

Clinton T Rubin

List of Publications by Year in descending order

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130
papers

13,916
citations

19657

61
h-index

20961

115
g-index

133
all docs

133
docs citations

133
times ranked

8175
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of bone mass by mechanical strain magnitude. <i>Calcified Tissue International</i> , 1985, 37, 411-417.	3.1	1,138
2	Low mechanical signals strengthen long bones. <i>Nature</i> , 2001, 412, 603-604.	27.8	647
3	Osteoregulatory nature of mechanical stimuli: Function as a determinant for adaptive remodeling in bone. <i>Journal of Orthopaedic Research</i> , 1987, 5, 300-310.	2.3	466
4	Prevention of Postmenopausal Bone Loss by a Low-Magnitude, High-Frequency Mechanical Stimuli: A Clinical Trial Assessing Compliance, Efficacy, and Safety. <i>Journal of Bone and Mineral Research</i> , 2003, 19, 343-351.	2.8	457
5	Molecular pathways mediating mechanical signaling in bone. <i>Gene</i> , 2006, 367, 1-16.	2.2	406
6	Dynamic strain similarity in vertebrates; an alternative to allometric limb bone scaling. <i>Journal of Theoretical Biology</i> , 1984, 107, 321-327.	1.7	393
7	Mechanical signals as anabolic agents in bone. <i>Nature Reviews Rheumatology</i> , 2010, 6, 50-59.	8.0	368
8	Low Magnitude Mechanical Loading Is Osteogenic in Children With Disabling Conditions. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 360-369.	2.8	353
9	Quantifying the strain history of bone: spatial uniformity and self-similarity of low-magnitude strains. <i>Journal of Biomechanics</i> , 2000, 33, 317-325.	2.1	334
10	Mechanical regulation of signaling pathways in bone. <i>Gene</i> , 2012, 503, 179-193.	2.2	334
11	Low-Level, High-Frequency Mechanical Signals Enhance Musculoskeletal Development of Young Women With Low BMD. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1464-1474.	2.8	299
12	Quantity and Quality of Trabecular Bone in the Femur Are Enhanced by a Strongly Anabolic, Noninvasive Mechanical Intervention. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 349-357.	2.8	266
13	Mechanical Strain Inhibits Adipogenesis in Mesenchymal Stem Cells by Stimulating a Durable β^2 -Catenin Signal. <i>Endocrinology</i> , 2008, 149, 6065-6075.	2.8	257
14	The anabolic activity of bone tissue, suppressed by disuse, is normalized by brief exposure to extremely low-magnitude mechanical stimuli. <i>FASEB Journal</i> , 2001, 15, 2225-2229.	0.5	251
15	Low-magnitude mechanical signals that stimulate bone formation in the ovariectomized rat are dependent on the applied frequency but not on the strain magnitude. <i>Journal of Biomechanics</i> , 2007, 40, 1333-1339.	2.1	251
16	Suppression of the osteogenic response in the aging skeleton. <i>Calcified Tissue International</i> , 1992, 50, 306-313.	3.1	232
17	Mechanical Stimulation of Mesenchymal Stem Cell Proliferation and Differentiation Promotes Osteogenesis While Preventing Dietary-Induced Obesity. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 50-61.	2.8	232
18	Transcriptional Profiling of Bone Regeneration. <i>Journal of Biological Chemistry</i> , 2002, 277, 30177-30182.	3.4	230

