

J Mary Murphy

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

84 papers	11,190 citations	45 h-index	104 g-index
104 ext. papers	12,154 ext. citations	5.9 avg, IF	6.16 L-index

#	Paper	IF	Citations
84	GMP-Compliant Production of Autologous Adipose-Derived Stromal Cells in the NANT 001 Closed Automated Bioreactor.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 834267	5.8	1
83	Fungi populate deep-sea coral gardens as well as marine sediments in the Irish Atlantic Ocean. <i>Environmental Microbiology</i> , 2021 , 23, 4168-4184	5.2	4
82	Accessing depth-resolved high spatial frequency content from the optical coherence tomography signal. <i>Scientific Reports</i> , 2021 , 11, 17123	4.9	3
81	Contrast agents for photoacoustic imaging: a review of stem cell tracking. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 511	8.3	2
80	The Secretome Derived From Mesenchymal Stromal Cells Cultured in a Xeno-Free Medium Promotes Human Cartilage Recovery. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 90	5.8	11
79	Cytokine pre-activation of cryopreserved xenogeneic-free human mesenchymal stromal cells enhances resolution and repair following ventilator-induced lung injury potentially via a KGF-dependent mechanism. <i>Intensive Care Medicine Experimental</i> , 2020 , 8, 8	3.7	11
78	Mesenchymal Stem Cell Therapy for Osteoarthritis: The Critical Role of the Cell Secretome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 9	5.8	92
77	Survival/Adaptation of Bone Marrow-Derived Mesenchymal Stem Cells After Long-Term Starvation Through Selective Processes. <i>Stem Cells</i> , 2019 , 37, 813-827	5.8	20
76	Induced Pluripotent Stem Cell-Derived Mesenchymal Stromal Cells Are Functionally and Genetically Different From Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cells</i> , 2019 , 37, 754-765	5.8	29
75	Employing mesenchymal stem cells to support tumor-targeted delivery of extracellular vesicle (EV)-encapsulated microRNA-379. <i>Oncogene</i> , 2018 , 37, 2137-2149	9.2	86
74	Vascular Calcification: Is it rather a Stem/Progenitor Cells Driven Phenomenon?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 10	5.8	17
73	Interplay of Inflammatory Mediators with Epigenetics and Cartilage Modifications in Osteoarthritis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 22	5.8	34
72	Adipose stromal cells mediated switching of the pro-inflammatory profile of M1-like macrophages is facilitated by PGE2: in vitro evaluation. <i>Osteoarthritis and Cartilage</i> , 2017 , 25, 1161-1171	6.2	72
71	Generation of induced pluripotent stem cells (ARO-iPSC1-11) from a patient with autosomal recessive osteopetrosis harboring the c.212+1G>T mutation in SNX10 gene. <i>Stem Cell Research</i> , 2017 , 24, 51-54	1.6	6
70	Evaluation of the Early In Vivo Response of a Functionally Graded Macroporous Scaffold in an Osteochondral Defect in a Rabbit Model. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1832-44	4.7	10
69	Chondrocytes Derived From Mesenchymal Stromal Cells and Induced Pluripotent Cells of Patients With Familial Osteochondritis Dissecans Exhibit an Endoplasmic Reticulum Stress Response and Defective Matrix Assembly. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1171-81	6.9	22
68	Differentiation of Vascular Stem Cells Contributes to Ectopic Calcification of Atherosclerotic Plaque. <i>Stem Cells</i> , 2016 , 34, 913-23	5.8	28

