James E Dennis

List of Publications by Citations

78 papers	8,747 citations	43 h-index	81 g-index
81 ext. papers	9,383 ext. citations	4.6 avg, IF	6 L-index

#	Paper	IF	Citations
78	Mesenchymal stem cells as trophic mediators. *Journal of Cellular Biochemistry*, **2006**, 98, 1076-84	4.7	2261
77	The dynamic in vivo distribution of bone marrow-derived mesenchymal stem cells after infusion. *Cells Tissues Organs*, **2001**, 169, 12-20	2.1	759
76	Hyaluronic acid-based polymers as cell carriers for tissue-engineered repair of bone and cartilage. *Journal of Orthopaedic Research*, **1999**, 17, 205-13	3.8	331
75	A quadripotential mesenchymal progenitor cell isolated from the marrow of an adult mouse. *Journal of Bone and Mineral Research*, **1999**, 14, 700-9	6.3	325
74	Stimulatory effects of basic fibroblast growth factor and bone morphogenetic protein-2 on osteogenic differentiation of rat bone marrow-derived mesenchymal stem cells. *Journal of Bone and Mineral Research*, **1997**, 12, 1606-14	6.3	304
73	The STRO-1+ marrow cell population is multipotential. *Cells Tissues Organs*, **2002**, 170, 73-82	2.1	273
72	A chemically defined medium supports in vitro proliferation and maintains the osteochondral potential of rat marrow-derived mesenchymal stem cells. *Experimental Cell Research*, **1995**, 219, 211-22	4.2	264
71	Origin and differentiation of human and murine stroma. *Stem Cells*, **2002**, 20, 205-14	5.8	257
70	Tissue-engineered fabrication of an osteochondral composite graft using rat bone marrow-derived mesenchymal stem cells. *Tissue Engineering*, **2001**, 7, 363-71		241
69	Osteogenesis in marrow-derived mesenchymal cell porous ceramic composites transplanted subcutaneously: effect of fibronectin and laminin on cell retention and rate of osteogenic expression. *Cell Transplantation*, **1992**, 1, 23-32	4	241
68	Hyaluronan-based polymers in the treatment of osteochondral defects. *Journal of Orthopaedic Research*, **2000**, 18, 773-80	3.8	177
67	LacZ and interleukin-3 expression in vivo after retroviral transduction of marrow-derived human osteogenic mesenchymal progenitors. *Human Gene Therapy*, **1997**, 8, 1417-27	4.8	150
66	Treatment of osteochondral defects with autologous bone marrow in a hyaluronan-based delivery vehicle. *Tissue Engineering*, **2002**, 8, 333-47		150
65	Optimizing mesenchymal stem cell-based therapeutics. *Current Opinion in Biotechnology*, **2009**, 20, 531-6	11.4	141
64	Targeting improves MSC treatment of inflammatory bowel disease. *Molecular Therapy*, **2010**, 18, 1365-72	21.7	136
63	Osteochondrogenic potential of marrow mesenchymal progenitor cells exposed to TGF-beta 1 or PDGF-BB as assayed in vivo and in vitro. *Journal of Bone and Mineral Research*, **1996**, 11, 1264-73	6.3	132
62	Repair of osteochondral defect with tissue-engineered two-phase composite material of injectable calcium phosphate and hyaluronan sponge. *Tissue Engineering*, **2002**, 8, 827-37		129

