

# Nathan J Pavlos

## List of Publications by Year in descending order

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77  
papers

5,003  
citations

109137

35  
h-index

98622

67  
g-index

82  
all docs

82  
docs citations

82  
times ranked

8027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheumatoid arthritis: pathological mechanisms and modern pharmacologic therapies. <i>Bone Research</i> , 2018, 6, 15.	5.4	947
2	Subchondral bone in osteoarthritis: insight into risk factors and microstructural changes. <i>Arthritis Research and Therapy</i> , 2013, 15, 223.	1.6	563
3	Osteoclasts recycle via osteomorphs during RANKL-stimulated bone resorption. <i>Cell</i> , 2021, 184, 1330-1347.e13.	13.5	203
4	Quantitative Comparison of Glutamatergic and GABAergic Synaptic Vesicles Unveils Selectivity for Few Proteins Including MAL2, a Novel Synaptic Vesicle Protein. <i>Journal of Neuroscience</i> , 2010, 30, 2-12.	1.7	154
5	GPCR Signaling and Trafficking: The Long and Short of It. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 213-226.	3.1	154
6	The GTPase Rab26 links synaptic vesicles to the autophagy pathway. <i>ELife</i> , 2015, 4, e05597.	2.8	138
7	A molecular code for endosomal recycling of phosphorylated cargos by the SNX27-retromer complex. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 921-932.	3.6	131
8	V-ATPases in osteoclasts: Structure, function and potential inhibitors of bone resorption. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1422-1435.	1.2	125
9	Autologous Tenocyte Therapy for Experimental Achilles Tendinopathy in a Rabbit Model. <i>Tissue Engineering - Part A</i> , 2011, 17, 2037-2048.	1.6	103
10	<i>In vitro</i> Evaluation of Natural Marine Sponge Collagen as a Scaffold for Bone Tissue Engineering. <i>International Journal of Biological Sciences</i> , 2011, 7, 968-977.	2.6	103
11	EGFL6 Promotes Endothelial Cell Migration and Angiogenesis through the Activation of Extracellular Signal-regulated Kinase. <i>Journal of Biological Chemistry</i> , 2011, 286, 22035-22046.	1.6	95
12	Effects of Bafilomycin A1: An inhibitor of vacuolar H (+)-ATPases on endocytosis and apoptosis in RAW cells and RAW cell-derived osteoclasts. <i>Journal of Cellular Biochemistry</i> , 2003, 88, 1256-1264.	1.2	91
13	Myocyte Enhancer Factor 2 and Microphthalmia-associated Transcription Factor Cooperate with NFATc1 to Transactivate the V-ATPase d2 Promoter during RANKL-induced Osteoclastogenesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 14667-14676.	1.6	87
14	Quantitative Analysis of Synaptic Vesicle Rabs Uncovers Distinct Yet Overlapping Roles for Rab3a and Rab27b in Ca <sup>2+</sup> -Triggered Exocytosis. <i>Journal of Neuroscience</i> , 2010, 30, 13441-13453.	1.7	87
15	Rab3D Regulates a Novel Vesicular Trafficking Pathway That Is Required for Osteoclastic Bone Resorption. <i>Molecular and Cellular Biology</i> , 2005, 25, 5253-5269.	1.1	86
16	p62 Ubiquitin Binding-Associated Domain Mediated the Receptor Activator of Nuclear Factor- $\kappa$ B Ligand-Induced Osteoclast Formation. <i>American Journal of Pathology</i> , 2006, 169, 503-514.	1.9	70
17	M-CSF Potently Augments RANKL-Induced Resorption Activation in Mature Human Osteoclasts. <i>PLoS ONE</i> , 2011, 6, e21462.	1.1	66
18	Distinct yet overlapping roles of Rab GTPases on synaptic vesicles. <i>Small GTPases</i> , 2011, 2, 77-81.	0.7	66

