

Michael R Doran

List of Publications by Year in descending order

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63
papers

1,999
citations

201674

27
h-index

254184

43
g-index

68
all docs

68
docs citations

68
times ranked

3246
citing authors

#	ARTICLE	IF	CITATIONS
1	Collagenase treatment appears to improve cartilage tissue integration but damage to collagen networks is likely permanent. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142210742.	5.5	10
2	Inhibition of BMP signaling with LDN 193189 can influence bone marrow stromal cell fate but does not prevent hypertrophy during chondrogenesis. <i>Stem Cell Reports</i> , 2022, 17, 616-632.	4.8	15
3	Direct bone marrow injection of human bone marrow-derived stromal cells into mouse femurs results in greater prostate cancer PC-3 cell proliferation, but not specifically proliferation within the injected femurs. <i>BMC Cancer</i> , 2022, 22, 554.	2.6	0
4	A single day of TGF- β 1 exposure activates chondrogenic and hypertrophic differentiation pathways in bone marrow-derived stromal cells. <i>Communications Biology</i> , 2021, 4, 29.	4.4	38
5	The future of grant proposals is video. <i>Nature</i> , 2021, , .	27.8	1
6	Using the Microwell-mesh to culture microtissues in vitro and as a carrier to implant microtissues in vivo into mice. <i>Scientific Reports</i> , 2021, 11, 5118.	3.3	7
7	Human bone marrow-derived stromal cell behavior when injected directly into the bone marrow of NOD-scid-gamma mice pre-conditioned with sub-lethal irradiation. <i>Stem Cell Research and Therapy</i> , 2021, 12, 231.	5.5	2
8	Characterisation of ovine bone marrow-derived stromal cells (oBMSC) and evaluation of chondrogenically induced micro-pellets for cartilage tissue repair in vivo. <i>Stem Cell Research and Therapy</i> , 2021, 12, 26.	5.5	9
9	A survey of early-career researchers in Australia. <i>ELife</i> , 2021, 10, .	6.0	56
10	CD27, CD201, FLT3, CD48, and CD150 cell surface staining identifies long-term mouse hematopoietic stem cells in immunodeficient non-obese diabetic severe combined immune deficient-derived strains. <i>Haematologica</i> , 2020, 105, 71-82.	3.5	6
11	Integration of an ultra-strong poly(lactic-co-glycolic acid) (PLGA) knitted mesh into a thermally induced phase separation (TIPS) PLGA porous structure to yield a thin biphasic scaffold suitable for dermal tissue engineering. <i>Biofabrication</i> , 2020, 12, 015015.	7.1	24
12	Stromal cells cultivated from the choroid of human eyes display a mesenchymal stromal cell (MSC) phenotype and inhibit the proliferation of choroidal vascular endothelial cells in vitro. <i>Experimental Eye Research</i> , 2020, 200, 108201.	2.6	4
13	Intermittent parathyroid hormone (1α -34) supplementation of bone marrow stromal cell cultures may inhibit hypertrophy, but at the expense of chondrogenesis. <i>Stem Cell Research and Therapy</i> , 2020, 11, 321.	5.5	6
14	The Microwell-mesh: A high-throughput 3D prostate cancer spheroid and drug-testing platform. <i>Scientific Reports</i> , 2018, 8, 253.	3.3	71
15	Sheep as a model for evaluating mesenchymal stem/stromal cell (MSC)-based chondral defect repair. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 730-740.	1.3	34
16	Concise Review: Quantitative Detection and Modeling the In Vivo Kinetics of Therapeutic Mesenchymal Stem/Stromal Cells. <i>Stem Cells Translational Medicine</i> , 2018, 7, 78-86.	3.3	38
17	Plasma Polymerization of TEMPO Yields Coatings Containing Stable Nitroxide Radicals for Controlling Interactions with Prokaryotic and Eukaryotic Cells. <i>ACS Applied Nano Materials</i> , 2018, 1, 6587-6595.	5.0	12
18	Using high throughput microtissue culture to study the difference in prostate cancer cell behavior and drug response in 2D and 3D co-cultures. <i>BMC Cancer</i> , 2018, 18, 592.	2.6	21

