Journal of Childhood Education</i> , 2017 , 7, 9	1-1	
2	Myeloma Bone Disease 2020 , 342-354		
1	Pre-clinical fracture repair investigations: Meeting report from the 30th Annual Meeting of the American Society for Bone and Mineral Research. <i>IBMS BoneKEy</i> , 2008 , 5, 390-395		