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19	Caffeic acid phenethyl ester, an active component of honeybee propolis attenuates osteoclastogenesis and bone resorption via the suppression of RANKL-induced NF- $\kappa$ B and NFAT activity. <i>Journal of Cellular Physiology</i> , 2009, 221, 642-649.	2.0	65
20	<i>Staphylococcus aureus</i> Infects Osteoclasts and Replicates Intracellularly. <i>MBio</i> , 2019, 10, .	1.8	64
21	Fibrin sealant promotes migration and proliferation of human articular chondrocytes: possible involvement of thrombin and protease-activated receptors. <i>International Journal of Molecular Medicine</i> , 2006, 17, 551-8.	1.8	64
22	Proteasome inhibitors impair RANKL-induced NF- $\kappa$ B activity in osteoclast-like cells via disruption of p62, TRAF6, CYLD, and I $\kappa$ B $\beta$ signaling cascades. <i>Journal of Cellular Physiology</i> , 2009, 220, 450-459.	2.0	61
23	Prevention of Wear Particle-Induced Osteolysis by a Novel V-ATPase Inhibitor Saliphenylhalamide through Inhibition of Osteoclast Bone Resorption. <i>PLoS ONE</i> , 2012, 7, e34132.	1.1	61
24	Steroid-induced osteonecrosis of the femoral head reveals enhanced reactive oxygen species and hyperactive osteoclasts. <i>International Journal of Biological Sciences</i> , 2020, 16, 1888-1900.	2.6	58
25	PLEKHM1/DEF8/RAB7 complex regulates lysosome positioning and bone homeostasis. <i>JCI Insight</i> , 2016, 1, e86330.	2.3	57
26	Sorting nexin 27 couples PTHR trafficking to retromer for signal regulation in osteoblasts during bone growth. <i>Molecular Biology of the Cell</i> , 2016, 27, 1367-1382.	0.9	48
27	Cyanidin Chloride inhibits ovariectomy-induced osteoporosis by suppressing RANKL-mediated osteoclastogenesis and associated signaling pathways. <i>Journal of Cellular Physiology</i> , 2018, 233, 2502-2512.	2.0	48
28	Glucocorticoid impairs cell-cell communication by autophagy-mediated degradation of connexin 43 in osteocytes. <i>Oncotarget</i> , 2016, 7, 26966-26978.	0.8	48
29	Phosphorylation-regulated axonal dependent transport of syntaxin 1 is mediated by a Kinesin-1 adapter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5862-5867.	3.3	44
30	Membrane trafficking in osteoclasts and implications for osteoporosis. <i>Biochemical Society Transactions</i> , 2019, 47, 639-650.	1.6	44
31	Gene expression of vascular endothelial growth factor in giant cell tumors of bone. <i>Human Pathology</i> , 2000, 31, 804-812.	1.1	43
32	Expression Quantitative Trait Locus Study of Bone Mineral Density GWAS Variants in Human Osteoclasts. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1044-1051.	3.1	43
33	Rab GTPases: Emerging Oncogenes and Tumor Suppressive Regulators for the Editing of Survival Pathways in Cancer. <i>Cancers</i> , 2020, 12, 259.	1.7	43
34	LIS1 Regulates Osteoclast Formation and Function through Its Interactions with Dynein/Dynactin and Plekhh1. <i>PLoS ONE</i> , 2011, 6, e27285.	1.1	42
35	SC-514, a selective inhibitor of IKK $\beta$ attenuates RANKL-induced osteoclastogenesis and NF- $\kappa$ B activation. <i>Biochemical Pharmacology</i> , 2013, 86, 1775-1783.	2.0	42
36	Cytoplasmic Terminus of Vacuolar Type Proton Pump Accessory Subunit Ac45 Is Required for Proper Interaction with VO Domain Subunits and Efficient Osteoclastic Bone Resorption. <i>Journal of Biological Chemistry</i> , 2008, 283, 13194-13204.	1.6	41

