

Janet Rubin

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,785
citations

101384

36
h-index

98622

67
g-index

76
all docs

76
docs citations

76
times ranked

5075
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular pathways mediating mechanical signaling in bone. <i>Gene</i> , 2006, 367, 1-16.	1.0	406
2	Mechanical signals as anabolic agents in bone. <i>Nature Reviews Rheumatology</i> , 2010, 6, 50-59.	3.5	368
3	Mechanical regulation of signaling pathways in bone. <i>Gene</i> , 2012, 503, 179-193.	1.0	334
4	Mechanical Strain Inhibits Adipogenesis in Mesenchymal Stem Cells by Stimulating a Durable β^2 -Catenin Signal. <i>Endocrinology</i> , 2008, 149, 6065-6075.	1.4	257
5	Effects of Iron Isomaltoside vs Ferric Carboxymaltose on Hypophosphatemia in Iron-Deficiency Anemia. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 432.	3.8	162
6	Epigenetic Plasticity Drives Adipogenic and Osteogenic Differentiation of Marrow-derived Mesenchymal Stem Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 17829-17847.	1.6	150
7	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.	0.9	140
8	Combating osteoporosis and obesity with exercise: leveraging cell mechanosensitivity. <i>Nature Reviews Endocrinology</i> , 2019, 15, 339-355.	4.3	140
9	β^2 -Catenin Levels Influence Rapid Mechanical Responses in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2008, 283, 29196-29205.	1.6	138
10	mTORC2 Regulates Mechanically Induced Cytoskeletal Reorganization and Lineage Selection in Marrow-Derived Mesenchymal Stem Cells. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 78-89.	3.1	134
11	Mechanical Loading Regulates NFATc1 and β^2 -Catenin Signaling through a GSK3 β Control Node. <i>Journal of Biological Chemistry</i> , 2009, 284, 34607-34617.	1.6	125
12	Bone marrow fat accumulation accelerated by high fat diet is suppressed by exercise. <i>Bone</i> , 2014, 64, 39-46.	1.4	124
13	Mechanical strain inhibits expression of osteoclast differentiation factor by murine stromal cells. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C1126-C1132.	2.1	123
14	Cell Mechanosensitivity to Extremely Low-Magnitude Signals Is Enabled by a LINCed Nucleus. <i>Stem Cells</i> , 2015, 33, 2063-2076.	1.4	122
15	Activation of Extracellular Signal-Regulated Kinase Is Involved in Mechanical Strain Inhibition of RANKL Expression in Bone Stromal Cells. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 1452-1460.	3.1	112
16	Intranuclear Actin Regulates Osteogenesis. <i>Stem Cells</i> , 2015, 33, 3065-3076.	1.4	100
17	Enucleated cells reveal differential roles of the nucleus in cell migration, polarity, and mechanotransduction. <i>Journal of Cell Biology</i> , 2018, 217, 895-914.	2.3	93
18	Mechanical Regulation of Glycogen Synthase Kinase 3 β (GSK3 β) in Mesenchymal Stem Cells Is Dependent on Akt Protein Serine 473 Phosphorylation via mTORC2 Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 39450-39456.	1.6	82

