

# Alesha B Castillo

## List of Publications by Year in descending order

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42  
papers

2,777  
citations

236925

25  
h-index

330143

37  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3840  
citing authors

#	ARTICLE	IF	CITATIONS
1	BIOMECHANICAL AND MOLECULAR REGULATION OF BONE REMODELING. Annual Review of Biomedical Engineering, 2006, 8, 455-498.	12.3	1,007
2	Osteocyte Mechanobiology and Pericellular Mechanics. Annual Review of Biomedical Engineering, 2010, 12, 369-400.	12.3	178
3	Exercise When Young Provides Lifelong Benefits to Bone Structure and Strength. Journal of Bone and Mineral Research, 2006, 22, 251-259.	2.8	158
4	The epigenetic mechanism of mechanically induced osteogenic differentiation. Journal of Biomechanics, 2010, 43, 2881-2886.	2.1	133
5	Biological Effects of Short-Term or Prolonged Administration of 9-[2-(Phosphonomethoxy)Propyl]Adenine (Tenofovir) to Newborn and Infant Rhesus Macaques. Antimicrobial Agents and Chemotherapy, 2004, 48, 1469-1487.	3.2	132
6	Mechanosensing by the Primary Cilium: Deletion of Kif3A Reduces Bone Formation Due to Loading. PLoS ONE, 2012, 7, e33368.	2.5	106
7	Mesenchymal Stem Cell Mechanobiology. Current Osteoporosis Reports, 2010, 8, 98-104.	3.6	80
8	Oxygen-sensing PHDs regulate bone homeostasis through the modulation of osteoprotegerin. Genes and Development, 2015, 29, 817-831.	5.9	78
9	Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in growing rhesus monkeys ( <i>Macaca mulatta</i> ). Journal of Orthopaedic Research, 2002, 20, 1185-1189.	2.3	63
10	Primary Cilia: Cellular Sensors for the Skeleton. Anatomical Record, 2008, 291, 1074-1078.	1.4	63
11	The skeletal responsiveness to mechanical loading is enhanced in mice with a null mutation in estrogen receptor-1 $\beta$ . American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E484-E491.	3.5	62
12	Grizzly bears ( <i>Ursus arctos horribilis</i> ) and black bears ( <i>Ursus americanus</i> ) prevent trabecular bone loss during disuse (hibernation). Bone, 2009, 45, 1186-1191.	2.9	59
13	Wnt3a Reestablishes Osteogenic Capacity to Bone Grafts from Aged Animals. Journal of Bone and Joint Surgery - Series A, 2013, 95, 1278-1288.	3.0	52
14	Nanotopographic Regulation of Human Mesenchymal Stem Cell Osteogenesis. ACS Applied Materials & Interfaces, 2017, 9, 41794-41806.	8.0	52
15	The Selective Serotonin Reuptake Inhibitor Fluoxetine Directly Inhibits Osteoblast Differentiation and Mineralization During Fracture Healing in Mice. Journal of Bone and Mineral Research, 2017, 32, 821-833.	2.8	51
16	Effects of mechanical loading on cortical defect repair using a novel mechanobiological model of bone healing. Bone, 2018, 108, 145-155.	2.9	50
17	Low-amplitude, broad-frequency vibration effects on cortical bone formation in mice. Bone, 2006, 39, 1087-1096.	2.9	39
18	Focal Adhesion Kinase Plays a Role in Osteoblast Mechanotransduction In Vitro but Does Not Affect Load-Induced Bone Formation In Vivo. PLoS ONE, 2012, 7, e43291.	2.5	37

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19	Osteoblast-derived paracrine factors regulate angiogenesis in response to mechanical stimulation. Integrative Biology (United Kingdom), 2016, 8, 785-794.	1.3	35
20	Mechanical Loading Promotes the Expansion of Primitive Osteoprogenitors and Organizes Matrix and Vascular Morphology in Long Bone Defects. Journal of Bone and Mineral Research, 2019, 34, 896-910.	2.8	35
21	Knee ligament mechanical properties are not influenced by estrogen or its receptors. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1034-E1040.	3.5	33
22	Decellularized Tendon-Bone Composite Grafts for Extremity Reconstruction. Plastic and Reconstructive Surgery, 2014, 133, 79-89.	1.4	33
23	CXCR4 antagonism attenuates load-induced periosteal bone formation in mice. Journal of Orthopaedic Research, 2013, 31, 1828-1838.	2.3	29
24	Deletion of $\alpha 1$ Integrins from Cortical Osteocytes Reduces Load-Induced Bone Formation. Cellular and Molecular Bioengineering, 2009, 2, 416-424.	2.1	26
25	Physicochemical Decellularization of Composite Flexor Tendon-Bone Interface Grafts. Plastic and Reconstructive Surgery, 2013, 132, 94-102.	1.4	26
26	Estrogen receptor $\alpha 2$ regulates mechanical signaling in primary osteoblasts. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E937-E944.	3.5	26
27	Bone Homeostasis and Repair: Forced Into Shape. Current Rheumatology Reports, 2015, 17, 58.	4.7	21
28	Targeting Osteogenesis-Angiogenesis Coupling for Bone Repair. Journal of the American Academy of Orthopaedic Surgeons, The, 2018, 26, e153-e155.	2.5	16
29	Mechanical loading causes site-specific anabolic effects on bone following exposure to ionizing radiation. Bone, 2015, 81, 260-269.	2.9	15
30	Site-specific Load-induced Expansion of Sca-1 <sup>+</sup> Prrx1 <sup>+</sup> and Sca-1 <sup>+</sup> Prrx1 <sup>+</sup> Cells in Adult Mouse Long Bone Is Attenuated With Age. JBMR Plus, 2019, 3, e10199.	2.7	15
31	Mechanically-regulated bone repair. Bone, 2022, 154, 116223.	2.9	15
32	Comparison of tricalcium phosphate cement and cancellous autograft as bone void filler in acetabular fractures with marginal impaction. Injury, 2013, 44, 969-974.	1.7	10
33	Simulated effects of marathon training on bone density, remodeling, and microdamage accumulation of the femur. International Journal of Fatigue, 2007, 29, 1057-1064.	5.7	8
34	Cellular and Molecular Mechanotransduction in Bone. , 2013, , 453-475.		8
35	WNT-activated bone grafts repair osteonecrotic lesions in aged animals. Scientific Reports, 2017, 7, 14254.	3.3	8
36	Geometric mouse variation: Implications to the axial ulnar loading protocol and animal specific calibration. Journal of Biomechanics, 2013, 46, 2271-2276.	2.1	7

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37	Comparison of three methods of calculating strain in the mouse ulna in exogenous loading studies. Journal of Biomechanics, 2015, 48, 53-58.	2.1	5
38	Cells Involved in Mechanotransduction Including Mesenchymal Stem Cells. , 2020, , 311-332.		2
39	Cellular and molecular mechanotransduction in bone. , 2021, , 309-335.		2
40	Introduction for the special issue: Fracture healing and bone regeneration. Clinical Reviews in Bone and Mineral Metabolism, 2015, 13, 207-207.	0.8	0
41	Exercise During Growth Has Long-Term Benefits to Skeletal Health. Medicine and Science in Sports and Exercise, 2006, 38, S72.	0.4	0
42	Bioactive, full-length parathyroid hormone delivered using an adeno-associated viral vector. Experimental Biology and Medicine, 2022, 247, 1885-1897.	2.4	0