

# Carl A Gregory

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Dissociation of nanosilicates induces downstream endochondral differentiation gene expression program.. <i>Science Advances</i> , <b>2022</b> , 8, eabl9404	14.3	1
57	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. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 764703	5.8	
56	Automated mesenchymal stem cell segmentation and machine learning-based phenotype classification using morphometric and textural analysis. <i>Journal of Medical Imaging</i> , <b>2021</b> , 8, 014503	2.6	1
55	Optimizing In Vitro Osteogenesis in Canine Autologous and Induced Pluripotent Stem Cell-Derived Mesenchymal Stromal Cells with Dexamethasone and BMP-2. <i>Stem Cells and Development</i> , <b>2021</b> , 30, 214226	4.4	3
54	A scalable system for generation of mesenchymal stem cells derived from induced pluripotent cells employing bioreactors and degradable microcarriers. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 1650-1665	6.9	3
53	Characterization of a pluripotent stem cell-derived matrix with powerful osteoregenerative capabilities. <i>Nature Communications</i> , <b>2020</b> , 11, 3025	17.4	15
52	Conditioning of 3D Printed Nanoengineered Ionic-Covalent Entanglement Scaffolds with iP-hMSCs Derived Matrix. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901580	10.1	12
51	Interplay between degradability and integrin signaling on mesenchymal stem cell function within poly(ethylene glycol) based microporous annealed particle hydrogels. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 227-236	10.8	14
50	Mimicking the Organic and Inorganic Composition of Anabolic Bone Enhances Human Mesenchymal Stem Cell Osteoinduction and Scaffold Mechanical Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 753	5.8	3
49	Preparation of osteogenic matrices from cultured cells. <i>Methods in Cell Biology</i> , <b>2020</b> , 156, 15-43	1.8	3
48	Rapid Osteogenic Enhancement of Stem Cells in Human Bone Marrow Using a Glycogen-Synthase-Kinase-3-Beta Inhibitor Improves Osteogenic Efficacy In Vitro and In Vivo. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 342-353	6.9	6
47	Widespread changes in transcriptome profile of human mesenchymal stem cells induced by two-dimensional nanosilicates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3905-E3913	11.5	76
46	Time-lapse microscopic observation of non-dividing cells in cultured human osteosarcoma MG-63 cell line. <i>Cell Cycle</i> , <b>2018</b> , 17, 174-181	4.7	3
45	Three-dimensional in vitro modeling of malignant bone disease recapitulates experimentally accessible mechanisms of osteoinhibition. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 1161	9.8	5
44	In vitro MSC function is related to clinical reaction in vivo. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 295	8.3	6
43	How stem cell composition in bone marrow aspirate relates to clinical outcomes when used for cervical spine fusion. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203714	3.7	12
42	Repeated intra-articular injection of allogeneic mesenchymal stem cells causes an adverse response compared to autologous cells in the equine model. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 42	8.3	91

41	Theobromine Upregulates Osteogenesis by Human Mesenchymal Stem Cells In Vitro and Accelerates Bone Development in Rats. <i>Calcified Tissue International</i> , <b>2017</b> , 100, 298-310	3.9	10
40	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. <i>Cytotherapy</i> , <b>2017</b> , 19, 28-35	4.8	42
39	An allograft generated from adult stem cells and their secreted products efficiently fuses vertebrae in immunocompromised athymic rats and inhibits local immune responses. <i>Spine Journal</i> , <b>2017</b> , 17, 418-430	4	12
38	In-vitro characterization of canine multipotent stromal cells isolated from synovium, bone marrow, and adipose tissue: a donor-matched comparative study. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 218	8.3	41
37	Scalable Production of a Multifunctional Protein (TSG-6) That Aggregates with Itself and the CHO Cells That Synthesize It. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147553	3.7	8
36	Mechanisms of mesenchymal stem/stromal cell function. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 125	8.3	411
35	Bone regeneration with osteogenically enhanced mesenchymal stem cells and their extracellular matrix proteins. <i>Journal of Bone and Mineral Research</i> , <b>2015</b> , 30, 83-94	6.3	32
34	A simple critical-sized femoral defect model in mice. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	8
33	MSCs derived from iPSCs with a modified protocol are tumor-tropic but have much less potential to promote tumors than bone marrow MSCs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 530-5	11.5	104
32	An unexpected role for a Wnt-inhibitor: Dickkopf-1 triggers a novel cancer survival mechanism through modulation of aldehyde-dehydrogenase-1 activity. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1093	9.8	44
31	Short Term Culture of Human Mesenchymal Stem Cells with Commercial Osteoconductive Carriers Provides Unique Insights into Biocompatibility. <i>Journal of Clinical Medicine</i> , <b>2013</b> , 2, 49-66	5.1	14
30	Human mesenchymal stem cell-derived matrices for enhanced osteoregeneration. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 132ra55	17.5	84
29	Potential of modulating Wnt signaling pathway toward the development of bone anabolic agent. <i>Current Molecular Pharmacology</i> , <b>2012</b> , 5, 164-73	3.7	14
28	Assays of osteogenic differentiation by cultured human mesenchymal stem cells. <i>Methods in Molecular Biology</i> , <b>2011</b> , 698, 215-30	1.4	36
27	Pharmaceutical inhibition of glycogen synthetase kinase-3 reduces multiple myeloma-induced bone disease in a novel murine plasmacytoma xenograft model. <i>Blood</i> , <b>2011</b> , 117, 1641-51	2.2	32
26	Pharmaceutical modulation of canonical Wnt signaling in multipotent stromal cells for improved osteoinductive therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4147-52	11.5	96
25	Sox11 is expressed in early progenitor human multipotent stromal cells and decreases with extensive expansion of the cells. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 3385-94	3.9	47
24	Leukemia inhibitory factor secretion is a predictor and indicator of early progenitor status in adult bone marrow stromal cells. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 33-44	3.9	21