67	vIL-10-overexpressing human MSCs modulate naïve and activated T lymphocytes following induction of collagenase-induced osteoarthritis. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 74	8.3	8
66	Modulation of osteogenic differentiation in mesenchymal stromal cells 2016 , 131-147		
65	Mesenchymal stem/stromal cell therapy 2016 , 426-440		2
64	Immune modulation to improve tissue engineering outcomes for cartilage repair in the osteoarthritic joint. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 55-66	7.9	36
63	Porous decellularized tissue engineered hypertrophic cartilage as a scaffold for large bone defect healing. <i>Acta Biomaterialia</i> , 2015 , 23, 82-90	10.8	47
62	Cellular chondroplasty: a new technology for joint regeneration. <i>Journal of Knee Surgery</i> , 2015 , 28, 45-50.	2.4	7
61	Pullulan: a new cytoadhesive for cell-mediated cartilage repair. <i>Stem Cell Research and Therapy</i> , 2015 , 6, 34	8.3	29
60	A novel collagen-nanohydroxyapatite microRNA-activated scaffold for tissue engineering applications capable of efficient delivery of both miR-mimics and antagomiRs to human mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2015 , 200, 42-51	11.7	69
59	Evaluation of Cartilage Repair by Mesenchymal Stem Cells Seeded on a PEOT/PBT Scaffold in an Osteochondral Defect. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2069-82	4.7	23
58	A chondromimetic microsphere for in situ spatially controlled chondrogenic differentiation of human mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2014 , 179, 42-51	11.7	29
57	Changes in immunological profile of allogeneic mesenchymal stem cells after differentiation: should we be concerned?. <i>Stem Cell Research and Therapy</i> , 2014 , 5, 99	8.3	52
56	Human osteoarthritic synovium impacts chondrogenic differentiation of mesenchymal stem cells via macrophage polarisation state. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1167-75	6.2	133
55	TNF α and IL-1 β influence the differentiation and migration of murine MSCs independently of the NF- κ B pathway. <i>Stem Cell Research and Therapy</i> , 2014 , 5, 104	8.3	50
54	Chondrogenic differentiation increases antidonor immune response to allogeneic mesenchymal stem cell transplantation. <i>Molecular Therapy</i> , 2014 , 22, 655-667	11.7	64
53	Chondrogenesis of mesenchymal stem cells in an osteochondral environment is mediated by the subchondral bone. <i>Tissue Engineering - Part A</i> , 2014 , 20, 23-33	3.9	45
52	Photothermal optical coherence tomography for depth-resolved imaging of mesenchymal stem cells via single wall carbon nanotubes 2014 ,		2
51	Mesenchymal stem cells in joint disease and repair. <i>Nature Reviews Rheumatology</i> , 2013 , 9, 584-94	8.1	260
50	The delayed addition of human mesenchymal stem cells to pre-formed endothelial cell networks results in functional vascularization of a collagen-glycosaminoglycan scaffold in vivo. <i>Acta Biomaterialia</i> , 2013 , 9, 9303-16	10.8	96