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19	Low-level mechanical vibrations can influence bone resorption and bone formation in the growing skeleton. <i>Bone</i> , 2006, 39, 1059-1066.	2.9	218
20	Strain Gradients Correlate with Sites of Periosteal Bone Formation. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 982-988.	2.8	203
21	Nonlinear dependence of loading intensity and cycle number in the maintenance of bone mass and morphology. <i>Journal of Orthopaedic Research</i> , 1998, 16, 482-489.	2.3	198
22	Fluid pressure gradients, arising from oscillations in intramedullary pressure, is correlated with the formation of bone and inhibition of intracortical porosity. <i>Journal of Biomechanics</i> , 2003, 36, 1427-1437.	2.1	191
23	Transmissibility of 15-Hertz to 35-Hertz Vibrations to the Human Hip and Lumbar Spine: Determining the Physiologic Feasibility of Delivering Low-Level Anabolic Mechanical Stimuli to Skeletal Regions at Greatest Risk of Fracture Because of Osteoporosis. <i>Spine</i> , 2003, 28, 2621-2627.	2.0	178
24	Interrelationship of trabecular mechanical and microstructural properties in sheep trabecular bone. <i>Journal of Biomechanics</i> , 2005, 38, 1229-1237.	2.1	158
25	Mechanical signal influence on mesenchymal stem cell fate is enhanced by incorporation of refractory periods into the loading regimen. <i>Journal of Biomechanics</i> , 2011, 44, 593-599.	2.1	140
26	Combating osteoporosis and obesity with exercise: leveraging cell mechanosensitivity. <i>Nature Reviews Endocrinology</i> , 2019, 15, 339-355.	9.6	140
27	Mechanically induced calcium waves in articular chondrocytes are inhibited by gadolinium and amiloride. <i>Journal of Orthopaedic Research</i> , 1999, 17, 421-429.	2.3	139
28	Genetic predisposition to low bone mass is paralleled by an enhanced sensitivity to signals anabolic to the skeleton. <i>FASEB Journal</i> , 2002, 16, 1280-1282.	0.5	138
29	Low-level accelerations applied in the absence of weight bearing can enhance trabecular bone formation. <i>Journal of Orthopaedic Research</i> , 2007, 25, 732-740.	2.3	136
30	Patterns of strain in the macaque tibia during functional activity. <i>American Journal of Physical Anthropology</i> , 2001, 116, 257-265.	2.1	135
31	Enhancement of the adolescent murine musculoskeletal system using low-level mechanical vibrations. <i>Journal of Applied Physiology</i> , 2008, 104, 1056-1062.	2.5	135
32	Toward an identification of mechanical parameters initiating periosteal remodeling: A combined experimental and analytic approach. <i>Journal of Biomechanics</i> , 1990, 23, 893-905.	2.1	131
33	Inhibition of osteopenia by low magnitude, high-frequency mechanical stimuli. <i>Drug Discovery Today</i> , 2001, 6, 848-858.	6.4	129
34	Genetically Based Influences on the Site-Specific Regulation of Trabecular and Cortical Bone Morphology. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 600-606.	2.8	127
35	Mechanical Loading Regulates NFATc1 and β -Catenin Signaling through a GSK3 β Control Node. <i>Journal of Biological Chemistry</i> , 2009, 284, 34607-34617.	3.4	125
36	Bone marrow fat accumulation accelerated by high fat diet is suppressed by exercise. <i>Bone</i> , 2014, 64, 39-46.	2.9	124