23	CD133 identifies a human bone marrow stem/progenitor cell sub-population with a repertoire of secreted factors that protect against stroke. <i>Molecular Therapy</i> , <b>2009</b> , 17, 1938-47	11.7	70
22	The CD34-like protein PODXL and alpha6-integrin (CD49f) identify early progenitor MSCs with increased clonogenicity and migration to infarcted heart in mice. <i>Blood</i> , <b>2009</b> , 113, 816-26	2.2	154
21	Multipotent Stromal Cells Are Activated to Reduce Apoptosis in Part by Upregulation and Secretion of Stanniocalcin-1. <i>Stem Cells</i> , <b>2009</b> , 27, 670-681	5.8	40
20	Pharmaceutical induction of ApoE secretion by multipotent mesenchymal stromal cells (MSCs). <i>BMC Biotechnology</i> , <b>2008</b> , 8, 75	3.5	4
19	More progress defining the crosstalk between multiple myeloma and mesenchymal stem cells of the bone marrow. <i>Leukemia and Lymphoma</i> , <b>2007</b> , 48, 1896-7	1.9	1
18	A potential role for Dkk-1 in the pathogenesis of osteosarcoma predicts novel diagnostic and treatment strategies. <i>British Journal of Cancer</i> , <b>2007</b> , 97, 1552-9	8.7	59
17	Advances in myeloma therapy: breaking the cycle. <i>Blood</i> , <b>2007</b> , 109, 1798-1798	2.2	1
16	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. <i>Stem Cells</i> , <b>2006</b> , 24, 986-91	5.8	204
15	Enhanced engraftment of mesenchymal stem cells in a cutaneous wound model by culture in allogenic species-specific serum and administration in fibrin constructs. <i>Stem Cells</i> , <b>2006</b> , 24, 2232-43	5.8	61
14	The promise of canonical Wnt signaling modulators in enhancing bone repair. <i>Drug News and Perspectives</i> , <b>2006</b> , 19, 445-52		9
13	Non-hematopoietic bone marrow stem cells: molecular control of expansion and differentiation. <i>Experimental Cell Research</i> , <b>2005</b> , 306, 330-5	4.2	231
12	Dkk-1-derived synthetic peptides and lithium chloride for the control and recovery of adult stem cells from bone marrow. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 2309-23	5.4	75
11	How Wnt signaling affects bone repair by mesenchymal stem cells from the bone marrow. <i>Annals of the New York Academy of Sciences</i> , <b>2005</b> , 1049, 97-106	6.5	119
10	Adult bone marrow stem/progenitor cells (MSCs) are preconditioned by microenvironmental "niches" in culture: a two-stage hypothesis for regulation of MSC fate. <i>Science Signaling</i> , <b>2005</b> , 2005, pe37	8.8	84
9	Internalized antigens must be removed to prepare hypoimmunogenic mesenchymal stem cells for cell and gene therapy. <i>Molecular Therapy</i> , <b>2004</b> , 9, 747-56	11.7	402
8	An Alizarin red-based assay of mineralization by adherent cells in culture: comparison with cetylpyridinium chloride extraction. <i>Analytical Biochemistry</i> , <b>2004</b> , 329, 77-84	3.1	1082
7	The Wnt signaling inhibitor dickkopf-1 is required for reentry into the cell cycle of human adult stem cells from bone marrow. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 28067-78	5.4	228
6	Preclinical assessment of the efficacy of mycograb, a human recombinant antibody against fungal HSP90. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2003</b> , 47, 2208-16	5.9	206

5	One strategy for cell and gene therapy: harnessing the power of adult stem cells to repair tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100 Suppl 1, 11917-23	115	366
4	Quantification of Escherichia coli genomic DNA contamination in recombinant protein preparations by polymerase chain reaction and affinity-based collection. <i>Analytical Biochemistry</i> , <b>2001</b> , 296, 114-21	3.1	12
3	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. <i>Journal of Medical Genetics</i> , <b>2000</b> , 37, 627-9	5.8	12
2	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. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 3632-41	5.4	29
1	Fundamentals of Culture and Characterization of Mesenchymal Stem/Progenitor Cells (MSCs) from Bone Marrow Stroma207-232		8