49	Impact of mesenchymal stem cell secreted PAI-1 on colon cancer cell migration and proliferation. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 435, 574-9	3.4	36
48	High levels of ephrinB2 over-expression increases the osteogenic differentiation of human mesenchymal stem cells and promotes enhanced cell mediated mineralisation in a polyethyleneimine-ephrinB2 gene-activated matrix. <i>Journal of Controlled Release</i> , 2013 , 165, 173-82	11.7	43
47	Design and performance of a small-animal imaging system using synthetic collimation. <i>Physics in Medicine and Biology</i> , 2013 , 58, 3397-412	3.8	14
46	A SPECT imager with synthetic collimation. <i>Proceedings of SPIE</i> , 2013 , 8853,	1.7	1
45	Allogeneic murine mesenchymal stem cells: migration to inflamed joints in vivo and amelioration of collagen induced arthritis when transduced to express CTLA4Ig. <i>Stem Cells and Development</i> , 2013 , 22, 3203-13	4.4	24
44	Topical administration of allogeneic mesenchymal stromal cells seeded in a collagen scaffold augments wound healing and increases angiogenesis in the diabetic rabbit ulcer. <i>Diabetes</i> , 2013 , 62, 2588-94	0.9	84
43	The electrical stimulation of carbon nanotubes to provide a cardiomimetic cue to MSCs. <i>Biomaterials</i> , 2012 , 33, 6132-9	15.6	163
42	Development of a thermoresponsive chitosan gel combined with human mesenchymal stem cells and desferrioxamine as a multimodal pro-angiogenic therapeutic for the treatment of critical limb ischaemia. <i>Journal of Controlled Release</i> , 2012 , 161, 73-80	11.7	60
41	Immunogenicity of allogeneic mesenchymal stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 2094-103	5.6	171
40	Genetic mismatch affects the immunosuppressive properties of mesenchymal stem cells in vitro and their ability to influence the course of collagen-induced arthritis. <i>Arthritis Research and Therapy</i> , 2012 , 14, R167	5.7	31
39	On the application of active learning and Gaussian processes in postcryopreservation cell membrane integrity experiments. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012 , 9, 846-56	3	3
38	Strategies for improved targeting of therapeutic cells: implications for tissue repair. <i>European Cells and Materials</i> , 2012 , 23, 310-8; discussion 318-9	4.3	39
37	Lentiviral vector mediated modification of mesenchymal stem cells & enhanced survival in an in vitro model of ischaemia. <i>Stem Cell Research and Therapy</i> , 2011 , 2, 12	8.3	74
36	Mesenchymal Stem Cell-mediated delivery of the sodium iodide symporter supports radionuclide imaging and treatment of breast cancer. <i>Stem Cells</i> , 2011 , 29, 1149-57	5.8	67
35	In vitro characterization of an electroactive carbon-nanotube-based nanofiber scaffold for tissue engineering. <i>Macromolecular Bioscience</i> , 2011 , 11, 1272-82	5.5	34
34	Mesenchymal stem cell inhibition of T-helper 17 cell- differentiation is triggered by cell-cell contact and mediated by prostaglandin E2 via the EP4 receptor. <i>European Journal of Immunology</i> , 2011 , 41, 2840-51	6.1	169
33	Mesenchymal chondroprogenitor cell origin and therapeutic potential. <i>Stem Cell Research and Therapy</i> , 2011 , 2, 8	8.3	55
32	Bolus delivery of mesenchymal stem cells to injured vasculature in the rabbit carotid artery produces a dysfunctional endothelium. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1657-65	3.9	5