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37	Mutations of Vasopressin Receptor 2 Including Novel L312S Have Differential Effects on Trafficking. <i>Molecular Endocrinology</i> , 2016, 30, 889-904.	3.7	39
38	Triptolide inhibits osteoclast formation, bone resorption, RANKL-mediated NF- $\kappa$ B activation and titanium particle-induced osteolysis in a mouse model. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 346-353.	1.6	37
39	Characterisation of genetic regulatory effects for osteoporosis risk variants in human osteoclasts. <i>Genome Biology</i> , 2020, 21, 80.	3.8	36
40	A highly sensitive prenylation assay reveals <i>in vivo</i> effects of bisphosphonate drug on the Rab prenylome of macrophages outside the skeleton. <i>Small GTPases</i> , 2015, 6, 202-211.	0.7	33
41	Influence of age and gender on microarchitecture and bone remodeling in subchondral bone of the osteoarthritic femoral head. <i>Bone</i> , 2015, 77, 91-97.	1.4	31
42	Alexidine Dihydrochloride Attenuates Osteoclast Formation and Bone Resorption and Protects Against LPS-Induced Osteolysis. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 560-572.	3.1	31
43	Tctex-1, a Novel Interaction Partner of Rab3D, Is Required for Osteoclastic Bone Resorption. <i>Molecular and Cellular Biology</i> , 2011, 31, 1551-1564.	1.1	30
44	Disruption of the dynein-dynactin complex unveils motor-specific functions in osteoclast formation and bone resorption. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 119-134.	3.1	29
45	Versatile Roles of V-ATPases Accessory Subunit Ac45 in Osteoclast Formation and Function. <i>PLoS ONE</i> , 2011, 6, e27155.	1.1	27
46	Identical subchondral bone microarchitecture pattern with increased bone resorption in rheumatoid arthritis as compared to osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 2083-2092.	0.6	26
47	Circulating Lipocalin 2 Levels Predict Fracture-Related Hospitalizations in Elderly Women: A Prospective Cohort Study. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 2078-2085.	3.1	26
48	A bioceramic with enhanced osteogenic properties to regulate the function of osteoblastic and osteoclastic cells for bone tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 035018.	1.7	25
49	Parathyroid Hormone-Related Protein Negatively Regulates Tumor Cell Dormancy Genes in a PTHR1/Cyclic AMP-Independent Manner. <i>Frontiers in Endocrinology</i> , 2018, 9, 241.	1.5	25
50	Osteal macrophages support osteoclast-mediated resorption and contribute to bone pathology in a postmenopausal osteoporosis mouse model. <i>Journal of Bone and Mineral Research</i> , 2021, 36, 2214-2228.	3.1	25
51	Choline Kinase $\hat{2}$ Mutant Mice Exhibit Reduced Phosphocholine, Elevated Osteoclast Activity, and Low Bone Mass. <i>Journal of Biological Chemistry</i> , 2015, 290, 1729-1742.	1.6	24
52	Thonzonium bromide inhibits RANKL-induced osteoclast formation and bone resorption in vitro and prevents LPS-induced bone loss in vivo. <i>Biochemical Pharmacology</i> , 2016, 104, 118-130.	2.0	24
53	Genetic regulatory mechanisms in human osteoclasts suggest a role for the STMP1 and DCSTAMP genes in Paget's disease of bone. <i>Scientific Reports</i> , 2019, 9, 1052.	1.6	23
54	Loss of Protein Kinase C- $\hat{1}$ Protects against LPS-Induced Osteolysis Owing to an Intrinsic Defect in Osteoclastic Bone Resorption. <i>PLoS ONE</i> , 2013, 8, e70815.	1.1	23

