Carl A Gregory

List of Publications by Citations

58 papers	4,768 citations	29 h-index	64 g-index
64 ext. papers	5,312 ext. citations	6.2 avg, IF	5.48 L-index

#	Paper	IF	Citations
58	An Alizarin red-based assay of mineralization by adherent cells in culture: comparison with cetylpyridinium chloride extraction. *Analytical Biochemistry*, **2004**, 329, 77-84	3.1	1082
57	Mechanisms of mesenchymal stem/stromal cell function. *Stem Cell Research and Therapy*, **2016**, 7, 125	8.3	411
56	Internalized antigens must be removed to prepare hypoimmunogenic mesenchymal stem cells for cell and gene therapy. *Molecular Therapy*, **2004**, 9, 747-56	11.7	402
55	One strategy for cell and gene therapy: harnessing the power of adult stem cells to repair tissues. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100 Suppl 1, 11917-23	11.5	366
54	Non-hematopoietic bone marrow stem cells: molecular control of expansion and differentiation. *Experimental Cell Research*, **2005**, 306, 330-5	4.2	231
53	The Wnt signaling inhibitor dickkopf-1 is required for reentry into the cell cycle of human adult stem cells from bone marrow. *Journal of Biological Chemistry*, **2003**, 278, 28067-78	5.4	228
52	Preclinical assessment of the efficacy of mycograb, a human recombinant antibody against fungal HSP90. *Antimicrobial Agents and Chemotherapy*, **2003**, 47, 2208-16	5.9	206
51	A crosstalk between myeloma cells and marrow stromal cells stimulates production of DKK1 and interleukin-6: a potential role in the development of lytic bone disease and tumor progression in multiple myeloma. *Stem Cells*, **2006**, 24, 986-91	5.8	204
50	The CD34-like protein PODXL and alpha6-integrin (CD49f) identify early progenitor MSCs with increased clonogenicity and migration to infarcted heart in mice. *Blood*, **2009**, 113, 816-26	2.2	154
49	How Wnt signaling affects bone repair by mesenchymal stem cells from the bone marrow. *Annals of the New York Academy of Sciences*, **2005**, 1049, 97-106	6.5	119
48	MSCs derived from iPSCs with a modified protocol are tumor-tropic but have much less potential to promote tumors than bone marrow MSCs. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 530-5	11.5	104
47	Pharmaceutical modulation of canonical Wnt signaling in multipotent stromal cells for improved osteoinductive therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4147-52	11.5	96
46	Repeated intra-articular injection of allogeneic mesenchymal stem cells causes an adverse response compared to autologous cells in the equine model. *Stem Cell Research and Therapy*, **2017**, 8, 42	8.3	91
45	Human mesenchymal stem cell-derived matrices for enhanced osteoregeneration. *Science Translational Medicine*, **2012**, 4, 132ra55	17.5	84
44	Adult bone marrow stem/progenitor cells (MSCs) are preconditioned by microenvironmental "niches" in culture: a two-stage hypothesis for regulation of MSC fate. *Science Signaling*, **2005**, 2005, pe37	8.8	84
43	Widespread changes in transcriptome profile of human mesenchymal stem cells induced by two-dimensional nanosilicates. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E3905-E3913	11.5	76
42	Dkk-1-derived synthetic peptides and lithium chloride for the control and recovery of adult stem cells from bone marrow. *Journal of Biological Chemistry*, **2005**, 280, 2309-23	5.4	75