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37	Cell Mechanosensitivity to Extremely Low-Magnitude Signals Is Enabled by a LINCed Nucleus. <i>Stem Cells</i> , 2015, 33, 2063-2076.	3.2	122
38	Patterns of strain in the macaque ulna during functional activity. <i>American Journal of Physical Anthropology</i> , 1998, 106, 87-100.	2.1	117
39	Differentiation of the Bone-Tissue Remodeling Response to Axial and Torsional Loading in the Turkey Ulna. <i>Journal of Bone and Joint Surgery - Series A</i> , 1996, 78, 1523-33.	3.0	111
40	Genetically Linked Site-Specificity of Disuse Osteoporosis. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 607-613.	2.8	110
41	Gap Junctional Intercellular Communication Contributes to Hormonal Responsiveness in Osteoblastic Networks. <i>Journal of Biological Chemistry</i> , 1996, 271, 12165-12171.	3.4	107
42	Obesity-driven disruption of haematopoiesis and the bone marrow niche. <i>Nature Reviews Endocrinology</i> , 2014, 10, 737-748.	9.6	104
43	Temporal Expression of the Chondrogenic and Angiogenic Growth Factor CYR61 During Fracture Repair. <i>Journal of Bone and Mineral Research</i> , 2000, 15, 1014-1023.	2.8	100
44	Consequences of irradiation on bone and marrow phenotypes, and its relation to disruption of hematopoietic precursors. <i>Bone</i> , 2014, 63, 87-94.	2.9	100
45	Low-Level Vibrations Retain Bone Marrow's Osteogenic Potential and Augment Recovery of Trabecular Bone during Reambulation. <i>PLoS ONE</i> , 2010, 5, e11178.	2.5	100
46	Pressure regulates osteoclast formation and MCSF expression in marrow culture. <i>Journal of Cellular Physiology</i> , 1997, 170, 81-87.	4.1	93
47	Low-level mechanical signals and their potential as a non-pharmacological intervention for osteoporosis. <i>Age and Ageing</i> , 2006, 35, ii32-ii36.	1.6	91
48	Morphologie stages in lamellar bone formation stimulated by a potent mechanical stimulus. <i>Journal of Bone and Mineral Research</i> , 1995, 10, 488-495.	2.8	90
49	The Pathway of Bone Fluid Flow as Defined by In Vivo Intramedullary Pressure and Streaming Potential Measurements. <i>Annals of Biomedical Engineering</i> , 2002, 30, 693-702.	2.5	89
50	Adaptations of Trabecular Bone to Low Magnitude Vibrations Result in More Uniform Stress and Strain Under Load. <i>Annals of Biomedical Engineering</i> , 2003, 31, 12-20.	2.5	84
51	Devastation of adult stem cell pools by irradiation precedes collapse of trabecular bone quality and quantity. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 749-759.	2.8	84
52	Low-magnitude high-frequency mechanical signals accelerate and augment endochondral bone repair: Preliminary evidence of efficacy. <i>Journal of Orthopaedic Research</i> , 2009, 27, 922-930.	2.3	82
53	Exercise Decreases Marrow Adipose Tissue Through α -Oxidation in Obese Running Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1692-1702.	2.8	78
54	Uniformity of resorptive bone loss induced by disuse. <i>Journal of Orthopaedic Research</i> , 1995, 13, 708-714.	2.3	77

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55	Combining high-resolution micro-computed tomography with material composition to define the quality of bone tissue. <i>Current Osteoporosis Reports</i> , 2003, 1, 11-19.	3.6	76
56	Electric fields modulate bone cell function in a density-dependent manner. <i>Journal of Bone and Mineral Research</i> , 1993, 8, 977-984.	2.8	75
57	Mechanically Induced Focal Adhesion Assembly Amplifies Anti-Adipogenic Pathways in Mesenchymal Stem Cells. <i>Stem Cells</i> , 2011, 29, 1829-1836.	3.2	71
58	Safety and severity of accelerations delivered from whole body vibration exercise devices to standing adults. <i>Journal of Science and Medicine in Sport</i> , 2013, 16, 526-531.	1.3	69
59	Chondrocytes isolated from mature articular cartilage retain the capacity to form functional gap junctions. <i>Journal of Bone and Mineral Research</i> , 1995, 10, 1359-1364.	2.8	66
60	Small Oscillatory Accelerations, Independent of Matrix Deformations, Increase Osteoblast Activity and Enhance Bone Morphology. <i>PLoS ONE</i> , 2007, 2, e653.	2.5	65
61	High Fat Diet Rapidly Suppresses B Lymphopoiesis by Disrupting the Supportive Capacity of the Bone Marrow Niche. <i>PLoS ONE</i> , 2014, 9, e90639.	2.5	65
62	Short applications of very low-magnitude vibrations attenuate expansion of the intervertebral disc during extended bed rest. <i>Spine Journal</i> , 2009, 9, 470-477.	1.3	63
63	Testing the daily stress stimulus theory of bone adaptation with natural and experimentally controlled strain histories. <i>Journal of Biomechanics</i> , 1997, 30, 671-678.	2.1	62
64	Dynamic Parameters of Balance Which Correlate to Elderly Persons with a History of Falls. <i>PLoS ONE</i> , 2013, 8, e70566.	2.5	60
65	Frequency specific modulation of bone adaptation by induced electric fields. <i>Journal of Theoretical Biology</i> , 1990, 145, 385-396.	1.7	58
66	Bone structure and B cell populations, crippled by obesity, are partially rescued by brief daily exposure to low-magnitude mechanical signals. <i>FASEB Journal</i> , 2012, 26, 4855-4863.	0.5	56
67	The Potential Benefits and Inherent Risks of Vibration as a Non-Drug Therapy for the Prevention and Treatment of Osteoporosis. <i>Current Osteoporosis Reports</i> , 2013, 11, 36-44.	3.6	56
68	Whole-body vibration in the skeleton: Development of a resonance-based testing device. <i>Annals of Biomedical Engineering</i> , 1997, 25, 831-839.	2.5	55
69	Mechanical modulation of molecular signals which regulate anabolic and catabolic activity in bone tissue. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 982-994.	2.6	54
70	Evaluation of trabecular mechanical and microstructural properties in human calcaneal bone of advanced age using mechanical testing, μ CT, and DXA. <i>Journal of Biomechanics</i> , 2008, 41, 368-375.	2.1	52
71	Exercise Regulation of Marrow Fat in the Setting of PPAR γ Agonist Treatment in Female C57BL/6 Mice. <i>Endocrinology</i> , 2015, 156, 2753-2761.	2.8	52
72	Associations of Computed Tomography-Based Trunk Muscle Size and Density With Balance and Falls in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 811-816.	3.6	50