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19	Exercise Decreases Marrow Adipose Tissue Through β -Oxidation in Obese Running Mice. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1692-1702.	3.1	78
20	Mechanical activation of β -catenin regulates phenotype in adult murine marrow-derived mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1531-1538.	1.2	71
21	Mechanically Induced Focal Adhesion Assembly Amplifies Anti-Adipogenic Pathways in Mesenchymal Stem Cells. <i>Stem Cells</i> , 2011, 29, 1829-1836.	1.4	71
22	Caveolin-1 Knockout Mice Have Increased Bone Size and Stiffness. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1408-1418.	3.1	70
23	β -Catenin: A supporting role in the skeleton. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 545-553.	1.2	69
24	Mechanically activated fyn utilizes mTORC2 to regulate RhoA and adipogenesis in mesenchymal stem cells. <i>Stem Cells</i> , 2013, 31, 2528-2537.	1.4	64
25	Intranuclear Actin Structure Modulates Mesenchymal Stem Cell Differentiation. <i>Stem Cells</i> , 2017, 35, 1624-1635.	1.4	63
26	Response to mechanical strain in an immortalized pre-osteoblast cell is dependent on ERK1/2. <i>Journal of Cellular Physiology</i> , 2006, 207, 454-460.	2.0	62
27	Sun-mediated mechanical LINC between nucleus and cytoskeleton regulates β -catenin nuclear access. <i>Journal of Biomechanics</i> , 2018, 74, 32-40.	0.9	60
28	Indomethacin promotes adipogenesis of mesenchymal stem cells through a cyclooxygenase independent mechanism. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 1042-1050.	1.2	56
29	Vibration therapy. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2014, 21, 447-453.	1.2	54
30	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.	1.4	52
31	Gap Junctional Communication in Osteocytes Is Amplified by Low Intensity Vibrations In Vitro. <i>PLoS ONE</i> , 2014, 9, e90840.	1.1	49
32	Formation of osteoclast-like cells is suppressed by low frequency, low intensity electric fields. <i>Journal of Orthopaedic Research</i> , 1996, 14, 7-15.	1.2	48
33	Macrophage Colony Stimulating Factor Down-Regulates MCSF-Receptor Expression and Entry of Progenitors into the Osteoclast Lineage. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 1387-1395.	3.1	43
34	Osteocyte specific responses to soluble and mechanical stimuli in a stem cell derived culture model. <i>Scientific Reports</i> , 2015, 5, 11049.	1.6	42
35	β -Catenin Preserves the Stem State of Murine Bone Marrow Stromal Cells Through Activation of EZH2. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1149-1162.	3.1	42
36	Cell Mechanosensitivity Is Enabled by the LINC Nuclear Complex. <i>Current Molecular Biology Reports</i> , 2016, 2, 36-47.	0.8	41

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37	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.	1.4	38
38	Mechanical input restrains PPAR γ 2 expression and action to preserve mesenchymal stem cell multipotentiality. <i>Bone</i> , 2013, 52, 454-464.	1.4	38
39	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.	1.4	38
40	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.	3.1	36
41	Cytoskeletal Configuration Modulates Mechanically Induced Changes in Mesenchymal Stem Cell Osteogenesis, Morphology, and Stiffness. <i>Scientific Reports</i> , 2016, 6, 34791.	1.6	36
42	Concise Review: Plasma and Nuclear Membranes Convey Mechanical Information to Regulate Mesenchymal Stem Cell Lineage. <i>Stem Cells</i> , 2016, 34, 1455-1463.	1.4	32
43	Osteogenic Stimulation of Human Adipose-Derived Mesenchymal Stem Cells Using a Fungal Metabolite That Suppresses the Polycomb Group Protein EZH2. <i>Stem Cells Translational Medicine</i> , 2018, 7, 197-209.	1.6	32
44	LARG GEF and ARHGAP18 orchestrate RhoA activity to control mesenchymal stem cell lineage. <i>Bone</i> , 2018, 107, 172-180.	1.4	31
45	Persistently Elevated PTH After Parathyroidectomy at One Year: Experience in a Tertiary Referral Center. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 4473-4480.	1.8	30
46	Mechanical Strain Downregulates C/EBP β in MSC and Decreases Endoplasmic Reticulum Stress. <i>PLoS ONE</i> , 2012, 7, e51613.	1.1	29
47	Exercise Increases and Browns Muscle Lipid in High-Fat Diet-Fed Mice. <i>Frontiers in Endocrinology</i> , 2016, 7, 80.	1.5	26
48	Validation of Osteogenic Properties of Cytochalasin D by High-Resolution RNA-Sequencing in Mesenchymal Stem Cells Derived from Bone Marrow and Adipose Tissues. <i>Stem Cells and Development</i> , 2018, 27, 1136-1145.	1.1	24
49	Marrow Adiposity and Hematopoiesis in Aging and Obesity: Exercise as an Intervention. <i>Current Osteoporosis Reports</i> , 2018, 16, 105-115.	1.5	23
50	Exercise Degrades Bone in Caloric Restriction, Despite Suppression of Marrow Adipose Tissue (MAT). <i>Journal of Bone and Mineral Research</i> , 2020, 35, 106-115.	3.1	23
51	Gene regulation through dynamic actin control of nuclear structure. <i>Experimental Biology and Medicine</i> , 2019, 244, 1345-1353.	1.1	21
52	cAMP promotion of osteoclast-like cell development from mouse bone marrow cells requires a permissive action of 1,25-(OH)2D3. <i>Journal of Bone and Mineral Research</i> , 1992, 7, 611-617.	3.1	18
53	Incorporating Refractory Period in Mechanical Stimulation Mitigates Obesity-Induced Adipose Tissue Dysfunction in Adult Mice. <i>Obesity</i> , 2017, 25, 1745-1753.	1.5	18
54	Physical Signals May Affect Mesenchymal Stem Cell Differentiation via Epigenetic Controls. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 42-47.	1.6	17