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19	Bone marrow-derived stem/stromal cells (BMSC) 3D microtissues cultured in BMP-2 supplemented osteogenic induction medium are prone to adipogenesis. <i>Cell and Tissue Research</i> , 2018, 374, 541-553.	2.9	31
20	Modelling of the SDF-1/CXCR4 regulated <i>in vivo</i> homing of therapeutic mesenchymal stem/stromal cells in mice. <i>PeerJ</i> , 2018, 6, e6072.	2.0	57
21	Spheroid Coculture of Hematopoietic Stem/Progenitor Cells and Monolayer Expanded Mesenchymal Stem/Stromal Cells in Polydimethylsiloxane Microwells Modestly Improves <i>In Vitro</i> Hematopoietic Stem/Progenitor Cell Expansion. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 200-218.	2.1	43
22	HIF-1 α -stabilizing agent FG-4497 rescues human CD34 + cell mobilization in response to G-CSF in immunodeficient mice. <i>Experimental Hematology</i> , 2017, 52, 50-55.e6.	0.4	8
23	Caspofungin on ARGET-ATRP grafted PHEMA polymers: Enhancement and selectivity of prevention of attachment of <i>Candida albicans</i> . <i>Biointerphases</i> , 2017, 12, 05G602.	1.6	18
24	Direct bone marrow HSC transplantation enhances local engraftment at the expense of systemic engraftment in NSG mice. <i>Scientific Reports</i> , 2016, 6, 23886.	3.3	21
25	Isolation and Expansion of Mesenchymal Stem/Stromal Cells Derived from Human Placenta Tissue. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	56
26	How to survive as a whistle-blower. <i>Nature</i> , 2016, 532, 405-405.	27.8	4
27	Polydimethylsiloxane (PDMS) modulates CD38 expression, absorbs retinoic acid and may perturb retinoid signalling. <i>Lab on A Chip</i> , 2016, 16, 1473-1483.	6.0	15
28	The Rapid Manufacture of Uniform Composite Multicellular-Biomaterial Micropellets, Their Assembly into Macroscopic Organized Tissues, and Potential Applications in Cartilage Tissue Engineering. <i>PLoS ONE</i> , 2015, 10, e0122250.	2.5	12
29	Packed Bed Bioreactor for the Isolation and Expansion of Placental-Derived Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2015, 10, e0144941.	2.5	27
30	The microwell-mesh: A novel device and protocol for the high throughput manufacturing of cartilage microtissues. <i>Biomaterials</i> , 2015, 62, 1-12.	11.4	69
31	High-throughput bone and cartilage micropellet manufacture, followed by assembly of micropellets into biphasic osteochondral tissue. <i>Cell and Tissue Research</i> , 2015, 361, 755-768.	2.9	32
32	Nitric oxide releasing plasma polymer coating with bacteriostatic properties and no cytotoxic side effects. <i>Chemical Communications</i> , 2015, 51, 7058-7060.	4.1	37
33	Use multimedia in grant applications. <i>Nature</i> , 2014, 505, 291-291.	27.8	2
34	Nanohybrids of silver particles on clay platelets delaminate <i>Pseudomonas</i> biofilms. <i>Nanomedicine</i> , 2014, 9, 1019-1033.	3.3	1
35	Plasma polymerization of 1,1,1-trichloroethane yields a coating with robust antibacterial surface properties. <i>RSC Advances</i> , 2014, 4, 27604-27606.	3.6	17
36	Treating the whole not the hole: necessary coupling of technologies for diabetic foot ulcer treatment. <i>Trends in Molecular Medicine</i> , 2014, 20, 137-142.	6.7	55