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73	Postural instability caused by extended bed rest is alleviated by brief daily exposure to low magnitude mechanical signals. <i>Gait and Posture</i> , 2011, 33, 429-435.	1.4	49
74	Formation of osteoclast-like cells is suppressed by low frequency, low intensity electric fields. <i>Journal of Orthopaedic Research</i> , 1996, 14, 7-15.	2.3	48
75	Low-Magnitude Mechanical Stimulation to Improve Bone Density in Persons of Advanced Age: A Randomized, Placebo-Controlled Trial. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1319-1328.	2.8	48
76	Genetic variations that regulate bone morphology in the male mouse skeleton do not define its susceptibility to mechanical unloading. <i>Bone</i> , 2004, 35, 1353-1360.	2.9	47
77	Separating Fluid Shear Stress from Acceleration during Vibrations In Vitro: Identification of Mechanical Signals Modulating the Cellular Response. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 266-276.	2.1	45
78	High-frequency, low-magnitude vibrations suppress the number of blood vessels per muscle fiber in mouse soleus muscle. <i>Journal of Applied Physiology</i> , 2005, 98, 2376-2380.	2.5	44
79	Low magnitude and high frequency mechanical loading prevents decreased bone formation responses of 2T3 preosteoblasts. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 306-316.	2.6	44
80	Cell Mechanosensitivity Is Enabled by the LINC Nuclear Complex. <i>Current Molecular Biology Reports</i> , 2016, 2, 36-47.	1.6	41
81	Correlation of bony ingrowth to the distribution of stress and strain parameters surrounding a porous-coated implant. <i>Journal of Orthopaedic Research</i> , 1996, 14, 862-870.	2.3	39
82	Altered Composition of Bone as Triggered by Irradiation Facilitates the Rapid Erosion of the Matrix by Both Cellular and Physicochemical Processes. <i>PLoS ONE</i> , 2013, 8, e64952.	2.5	39
83	Low magnitude mechanical signals mitigate osteopenia without compromising longevity in an aged murine model of spontaneous granulosa cell ovarian cancer. <i>Bone</i> , 2012, 51, 570-577.	2.9	38
84	Low intensity vibration mitigates tumor progression and protects bone quantity and quality in a murine model of myeloma. <i>Bone</i> , 2016, 90, 69-79.	2.9	38
85	Brief daily exposure to low-intensity vibration mitigates the degradation of the intervertebral disc in a frequency-specific manner. <i>Journal of Applied Physiology</i> , 2011, 111, 1846-1853.	2.5	37
86	Functional Adaptation to Loading of a Single Bone Is Neuronally Regulated and Involves Multiple Bones. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1369-1371.	2.8	36
87	Skeletal Cell Stresses and Bone Adaptation. <i>American Journal of the Medical Sciences</i> , 1998, 316, 176-183.	1.1	36
88	Experimental Colitis Impairs Linear Bone Growth Independent of Nutritional Factors. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 1997, 25, 137-141.	1.8	36
89	Ultrasonic measurement of immobilization-induced osteopenia: An experimental study in sheep. <i>Calcified Tissue International</i> , 1988, 42, 309-312.	3.1	35
90	Metabolic modulation of disuse osteopenia: Endocrine-dependent site specificity of bone remodeling. <i>Journal of Bone and Mineral Research</i> , 1990, 5, 1069-1075.	2.8	34