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55	Fibrin sealant promotes migration and proliferation of human articular chondrocytes: Possible involvement of thrombin and protease-activated receptors. <i>International Journal of Molecular Medicine</i> , 2006, 17, 551.	1.8	22
56	Collagen-Derived Biomaterials in Bone and Cartilage Repair. <i>Macromolecular Symposia</i> , 2007, 253, 179-185.	0.4	22
57	Evidence of reciprocal regulation between the high extracellular calcium and RANKL signal transduction pathways in RAW cell derived osteoclasts. <i>Journal of Cellular Physiology</i> , 2005, 202, 554-562.	2.0	21
58	Paclitaxel inhibits osteoclast formation and bone resorption via influencing mitotic cell cycle arrest and RANKL-induced activation of NF- $\kappa$ B and ERK. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 946-955.	1.2	20
59	Osteoblast-derived EGFL6 couples angiogenesis to osteogenesis during bone repair. <i>Theranostics</i> , 2021, 11, 9738-9751.	4.6	20
60	Membrane Transport Proteins in Osteoclasts: The Ins and Outs. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 644986.	1.8	19
61	The oncogene AAMDC links PI3K-AKT-mTOR signaling with metabolic reprogramming in estrogen receptor-positive breast cancer. <i>Nature Communications</i> , 2021, 12, 1920.	5.8	19
62	Evidence that human cartilage and chondrocytes do not express calcitonin receptor. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 450-457.	0.6	18
63	Mutations within the TNF-Like Core Domain of RANKL Impair Osteoclast Differentiation and Activation. <i>Molecular Endocrinology</i> , 2009, 23, 35-46.	3.7	18
64	Septins are critical regulators of osteoclastic bone resorption. <i>Scientific Reports</i> , 2018, 8, 13016.	1.6	15
65	A missense mutation sheds light on a novel structure-function relationship of RANKL. <i>Journal of Cellular Physiology</i> , 2021, 236, 2800-2816.	2.0	15
66	Natural Germacrene Sesquiterpenes Inhibit Osteoclast Formation, Bone Resorption, RANKL-Induced NF- $\kappa$ B Activation, and $\beta$ Casein Degradation. <i>International Journal of Molecular Sciences</i> , 2015, 16, 26599-26607.	1.8	13
67	Calmodulin interacts with Rab3D and modulates osteoclastic bone resorption. <i>Scientific Reports</i> , 2016, 6, 37963.	1.6	13
68	Perspective of the GEMSTONE Consortium on Current and Future Approaches to Functional Validation for Skeletal Genetic Disease Using Cellular, Molecular and Animal-Modeling Techniques. <i>Frontiers in Endocrinology</i> , 2021, 12, 731217.	1.5	12
69	Bafilomycin A1 Attenuates Osteoclast Acidification and Formation, Accompanied by Increased Levels of SQSTM1/p62 Protein. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 1464-1470.	1.2	9
70	Brief exposure to full length parathyroid hormone-related protein (PTHrP) causes persistent generation of cyclic AMP through an endocytosis-dependent mechanism. <i>Biochemical Pharmacology</i> , 2019, 169, 113627.	2.0	9
71	Disulfiram Attenuates Osteoclast Differentiation In Vitro: A Potential Antiresorptive Agent. <i>PLoS ONE</i> , 2015, 10, e0125696.	1.1	8
72	Cell Fusion and Fission Unveils Remarkable Insights into Osteoclast Plasticity. <i>Calcified Tissue International</i> , 2012, 91, 157-158.	1.5	6

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73	The molecular structure and function of sorting nexin 10 in skeletal disorders, cancers, and other pathological conditions. <i>Journal of Cellular Physiology</i> , 2021, 236, 4207-4215.	2.0	6
74	Long-term exposure of mice to 890 ppm atmospheric CO <sub>2</sub> alters growth trajectories and elicits hyperactive behaviours in young adulthood. <i>Journal of Physiology</i> , 2022, 600, 1439-1453.	1.3	5
75	Molecular cloning of the mouse homologue of Rab3c. <i>Journal of Molecular Endocrinology</i> , 2001, 27, 117-122.	1.1	4
76	The SQSTM1/p62 UBA domain regulates Ajuba localisation, degradation and NF- $\kappa$ B signalling function. <i>PLoS ONE</i> , 2021, 16, e0259556.	1.1	4
77	Functional Assessment of Calcium-Sensing Receptor Variants Confirms Familial Hypocalciuric Hypercalcemia. <i>Journal of the Endocrine Society</i> , 2022, 6, bvac025.	0.1	3