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37	Multimedia: a necessary step in the evolution of research funding applications. Trends in Biochemical Sciences, 2014, 39, 151-153.	7.5	4
38	3D Cultures of Prostate Cancer Cells Cultured in a Novel High-Throughput Culture Platform Are More Resistant to Chemotherapeutics Compared to Cells Cultured in Monolayer. PLoS ONE, 2014, 9, e111029.	2.5	79
39	Mesenchymal Stem Cell Therapies for Bone and Tendon Conditions. , 2013, , 117-144.		1
40	Mesenchymal Stromal Cells and the Repair of Cartilage Tissue. , 2013, , 145-160.		0
41	Do RNA viruses require genome cyclisation for replication?. Trends in Biochemical Sciences, 2013, 38, 350-355.	7.5	9
42	A duty of care. Trends in Biochemical Sciences, 2013, 38, 1-2.	7.5	4
43	Engraftment Outcomes after HPC Co-Culture with Mesenchymal Stromal Cells and Osteoblasts. Journal of Clinical Medicine, 2013, 2, 115-135.	2.4	3
44	The Interplay between Chondrocyte Redifferentiation Pellet Size and Oxygen Concentration. PLoS ONE, 2013, 8, e58865.	2.5	65
45	In Vitro Assessment of Migratory Behavior of Two Cell Populations in a Simple Multichannel Microdevice. Processes, 2013, 1, 349-359.	2.8	2
46	Bioreactor for Blood Product Production. Cell Transplantation, 2012, 21, 1235-1244.	2.5	6
47	Micromarrowsâ€™ Three-Dimensional Coculture of Hematopoietic Stem Cells and Mesenchymal Stromal Cells. Tissue Engineering - Part C: Methods, 2012, 18, 319-328.	2.1	53
48	3D mesenchymal stem/stromal cell osteogenesis and autocrine signalling. Biochemical and Biophysical Research Communications, 2012, 419, 142-147.	2.1	66
49	Closed system isolation and scalable expansion of human placental mesenchymal stem cells. Biotechnology and Bioengineering, 2012, 109, 1817-1826.	3.3	101
50	The rationale for using microscopic units of a donor matrix in cartilage defect repair. Cell and Tissue Research, 2012, 347, 643-648.	2.9	25
51	Neural differentiation of mouse embryonic stem cells on conductive nanofiber scaffolds. Biotechnology Letters, 2012, 34, 1357-1365.	2.2	70
52	Enhanced Chondrogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells in Low Oxygen Environment Micropellet Cultures. Cell Transplantation, 2010, 19, 29-42.	2.5	197
53	Defined high protein content surfaces for stem cell culture. Biomaterials, 2010, 31, 5137-5142.	11.4	35
54	Long term culture of human embryonic stem cells on recombinant vitronectin in ascorbate free media. Biomaterials, 2010, 31, 8281-8288.	11.4	97

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55	Membrane Bioreactors Enhance Microenvironmental Conditioning and Tissue Development. Tissue Engineering - Part C: Methods, 2010, 16, 407-415.	2.1	7
56	The ascorbic acid paradox. Biochemical and Biophysical Research Communications, 2010, 400, 466-470.	2.1	29
57	Controlled presentation of recombinant proteins via a zinc-binding peptide-linker in two and three dimensional formats. Biomaterials, 2009, 30, 6614-6620.	11.4	11
58	Surface-bound stem cell factor and the promotion of hematopoietic cell expansion. Biomaterials, 2009, 30, 4047-4052.	11.4	43
59	Nanoscale presentation of cell adhesive molecules via block copolymer self-assembly. Biomaterials, 2009, 30, 4732-4737.	11.4	56
60	A novel multishear microdevice for studying cell mechanics. Lab on A Chip, 2009, 9, 1897.	6.0	102
61	A cell migration device that maintains a defined surface with no cellular damage during wound edge generation. Lab on A Chip, 2009, 9, 2364.	6.0	43
62	Molecular dynamics studies of the effects of branching characteristics on the crystalline structure of polyethylene. Journal of Chemical Physics, 2001, 115, 2827-2830.	3.0	18
63	Can video improve grant review quality and lead to more reliable ranking?. Research Ideas and Outcomes, 0, 3, e11931.	1.0	1