41	CD133 identifies a human bone marrow stem/progenitor cell sub-population with a repertoire of secreted factors that protect against stroke. *Molecular Therapy*, **2009**, 17, 1938-47	11.7	70
40	Enhanced engraftment of mesenchymal stem cells in a cutaneous wound model by culture in allogenic species-specific serum and administration in fibrin constructs. *Stem Cells*, **2006**, 24, 2232-43	5.8	61
39	A potential role for Dkk-1 in the pathogenesis of osteosarcoma predicts novel diagnostic and treatment strategies. *British Journal of Cancer*, **2007**, 97, 1552-9	8.7	59
38	Sox11 is expressed in early progenitor human multipotent stromal cells and decreases with extensive expansion of the cells. *Tissue Engineering - Part A*, **2010**, 16, 3385-94	3.9	47
37	An unexpected role for a Wnt-inhibitor: Dickkopf-1 triggers a novel cancer survival mechanism through modulation of aldehyde-dehydrogenase-1 activity. *Cell Death and Disease*, **2014**, 5, e1093	9.8	44
36	Comparison of the anti-inflammatory effects of induced pluripotent stem cell-derived and bone marrow-derived mesenchymal stromal cells in a murine model of corneal injury. *Cytotherapy*, **2017**, 19, 28-35	4.8	42
35	In-vitro characterization of canine multipotent stromal cells isolated from synovium, bone marrow, and adipose tissue: a donor-matched comparative study. *Stem Cell Research and Therapy*, **2017**, 8, 218	8.3	41
34	Multipotent Stromal Cells Are Activated to Reduce Apoptosis in Part by Upregulation and Secretion of Stanniocalcin-1. *Stem Cells*, **2009**, 27, 670-681	5.8	40
33	Assays of osteogenic differentiation by cultured human mesenchymal stem cells. *Methods in Molecular Biology*, **2011**, 698, 215-30	1.4	36
32	Bone regeneration with osteogenically enhanced mesenchymal stem cells and their extracellular matrix proteins. *Journal of Bone and Mineral Research*, **2015**, 30, 83-94	6.3	32
31	Pharmaceutical inhibition of glycogen synthetase kinase-3 reduces multiple myeloma-induced bone disease in a novel murine plasmacytoma xenograft model. *Blood*, **2011**, 117, 1641-51	2.2	32
30	Metaphyseal chondrodysplasia type Schmid mutations are predicted to occur in two distinct three-dimensional clusters within type X collagen NC1 domains that retain the ability to trimerize. *Journal of Biological Chemistry*, **1999**, 274, 3632-41	5.4	29
29	Leukemia inhibitory factor secretion is a predictor and indicator of early progenitor status in adult bone marrow stromal cells. *Tissue Engineering - Part A*, **2009**, 15, 33-44	3.9	21
28	Characterization of a pluripotent stem cell-derived matrix with powerful osteoregenerative capabilities. *Nature Communications*, **2020**, 11, 3025	17.4	15
27	Short Term Culture of Human Mesenchymal Stem Cells with Commercial Osteoconductive Carriers Provides Unique Insights into Biocompatibility. *Journal of Clinical Medicine*, **2013**, 2, 49-66	5.1	14
26	Potential of modulating Wnt signaling pathway toward the development of bone anabolic agent. *Current Molecular Pharmacology*, **2012**, 5, 164-73	3.7	14
25	Interplay between degradability and integrin signaling on mesenchymal stem cell function within poly(ethylene glycol) based microporous annealed particle hydrogels. *Acta Biomaterialia*, **2020**, 101, 227-236	10.8	14
24	Conditioning of 3D Printed Nanoengineered Ionic-Covalent Entanglement Scaffolds with iP-hMSCs Derived Matrix. *Advanced Healthcare Materials*, **2020**, 9, e1901580	10.1	12

