

Nathaniel A Dymont

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,178
citations

257450

24
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

2821
citing authors

#	ARTICLE	IF	CITATIONS
1	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. <i>ELife</i> , 2020, 9, .	6.0	191
2	What We Should Know Before Using Tissue Engineering Techniques to Repair Injured Tendons: A Developmental Biology Perspective. <i>Tissue Engineering - Part B: Reviews</i> , 2011, 17, 165-176.	4.8	143
3	Quiescent Bone Lining Cells Are a Major Source of Osteoblasts During Adulthood. <i>Stem Cells</i> , 2016, 34, 2930-2942.	3.2	142
4	Lineage Tracing of Resident Tendon Progenitor Cells during Growth and Natural Healing. <i>PLoS ONE</i> , 2014, 9, e96113.	2.5	137
5	The Paratenon Contributes to Scleraxis-Expressing Cells during Patellar Tendon Healing. <i>PLoS ONE</i> , 2013, 8, e59944.	2.5	124
6	Cell origin, volume and arrangement are drivers of articular cartilage formation, morphogenesis and response to injury in mouse limbs. <i>Developmental Biology</i> , 2017, 426, 56-68.	2.0	117
7	Bone marrow adipogenic lineage precursors promote osteoclastogenesis in bone remodeling and pathologic bone loss. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	101
8	Gdf5 progenitors give rise to fibrocartilage cells that mineralize via hedgehog signaling to form the zonal enthesis. <i>Developmental Biology</i> , 2015, 405, 96-107.	2.0	96
9	The use of mesenchymal stem cells in collagen-based scaffolds for tissue-engineered repair of tendons. <i>Nature Protocols</i> , 2010, 5, 849-863.	12.0	81
10	High-Throughput, Multi-Image Cryohistology of Mineralized Tissues. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	78
11	Cell and matrix response of temporomandibular cartilage to mechanical loading. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 335-344.	1.3	70
12	Scaffolds for Tendon and Ligament Repair and Regeneration. <i>Annals of Biomedical Engineering</i> , 2015, 43, 819-831.	2.5	69
13	Spatial and Temporal Expression of Molecular Markers and Cell Signals During Normal Development of the Mouse Patellar Tendon. <i>Tissue Engineering - Part A</i> , 2012, 18, 598-608.	3.1	60
14	Effect of cyclical forces on the periodontal ligament and alveolar bone remodeling during orthodontic tooth movement. <i>Angle Orthodontist</i> , 2014, 84, 297-303.	2.4	53
15	Î±SMA-Expressing Perivascular Cells Represent Dental Pulp Progenitors In Vivo. <i>Journal of Dental Research</i> , 2017, 96, 323-330.	5.2	52
16	Fibrin Gels Exhibit Improved Biological, Structural, and Mechanical Properties Compared with Collagen Gels in Cell-Based Tendon Tissue-Engineered Constructs. <i>Tissue Engineering - Part A</i> , 2015, 21, 438-450.	3.1	46
17	Functional tissue engineering of tendon: Establishing biological success criteria for improving tendon repair. <i>Journal of Biomechanics</i> , 2014, 47, 1941-1948.	2.1	44
18	The relationships among spatiotemporal collagen gene expression, histology, and biomechanics following full-length injury in the murine patellar tendon. <i>Journal of Orthopaedic Research</i> , 2012, 30, 28-36.	2.3	43