61	Immunochemical and mechanical characterization of cartilage subtypes in rabbit. *Journal of Histochemistry and Cytochemistry*, **2002**, 50, 1049-58	3.4	128
60	Collagens of the chicken eggshell membranes. *Connective Tissue Research*, **1991**, 26, 37-45	3.3	120
59	Cartilage repair: past and future--lessons for regenerative medicine. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 792-810	5.6	116
58	One-step derivation of mesenchymal stem cell (MSC)-like cells from human pluripotent stem cells on a fibrillar collagen coating. *PLoS ONE*, **2012**, 7, e33225	3.7	102
57	Myogenic Expression of Mesenchymal Stem Cells within Myotubes of mdx Mice in Vitro and in Vivo. *Tissue Engineering*, **1995**, 1, 327-43		102
56	Imaging of mesenchymal stem cell transplant by bioluminescence and PET. *Journal of Nuclear Medicine*, **2007**, 48, 2011-20	8.9	91
55	Targeting mesenchymal stem cells to activated endothelial cells. *Biomaterials*, **2009**, 30, 3702-10	15.6	84
54	Clinical-scale expansion of a mixed population of bone-marrow-derived stem and progenitor cells for potential use in bone-tissue regeneration. *Stem Cells*, **2007**, 25, 2575-82	5.8	82
53	Microstructure of matrix and mineral components of eggshells from White Leghorn chickens (Gallus gallus). *Journal of Morphology*, **1996**, 228, 287-306	1.6	78
52	Synergistic actions of hematopoietic and mesenchymal stem/progenitor cells in vascularizing bioengineered tissues. *PLoS ONE*, **2008**, 3, e3922	3.7	77
51	Partial biochemical and immunochemical characterization of avian eggshell extracellular matrices. *Archives of Biochemistry and Biophysics*, **1992**, 298, 293-302	4.1	77
50	Tissue engineering of autologous cartilage grafts in three-dimensional in vitro macroaggregate culture system. *Tissue Engineering*, **2004**, 10, 1695-706		76
49	Differentiation potential of conditionally immortalized mesenchymal progenitor cells from adult marrow of a H-2Kb-tsA58 transgenic mouse. *Journal of Cellular Physiology*, **1996**, 167, 523-38	7	74
48	In vitro dexamethasone pretreatment enhances bone formation of human mesenchymal stem cells in vivo. *Journal of Orthopaedic Research*, **2009**, 27, 916-21	3.8	71
47	Targeted delivery of progenitor cells for cartilage repair. *Journal of Orthopaedic Research*, **2004**, 22, 735-41	3.8	69
46	In vivo osteogenesis assay: a rapid method for quantitative analysis. *Biomaterials*, **1998**, 19, 1323-8	15.6	63
45	The avian eggshell extracellular matrix as a model for biomineralization. *Connective Tissue Research*, **1996**, 35, 325-9	3.3	55
44	Cartilage tissue engineering for laryngotracheal reconstruction: comparison of chondrocytes from three anatomic locations in the rabbit. *Tissue Engineering*, **2007**, 13, 843-53		53

43	Enhanced chondrogenic differentiation of dental pulp stem cells using nanopatterned PEG-GelMA-HA hydrogels. *Tissue Engineering - Part A*, **2014**, 20, 2817-29	3.9	51
42	A simple method for stem cell labeling with fluorine 18. *Nuclear Medicine and Biology*, **2005**, 32, 701-5	2.1	50
41	Fabrication of a neotrachea using engineered cartilage. *Laryngoscope*, **2008**, 118, 593-8	3.6	48
40	Vascular smooth muscle differentiation of murine stroma: a sequential model. *Experimental Hematology*, **1999**, 27, 1782-95	3.1	48
39	Serial transplantation and long-term engraftment of intra-arterially delivered clonally derived mesenchymal stem cells to injured bone marrow. *Molecular Therapy*, **2014**, 22, 160-8	11.7	47
38	Development of a peptide-targeted, myocardial ischemia-homing, mesenchymal stem cell. *Journal of Drug Targeting*, **2012**, 20, 23-32	5.4	47
37	Dexamethasone inhibition of confluence-induced apoptosis in human mesenchymal stem cells. *Journal of Orthopaedic Research*, **2009**, 27, 216-21	3.8	45
36	The dynamics of compartmentalization of embryonic muscle by extracellular matrix molecules. *Developmental Biology*, **1991**, 147, 46-61	3.1	44
35	Scaffold-free tissue-engineered cartilage implants for laryngotracheal reconstruction. *Laryngoscope*, **2010**, 120, 612-7	3.6	43
34	Developmental-like bone regeneration by human embryonic stem cell-derived mesenchymal cells. *Tissue Engineering - Part A*, **2014**, 20, 365-77	3.9	41
33	Transcriptional profiling of human mesenchymal stem cells transduced with reporter genes for imaging. *Physiological Genomics*, **2009**, 37, 23-34	3.6	38
32	Imaging stem cell implant for cellular-based therapies. *Experimental Biology and Medicine*, **2008**, 233, 930-40	3.7	38
31	Hyaluronan-based scaffolds to tissue-engineer cartilage implants for laryngotracheal reconstruction. *Laryngoscope*, **2007**, 117, 1745-9	3.6	36
30	Tissue-engineered trachea for airway reconstruction. *Laryngoscope*, **2009**, 119, 2118-23	3.6	32
29	Mesenchymal stem cells: Progenitors, progeny, and pathways. *Journal of Bone and Mineral Metabolism*, **1996**, 14, 193-201	2.9	31
28	Methods for producing scaffold-free engineered cartilage sheets from auricular and articular chondrocyte cell sources and attachment to porous tantalum. *BioResearch Open Access*, **2012**, 1, 157-65	2.4	25
27	Low oxygen tension during incubation periods of chondrocyte expansion is sufficient to enhance postexpansion chondrogenesis. *Tissue Engineering - Part A*, **2010**, 16, 1585-93	3.9	23
26	Analysis of the developmental potential of conditionally immortal marrow-derived mesenchymal progenitor cells isolated from the H-2Kb-tsA58 transgenic mouse. *Connective Tissue Research*, **1996**, 35, 93-9	3.3	23