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91	Focal enhancement of the skeleton to exercise correlates to mesenchymal stem cell responsivity rather than peak external forces. <i>Journal of Experimental Biology</i> , 2015, 218, 3002-9.	1.7	34
92	Effect of Low-Magnitude Mechanical Stimuli on Bone Density and Structure in Pediatric Crohn's Disease: A Randomized Placebo-Controlled Trial. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1177-1188.	2.8	32
93	Ultrasonic Wave Propagation in Trabecular Bone Predicted by the Stratified Model. <i>Annals of Biomedical Engineering</i> , 2001, 29, 781-790.	2.5	30
94	Differential Expression of Neuroleukin in Osseous Tissues and Its Involvement in Mineralization During Osteoblast Differentiation. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1994-2004.	2.8	29
95	Establishing the compliance in elderly women for use of a low level mechanical stress device in a clinical osteoporosis study. <i>Osteoporosis International</i> , 2004, 15, 918-926.	3.1	28
96	Mechanical signals as a non-invasive means to influence mesenchymal stem cell fate, promoting bone and suppressing the fat phenotype. <i>IBMS BoneKEy</i> , 2009, 6, 132-149.	0.0	28
97	Transmission of low-intensity vibration through the axial skeleton of persons with spinal cord injury as a potential intervention for preservation of bone quantity and quality. <i>Journal of Spinal Cord Medicine</i> , 2011, 34, 52-59.	1.4	28
98	A reduced-modulus acrylic bone cement: Preliminary results. <i>Journal of Orthopaedic Research</i> , 1990, 8, 623-626.	2.3	27
99	Cement Line Staining in Undecalcified Thin Sections of Cortical Bone. <i>Biotechnic & Histochemistry</i> , 1990, 65, 159-163.	0.4	27
100	Regulation of cytoplasmic calcium concentration in tetracycline-treated osteoclasts. <i>Journal of Bone and Mineral Research</i> , 1992, 7, 1313-1318.	2.8	27
101	Increased expression of matrix metalloproteinase-1 in osteocytes precedes bone resorption as stimulated by disuse: Evidence for autoregulation of the cell's mechanical environment?. <i>Journal of Orthopaedic Research</i> , 1999, 17, 354-361.	2.3	25
102	Automated Separation of Visceral and Subcutaneous Adiposity in In Vivo Microcomputed Tomographies of Mice. <i>Journal of Digital Imaging</i> , 2009, 22, 222-231.	2.9	24
103	Marrow Adiposity and Hematopoiesis in Aging and Obesity: Exercise as an Intervention. <i>Current Osteoporosis Reports</i> , 2018, 16, 105-115.	3.6	23
104	Cloning of a Novel cDNA Expressed during the Early Stages of Fracture Healing. <i>Biochemical and Biophysical Research Communications</i> , 1998, 249, 879-884.	2.1	21
105	The mechanical consequences of load bearing in the equine third metacarpal across speed and gait: the nonuniform distributions of normal strain, shear strain, and strain energy density. <i>FASEB Journal</i> , 2013, 27, 1887-1894.	0.5	21
106	Electromagnetic fields in bone repair and adaptation. <i>Radio Science</i> , 1995, 30, 233-244.	1.6	19
107	Differential Phosphorylation of Paxillin in Response to Surface-Bound Serum Proteins during Early Osteoblast Adhesion. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 355-363.	2.1	19
108	Insights from the conduct of a device trial in older persons: low magnitude mechanical stimulation for musculoskeletal health. <i>Clinical Trials</i> , 2010, 7, 354-367.	1.6	19