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55	Regulation of Complement 5a Receptor Expression in U937 Cells by Phorbol Ester. <i>Journal of Leukocyte Biology</i> , 1991, 50, 502-508.	1.5	15
56	Ketoconazole and phorbol myristate acetate regulate osteoclast precursor fusion in primary murine marrow culture. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 1274-1280.	3.1	14
57	Exercise to Mend Aged-tissue Crosstalk in Bone Targeting Osteoporosis & Osteoarthritis. <i>Seminars in Cell and Developmental Biology</i> , 2022, 123, 22-35.	2.3	14
58	Knockdown of formin mDia2 alters lamin B1 levels and increases osteogenesis in stem cells. <i>Stem Cells</i> , 2020, 38, 102-117.	1.4	13
59	Low-Dose Tamoxifen Induces Significant Bone Formation in Mice. <i>JBMR Plus</i> , 2021, 5, e10450.	1.3	11
60	Lamin A/C Is Dispensable to Mechanical Repression of Adipogenesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6580.	1.8	10
61	Expression of C5a Anaphylatoxin Receptor in Monoblastic Cells Involves Facilitation of an Adenosine 3',5'-Monophosphate-Dependent Process*. <i>Endocrinology</i> , 1988, 123, 2424-2431.	1.4	9
62	Mechanically Induced Nuclear Shuttling of β -Catenin Requires Co-transfer of Actin. <i>Stem Cells</i> , 2022, 40, 423-434.	1.4	7
63	Stand UP!. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 2050-2053.	1.8	6
64	Actin up in the Nucleus: Regulation of Actin Structures Modulates Mesenchymal Stem Cell Differentiation. <i>Transactions of the American Clinical and Climatological Association</i> , 2017, 128, 180-192.	0.9	5
65	Architectural control of mesenchymal stem cell phenotype through nuclear actin. <i>Nucleus</i> , 2022, 13, 35-48.	0.6	5
66	Rib Fractures and Death from Deletion of Osteoblast β -catenin in Adult Mice Is Rescued by Corticosteroids. <i>PLoS ONE</i> , 2013, 8, e55757.	1.1	4
67	Mechanisms of exercise effects on bone quantity and quality. , 2020, , 1759-1784.		2
68	Exercise Increases Bone in SEIPIN Deficient Lipodystrophy, Despite Low Marrow Adiposity. <i>Frontiers in Endocrinology</i> , 2021, 12, 782194.	1.5	2
69	Prevention of Osteoporosis by Physical Signals. , 2013, , 517-535.		1
70	Lumbar Scoliosis in Postmenopausal Women Increases with Age but is not Associated with Osteoporosis. <i>Journal of the Endocrine Society</i> , 2021, 5, bvab018.	0.1	1
71	G protein-coupled receptor kinase 3 modulates mesenchymal stem cell proliferation and differentiation through sphingosine-1-phosphate receptor regulation. <i>Stem Cell Research and Therapy</i> , 2022, 13, 37.	2.4	1
72	Mechanisms of Exercise Effects on Bone Quantity and Quality. , 2008, , 1819-1837.		0