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19	Regenerative Biology of Tendon: Mechanisms for Renewal and Repair. <i>Current Molecular Biology Reports</i> , 2015, 1, 124-131.	1.6	43
20	Human Subacromial Bursal Cells Display Superior Engraftment Versus Bone Marrow Stromal Cells in Murine Tendon Repair. <i>American Journal of Sports Medicine</i> , 2018, 46, 3511-3520.	4.2	43
21	Murine supraspinatus tendon injury model to identify the cellular origins of rotator cuff healing. <i>Connective Tissue Research</i> , 2016, 57, 507-515.	2.3	35
22	Comparison of inbred mouse strains shows diverse phenotypic outcomes of intervertebral disc aging. <i>Aging Cell</i> , 2020, 19, e13148.	6.7	35
23	Ablating hedgehog signaling in tenocytes during development impairs biomechanics and matrix organization of the adult murine patellar tendon enthesis. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1142-1151.	2.3	33
24	Nuclear envelope wrinkling predicts mesenchymal progenitor cell mechano-response in 2D and 3D microenvironments. <i>Biomaterials</i> , 2021, 270, 120662.	11.4	33
25	Improved biomechanical and biological outcomes in the MRL/Mpj murine strain following a full-length patellar tendon injury. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1693-1703.	2.3	30
26	Cell Signaling in Tenocytes: Response to Load and Ligands in Health and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2016, 920, 79-95.	1.6	26
27	A brief history of tendon and ligament bioreactors: Impact and future prospects. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2318-2330.	2.3	25
28	Local transplantation is an effective method for cell delivery in the osteogenesis imperfecta murine model. <i>International Orthopaedics</i> , 2014, 38, 1955-1962.	1.9	20
29	Fixation stability dictates the differentiation pathway of periosteal progenitor cells in fracture repair. <i>Journal of Orthopaedic Research</i> , 2015, 33, 948-956.	2.3	19
30	Intravenously-injected gold nanoparticles (AuNPs) access intracerebral F98 rat gliomas better than AuNPs infused directly into the tumor site by convection enhanced delivery. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 3937-3948.	6.7	19
31	Ectopic mineralization of cartilage and collagen-rich tendons and ligaments in <i>Enpp1^{asj-2}</i> mice. <i>Oncotarget</i> , 2016, 7, 12000-12009.	1.8	17
32	The critical role of Hedgehog-responsive mesenchymal progenitors in meniscus development and injury repair. <i>ELife</i> , 2021, 10, .	6.0	14
33	Amplifying Bone Marrow Progenitors Expressing α -Smooth Muscle Actin Produce Zonal Insertion Sites During Tendon Bone Repair. <i>Journal of Orthopaedic Research</i> , 2020, 38, 105-116.	2.3	13
34	American Society for Bone and Mineral Research Orthopaedic Research Society Joint Task Force Report on Cell-Based Therapies. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 3-17.	2.8	11
35	Reticulocalbin 3 is involved in postnatal tendon development by regulating collagen fibrillogenesis and cellular maturation. <i>Scientific Reports</i> , 2021, 11, 10868.	3.3	11
36	Intrinsic and growth-mediated cell and matrix specialization during murine meniscus tissue assembly. <i>FASEB Journal</i> , 2021, 35, e21779.	0.5	11

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37	Cells from a GDF5 origin produce zonal tendonâ€”bone attachments following anterior cruciate ligament reconstruction. <i>Annals of the New York Academy of Sciences</i> , 2020, 1460, 57-67.	3.8	10
38	Type V collagen regulates the structure and biomechanics of TMJ condylar cartilage: A fibrous-hyaline hybrid. <i>Matrix Biology</i> , 2021, 102, 1-19.	3.6	10
39	Mesenchymal stem cell response to growth factor treatment and low oxygen tension in 3-dimensional construct environment. <i>Muscles, Ligaments and Tendons Journal</i> , 2014, 4, 46-51.	0.3	10
40	Biodistribution of gold nanoparticles in BBN-induced muscle-invasive bladder cancer in mice. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7937-7946.	6.7	9
41	Induced Knockdown of Decorin, Alone and in Tandem With Biglycan Knockdown, Directly Increases Aged Murine Patellar Tendon Viscoelastic Properties. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	9
42	Structural and biomechanical responses of osseous healing: a novel murine nonunion model. <i>Journal of Orthopaedics and Traumatology</i> , 2013, 14, 247-257.	2.3	8
43	Pegylated insulinâ€”like growth factorâ€”1 biotherapeutic delivery promotes rotator cuff regeneration in a rat model. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1356-1371.	4.0	8
44	American Society for Bone and Mineral Researchâ€”Orthopaedic Research Society Joint Task Force Report on Cellâ€”Based Therapies â€” Secondary Publication. <i>Journal of Orthopaedic Research</i> , 2020, 38, 485-502.	2.3	7
45	The LG/J murine strain exhibits near-normal tendon biomechanical properties following a full-length central patellar tendon defect. <i>Connective Tissue Research</i> , 2016, 57, 496-506.	2.3	6
46	Evolving Strategies in Mechanobiology to More Effectively Treat Damaged Musculoskeletal Tissues. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 020301.	1.3	5
47	Activation, development, and attenuation of modeling- and remodeling-based bone formation in adult rats. <i>Biomaterials</i> , 2021, 276, 121015.	11.4	4
48	Variable patterns of ectopic mineralization in <i>Enpp1</i> mice, a model for generalized arterial calcification of infancy. <i>Oncotarget</i> , 2016, 7, 83837-83842.	1.8	3
49	Biomechanical Comparison of Abdominal Wall Hernia Repair Materials. , 2008, , .		1
50	Comparative Histological and Biomechanical Effects of Prostaglandin-E2 and Bacterial Collagenase on the Rabbit Patellar Tendon. , 2008, , .		0
51	Effects of Tensile Stimulation on Gene Expression and In Vitro Stiffness of Murine Tissue Engineered Constructs. , 2010, , .		0