25	Alterations in sarcomere structure, collagen organization, mitochondrial activity, and protein metabolism in the avian low score normal muscle weakness. *Development Growth and Differentiation*, **1997**, 39, 563-70	3	22
24	Monosodium Urate and Tumor Necrosis Factor-Increase Apoptosis in Human Chondrocyte Cultures. *Rheumatology (Sunnyvale, Calif)*, **2012**, 2, 113		22
23	Cobalt protoporphyrin pretreatment protects human embryonic stem cell-derived cardiomyocytes from hypoxia/reoxygenation injury in vitro and increases graft size and vascularization in vivo. *Stem Cells Translational Medicine*, **2014**, 3, 734-44	6.9	20
22	Polarized release of enveloped viruses in the embryonic chick heart: demonstration of epithelial polarity in the presumptive myocardium. *Developmental Biology*, **1990**, 141, 164-72	3.1	20
21	Imaging early stage osteogenic differentiation of mesenchymal stem cells. *Journal of Orthopaedic Research*, **2013**, 31, 871-9	3.8	14
20	Scaffold-free cartilage subjected to frictional shear stress demonstrates damage by cracking and surface peeling. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 412-424	4.4	13
19	Sustained Wnt protein expression in chondral constructs from mesenchymal stem cells. *Journal of Cellular Physiology*, **2005**, 203, 6-14	7	13
18	Thyroxine Increases Collagen Type II Expression and Accumulation in Scaffold-Free Tissue-Engineered Articular Cartilage. *Tissue Engineering - Part A*, **2018**, 24, 369-381	3.9	11
17	Investigating a continuous shear strain function for depth-dependent properties of native and tissue engineering cartilage using pixel-size data. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 28, 62-70	4.1	11
16	Reduced bone loss in a murine model of postmenopausal osteoporosis lacking complement component 3. *Journal of Orthopaedic Research*, **2018**, 36, 118-128	3.8	11
15	Synoviocyte Derived-Extracellular Matrix Enhances Human Articular Chondrocyte Proliferation and Maintains Re-Differentiation Capacity at Both Low and Atmospheric Oxygen Tensions. *PLoS ONE*, **2015**, 10, e0129961	3.7	10
14	Endogenous PKI gamma limits the duration of the anti-apoptotic effects of PTH and beta-adrenergic agonists in osteoblasts. *Journal of Bone and Mineral Research*, **2007**, 22, 656-64	6.3	10
13	Tissue engineering of a composite trachea construct using autologous rabbit chondrocytes. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1383-e1391	4.4	9
12	Simple evaluation method for osteoinductive capacity of cells or scaffolds using ceramic cubes. *Tissue and Cell*, **2014**, 46, 372-8	2.7	8
11	Imaging stem cell differentiation for cell-based tissue repair. *Methods in Enzymology*, **2012**, 506, 247-63	1.7	8
10	Advances in mesenchymal stem cell biology. *Current Opinion in Orthopaedics*, **2004**, 15, 341-346		8
9	Transcriptome-Wide Analysis of Human Chondrocyte Expansion on Synoviocyte Matrix. *Cells*, **2019**, 8,	7.9	6
8	Disparate response of articular- and auricular-derived chondrocytes to oxygen tension. *Connective Tissue Research*, **2016**, 57, 319-33	3.3	5

7	Coefficient of Friction Patterns Can Identify Damage in Native and Engineered Cartilage Subjected to Frictional-Shear Stress. *Annals of Biomedical Engineering*, **2015**, 43, 2056-68	4.7	4
6	High-Throughput, Temporal and Dose Dependent, Effect of Vitamins and Minerals on Chondrogenesis. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 92	5.7	4
5	Rapid Detection of Shear-Induced Damage in Tissue-Engineered Cartilage Using Ultrasound. *Tissue Engineering - Part C: Methods*, **2018**, 24, 443-456	2.9	4
4	Route of delivery influences biodistribution of human bone marrow-derived mesenchymal stromal cells following experimental bone marrow transplantation. *Journal of Stem Cells and Regenerative Medicine*, **2015**, 11, 34-43	0.8	4
3	Physioxia Stimulates Extracellular Matrix Deposition and Increases Mechanical Properties of Human Chondrocyte-Derived Tissue-Engineered Cartilage. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 590743	5.8	4
2	Differentiation potential of conditionally immortalized mesenchymal progenitor cells from adult marrow of a H-2Kb-tsA58 transgenic mouse **1996**, 167, 523		4
1	Dental Pulp Cells with Multi-Potential for Differentiation to Odontoblast and Chondroblast. *Journal of Hard Tissue Biology*, **2003**, 12, 49-55	0.4	3