31	Mesenchymal stem cells and osteoarthritis: remedy or accomplice?. <i>Human Gene Therapy</i> , 2010 , 21, 1239-40	4.5	52
30	Behavior of human mesenchymal stem cells in fibrin-based vascular tissue engineering constructs. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 649-57	4.7	28
29	Potential role of mesenchymal stem cells (MSCs) in the breast tumour microenvironment: stimulation of epithelial to mesenchymal transition (EMT). <i>Breast Cancer Research and Treatment</i> , 2010 , 124, 317-26	4.4	222
28	Enhanced lipoplex-mediated gene expression in mesenchymal stem cells using reiterated nuclear localization sequence peptides. <i>Journal of Gene Medicine</i> , 2010 , 12, 207-18	3.5	30
27	Type II collagen-hyaluronan hydrogel--a step towards a scaffold for intervertebral disc tissue engineering. <i>European Cells and Materials</i> , 2010 , 20, 134-48	4.3	102
26	A matrix reservoir for improved control of non-viral gene delivery. <i>Journal of Controlled Release</i> , 2009 , 136, 220-5	11.7	64
25	Stem cells are resistant to TRAIL receptor-mediated apoptosis. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 4409-14	5.6	38
24	Mesenchymal stem cell secretion of chemokines during differentiation into osteoblasts, and their potential role in mediating interactions with breast cancer cells. <i>International Journal of Cancer</i> , 2009 , 124, 326-32	7.5	102
23	Cell contact, prostaglandin E(2) and transforming growth factor beta 1 play non-redundant roles in human mesenchymal stem cell induction of CD4+CD25(High) forkhead box P3+ regulatory T cells. <i>Clinical and Experimental Immunology</i> , 2009 , 156, 149-60	6.2	527
22	Carbon nanotubes and mesenchymal stem cells: biocompatibility, proliferation and differentiation. <i>Nano Letters</i> , 2008 , 8, 2137-43	11.5	171
21	Response of mesenchymal stem cells to the biomechanical environment of the endothelium on a flexible tubular silicone substrate. <i>Biomaterials</i> , 2008 , 29, 1610-9	15.6	66
20	Metabolic flexibility permits mesenchymal stem cell survival in an ischemic environment. <i>Stem Cells</i> , 2008 , 26, 1325-36	5.8	149
19	Interferon-gamma does not break, but promotes the immunosuppressive capacity of adult human mesenchymal stem cells. <i>Clinical and Experimental Immunology</i> , 2007 , 149, 353-63	6.2	496
18	Monocyte chemotactic protein-1 secreted by primary breast tumors stimulates migration of mesenchymal stem cells. <i>Clinical Cancer Research</i> , 2007 , 13, 5020-7	12.9	350
17	Adeno-associated viral vector transduction of human mesenchymal stem cells. <i>European Cells and Materials</i> , 2007 , 13, 93-9; discussion 99	4.3	71
16	Gene transfer into rat mesenchymal stem cells: a comparative study of viral and nonviral vectors. <i>Stem Cells and Development</i> , 2006 , 15, 87-96	4.4	130
15	Mesenchymal stem cells avoid allogeneic rejection. <i>Journal of Inflammation</i> , 2005 , 2, 8	6.7	622
14	Mesenchymal Stem Cell Transplantation for Tissue Repair. <i>Seminars in Plastic Surgery</i> , 2005 , 19, 229-239	2	4

13	Immunogenicity of adult mesenchymal stem cells: lessons from the fetal allograft. <i>Stem Cells and Development</i> , 2005 , 14, 252-65	4.4	160
12	Mesenchymal stem cells: clinical applications and biological characterization. <i>International Journal of Biochemistry and Cell Biology</i> , 2004 , 36, 568-84	5.6	1300
11	Stem cell therapy in a caprine model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 2003 , 48, 3464-74		820
10	Chondrogenic differentiation of human mesenchymal stem cells within an alginate layer culture system. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2002 , 38, 457-66	2.6	131
9	Reduced chondrogenic and adipogenic activity of mesenchymal stem cells from patients with advanced osteoarthritis. <i>Arthritis and Rheumatism</i> , 2002 , 46, 704-13		408
8	Up-regulation and differential expression of the hyaluronan-binding protein TSG-6 in cartilage and synovium in rheumatoid arthritis and osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2001 , 9, 42-8	6.2	92
7	The SH-3 and SH-4 antibodies recognize distinct epitopes on CD73 from human mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 519-24	3.4	209
6	Chondrogenic differentiation of mesenchymal stem cells from bone marrow: differentiation-dependent gene expression of matrix components. <i>Experimental Cell Research</i> , 2001 , 268, 189-200	4.2	784
5	Mesenchymal stem cells as vehicles for gene delivery. <i>Clinical Orthopaedics and Related Research</i> , 2000 , S71-90	2.2	89
4	An in vivo model for load-modulated remodeling in the rabbit flexor tendon. <i>Journal of Orthopaedic Research</i> , 2000 , 18, 116-25	3.8	53
3	The monoclonal antibody SH-2, raised against human mesenchymal stem cells, recognizes an epitope on endoglin (CD105). <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 134-9	3.4	332
2	p21(cip1) rescues human mesenchymal stem cells from apoptosis induced by low-density culture. <i>Cell and Tissue Research</i> , 1998 , 293, 463-70	4.2	24
1	Chondrogenic differentiation of cultured human mesenchymal stem cells from marrow. <i>Tissue Engineering</i> , 1998 , 4, 415-28		1073