23	An allograft generated from adult stem cells and their secreted products efficiently fuses vertebrae in immunocompromised athymic rats and inhibits local immune responses. *Spine Journal*, **2017**, 17, 418-430	4	12
22	Quantification of Escherichia coli genomic DNA contamination in recombinant protein preparations by polymerase chain reaction and affinity-based collection. *Analytical Biochemistry*, **2001**, 296, 114-21	3.1	12
21	Equal expression of typ X collagen mRNA fom mutant and wild type COL10A1 alleles in growth plate cartilage from a patient with metaphyseal chondrodysplasia type Schmid. *Journal of Medical Genetics*, **2000**, 37, 627-9	5.8	12
20	How stem cell composition in bone marrow aspirate relates to clinical outcomes when used for cervical spine fusion. *PLoS ONE*, **2018**, 13, e0203714	3.7	12
19	Theobromine Upregulates Osteogenesis by Human Mesenchymal Stem Cells In Vitro and Accelerates Bone Development in Rats. *Calcified Tissue International*, **2017**, 100, 298-310	3.9	10
18	The promise of canonical Wnt signaling modulators in enhancing bone repair. *Drug News and Perspectives*, **2006**, 19, 445-52		9
17	A simple critical-sized femoral defect model in mice. *Journal of Visualized Experiments*, **2015**,	1.6	8
16	Fundamentals of Culture and Characterization of Mesenchymal Stem/Progenitor Cells (MSCs) from Bone Marrow Stroma207-232		8
15	Scalable Production of a Multifunctional Protein (TSG-6) That Aggregates with Itself and the CHO Cells That Synthesize It. *PLoS ONE*, **2016**, 11, e0147553	3.7	8
14	Rapid Osteogenic Enhancement of Stem Cells in Human Bone Marrow Using a Glycogen-Synthease-Kinase-3-Beta Inhibitor Improves Osteogenic Efficacy In Vitro and In Vivo. *Stem Cells Translational Medicine*, **2018**, 7, 342-353	6.9	6
13	In vitro MSC function is related to clinical reaction in vivo. *Stem Cell Research and Therapy*, **2018**, 9, 295	8.3	6
12	Three-dimensional in vitro modeling of malignant bone disease recapitulates experimentally accessible mechanisms of osteoinhibition. *Cell Death and Disease*, **2018**, 9, 1161	9.8	5
11	Pharmaceutical induction of ApoE secretion by multipotent mesenchymal stromal cells (MSCs). *BMC Biotechnology*, **2008**, 8, 75	3.5	4
10	Mimicking the Organic and Inorganic Composition of Anabolic Bone Enhances Human Mesenchymal Stem Cell Osteoinduction and Scaffold Mechanical Properties. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 753	5.8	3
9	Preparation of osteogenic matrices from cultured cells. *Methods in Cell Biology*, **2020**, 156, 15-43	1.8	3
8	Optimizing In Vitro Osteogenesis in Canine Autologous and Induced Pluripotent Stem Cell-Derived Mesenchymal Stromal Cells with Dexamethasone and BMP-2. *Stem Cells and Development*, **2021**, 30, 214-226	4.4	3
7	Time-lapse microscopic observation of non-dividing cells in cultured human osteosarcoma MG-63 cell line. *Cell Cycle*, **2018**, 17, 174-181	4.7	3
6	A scalable system for generation of mesenchymal stem cells derived from induced pluripotent cells employing bioreactors and degradable microcarriers. *Stem Cells Translational Medicine*, **2021**, 10, 1650-1665	6.8	3

5	More progress defining the crosstalk between multiple myeloma and mesenchymal stem cells of the bone marrow. *Leukemia and Lymphoma*, **2007**, 48, 1896-7	1.9	1
4	Advances in myeloma therapy: breaking the cycle. *Blood*, **2007**, 109, 1798-1798	2.2	1
3	Automated mesenchymal stem cell segmentation and machine learning-based phenotype classification using morphometric and textural analysis. *Journal of Medical Imaging*, **2021**, 8, 014503	2.6	1
2	Dissociation of nanosilicates induces downstream endochondral differentiation gene expression program.. *Science Advances*, **2022**, 8, eabl9404	14.3	1
1	Canine Mesenchymal Stromal Cell-Mediated Bone Regeneration is Enhanced in the Presence of Sub-Therapeutic Concentrations of BMP-2 in a Murine Calvarial Defect Model. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 764703	5.8	