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109	Diminished satellite cells and elevated adipogenic gene expression in muscle as caused by ovariectomy are averted by low-magnitude mechanical signals. <i>Journal of Applied Physiology</i> , 2015, 119, 27-36.	2.5	19
110	Effects of anisotropy and material axis registration on computed stress and strain distributions in the Turkey ulna. <i>Journal of Biomechanics</i> , 1996, 29, 261-267.	2.1	18
111	Enhancement of neuromuscular dynamics and strength behavior using extremely low magnitude mechanical signals in mice. <i>Journal of Biomechanics</i> , 2014, 47, 162-167.	2.1	18
112	Incorporating Refractory Period in Mechanical Stimulation Mitigates Obesity-Induced Adipose Tissue Dysfunction in Adult Mice. <i>Obesity</i> , 2017, 25, 1745-1753.	3.0	18
113	The Efficacy of Low-intensity Vibration to Improve Bone Health in Patients with End-stage Renal Disease Is Highly Dependent on Compliance and Muscle Response. <i>Academic Radiology</i> , 2017, 24, 1332-1342.	2.5	16
114	Mechanical suppression of breast cancer cell invasion and paracrine signaling to osteoclasts requires nucleo-cytoskeletal connectivity. <i>Bone Research</i> , 2020, 8, 40.	11.4	16
115	Proline-rich transcript of the brain (prt1b) is a serum-responsive gene in osteoblasts and upregulated during adhesion. <i>Journal of Cellular Biochemistry</i> , 2002, 84, 301-308.	2.6	15
116	Exercise to Mend Aged-tissue Crosstalk in Bone Targeting Osteoporosis & Osteoarthritis. <i>Seminars in Cell and Developmental Biology</i> , 2022, 123, 22-35.	5.0	14
117	Quantitative ultrasound imaging monitoring progressive disuse osteopenia and mechanical stimulation mitigation in calcaneus region through a 90-day bed rest human study. <i>Journal of Orthopaedic Translation</i> , 2019, 18, 48-58.	3.9	13
118	Postural Stability in Obese Preoperative Bariatric Patients Using Static and Dynamic Evaluation. <i>Obesity Facts</i> , 2020, 13, 499-513.	3.4	12
119	Three-dimensional geometric and structural symmetry of the turkey ulna. <i>Journal of Orthopaedic Research</i> , 1995, 13, 690-699.	2.3	10
120	Osteoporosis. <i>Evolution, Medicine and Public Health</i> , 2015, 2015, 343-343.	2.5	10
121	Mechanical signals protect stem cell lineage selection, preserving the bone and muscle phenotypes in obesity. <i>Annals of the New York Academy of Sciences</i> , 2017, 1409, 33-50.	3.8	9
122	Gene expression patterns in bone after 4 days of hind-limb unloading in two inbred strains of mice. <i>Aviation, Space, and Environmental Medicine</i> , 2005, 76, 530-5.	0.5	9
123	Low-intensity vibration increases cartilage thickness in obese mice. <i>Journal of Orthopaedic Research</i> , 2018, 36, 751-759.	2.3	7
124	The Lipogenic Gene Spot 14 is Activated in Bone by Disuse yet Remains Unaffected by a Mechanical Signal Anabolic to the Skeleton. <i>Calcified Tissue International</i> , 2008, 82, 148-154.	3.1	4
125	MECHANOTRANSDUCTION AND ITS ROLE IN BONE ADAPTATION. , 2005, , 365-411.		2
126	Mechanical vibrations reduce the Intervertebral Disc swelling and muscle atrophy from Bed Rest. , 2007, , .		2

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127	Mechanisms of exercise effects on bone quantity and quality. , 2020, , 1759-1784.		2
128	Chapter 46. Exercise and the Prevention of Osteoporosis. , 0, , 227-231.		1
129	The effect of low-intensity whole-body vibration with or without high-intensity resistance and impact training on risk factors for proximal femur fragility fracture in postmenopausal women with low bone mass: study protocol for the VIBMOR randomized controlled trial. Trials, 2022, 23, 15.	1.6	1
130	High-Resolution Imaging of Organs and Tissues by in vivo Micro-Computed Tomography. , 2008, , 313-330.		0