Michael R Doran

List of Publications by Year
in descending order

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	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
2	A novel multishear microdevice for studying cell mechanics. Lab on A Chip, 2009, 9, 1897.	6.0	102
3	Closed system isolation and scalable expansion of human placental mesenchymal stem cells. Biotechnology and Bioengineering, 2012, 109, 1817-1826.	3.3	101
4	Long term culture of human embryonic stem cells on recombinant vitronectin in ascorbate free media. Biomaterials, 2010, 31, 8281-8288.	11.4	97
5	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
6	The Microwell-mesh: A high-throughput 3D prostate cancer spheroid and drug-testing platform. Scientific Reports, 2018, 8, 253.	3.3	71
7	Neural differentiation of mouse embryonic stem cells on conductive nanofiber scaffolds. Biotechnology Letters, 2012, 34, 1357-1365.	2.2	70
8	The microwell-mesh: A novel device and protocol for the high throughput manufacturing of cartilage microtissues. Biomaterials, 2015, 62, 1-12.	11.4	69
9	3D mesenchymal stem/stromal cell osteogenesis and autocrine signalling. Biochemical and Biophysical Research Communications, 2012, 419, 142-147.	2.1	66
10	The Interplay between Chondrocyte Redifferentiation Pellet Size and Oxygen Concentration. PLoS ONE, 2013, 8, e58865.	2.5	65
11	Modelling of the SDF-1/CXCR4 regulated in vivo homing of therapeutic mesenchymal stem/stromal cells in mice. PeerJ, 2018, 6, e6072.	2.0	57
12	Nanoscale presentation of cell adhesive molecules via block copolymer self-assembly. Biomaterials, 2009, 30, 4732-4737.	11.4	56
13	Isolation and Expansion of Mesenchymal Stem/Stromal Cells Derived from Human Placenta Tissue. Journal of Visualized Experiments, 2016, , .	0.3	56
14	A survey of early-career researchers in Australia. ELife, 2021, 10, .	6.0	56
15	Treating the whole not the hole: necessary coupling of technologies for diabetic foot ulcer treatment. Trends in Molecular Medicine, 2014, 20, 137-142.	6.7	55
16	Micromarrowsâ€"Three-Dimensional Coculture of Hematopoietic Stem Cells and Mesenchymal Stromal Cells. Tissue Engineering - Part C: Methods, 2012, 18, 319-328.	2.1	53
17	Surface-bound stem cell factor and the promotion of hematopoietic cell expansion. Biomaterials, 2009, 30, 4047-4052.	11.4	43
18	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

#	Article	IF	Citations
19	Spheroid Coculture of Hematopoietic Stem/Progenitor Cells and Monolayer Expanded Mesenchymal Stem/Stromal Cells in Polydimethylsiloxane Microwells Modestly ImprovesIn VitroHematopoietic Stem/Progenitor Cell Expansion. Tissue Engineering - Part C: Methods, 2017, 23, 200-218.	2.1	43
20	Concise Review: Quantitative Detection and Modeling the In Vivo Kinetics of Therapeutic Mesenchymal Stem/Stromal Cells. Stem Cells Translational Medicine, 2018, 7, 78-86.	3.3	38
21	A single day of TGF-Î²1 exposure activates chondrogenic and hypertrophic differentiation pathways in bone marrow-derived stromal cells. Communications Biology, 2021, 4, 29.	4.4	38
22	Nitric oxide releasing plasma polymer coating with bacteriostatic properties and no cytotoxic side effects. Chemical Communications, 2015, 51, 7058-7060.	4.1	37
23	Defined high protein content surfaces for stem cell culture. Biomaterials, 2010, 31, 5137-5142.	11.4	35
24	Sheep as a model for evaluating mesenchymal stem/stromal cell (MSC)-based chondral defect repair. Osteoarthritis and Cartilage, 2018, 26, 730-740.	1.3	34
25	High-throughput bone and cartilage micropellet manufacture, followed by assembly of micropellets into biphasic osteochondral tissue. Cell and Tissue Research, 2015, 361, 755-768.	2.9	32
26	Bone marrow-derived stem/stromal cells (BMSC) 3D microtissues cultured in BMP-2 supplemented osteogenic induction medium are prone to adipogenesis. Cell and Tissue Research, 2018, 374, 541-553.	2.9	31
27	The ascorbic acid paradox. Biochemical and Biophysical Research Communications, 2010, 400, 466-470.	2.1	29
28	Packed Bed Bioreactor for the Isolation and Expansion of Placental-Derived Mesenchymal Stromal Cells. PLoS ONE, 2015, 10, e0144941.	2.5	27
29	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
30	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. Biofabrication, 2020, 12, 015015.	7.1	24
31	Direct bone marrow HSC transplantation enhances local engraftment at the expense of systemic engraftment in NSG mice. Scientific Reports, 2016, 6, 23886.	3.3	21
32	Using high throughput microtissue culture to study the difference in prostate cancer cell behavior and drug response in 2D and 3D co-cultures. BMC Cancer, 2018, 18, 592.	2.6	21
33	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
34	Caspofungin on ARGET-ATRP grafted PHEMA polymers: Enhancement and selectivity of prevention of attachment of Candida albicans. Biointerphases, 2017, 12, 05G602.	1.6	18
35	Plasma polymerization of 1,1,1-trichloroethane yields a coating with robust antibacterial surface properties. RSC Advances, 2014, 4, 27604-27606.	3.6	17
36	Polydimethylsiloxane (PDMS) modulates CD38 expression, absorbs retinoic acid and may perturb retinoid signalling. Lab on A Chip, 2016, 16, 1473-1483.	6.0	15

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37	Inhibition of BMP signaling with LDN 193189 can influence bone marrow stromal cell fate but does not prevent hypertrophy during chondrogenesis. Stem Cell Reports, 2022, 17, 616-632.	4.8	15
38	The Rapid Manufacture of Uniform Composite Multicellular-Biomaterial Micropellets, Their Assembly into Macroscopic Organized Tissues, and Potential Applications in Cartilage Tissue Engineering. PLoS ONE, 2015, 10, e0122250.	2.5	12
39	Plasma Polymerization of TEMPO Yields Coatings Containing Stable Nitroxide Radicals for Controlling Interactions with Prokaryotic and Eukaryotic Cells. ACS Applied Nano Materials, 2018, 1, 6587-6595.	5.0	12
40	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
41	Collagenase treatment appears to improve cartilage tissue integration but damage to collagen networks is likely permanent. Journal of Tissue Engineering, 2022, 13, 204173142210742.	5.5	10
42	Do RNA viruses require genome cyclisation for replication?. Trends in Biochemical Sciences, 2013, 38, 350-355.	7.5	9
43	Characterisation of ovine bone marrow-derived stromal cells (oBMSC) and evaluation of chondrogenically induced micro-pellets for cartilage tissue repair in vivo. Stem Cell Research and Therapy, 2021, 12, 26.	5.5	9
44	HIF-1Î±-stabilizing agent FG-4497 rescues human CD34 + cell mobilization inÂresponse to G-CSF in immunodeficient mice. Experimental Hematology, 2017, 52, 50-55.e6.	0.4	8
45	Membrane Bioreactors Enhance Microenvironmental Conditioning and Tissue Development. Tissue Engineering - Part C: Methods, 2010, 16, 407-415.	2.1	7
46	Using the Microwell-mesh to culture microtissues in vitro and as a carrier to implant microtissues in vivo into mice. Scientific Reports, 2021, 11, 5118.	3.3	7
47	Bioreactor for Blood Product Production. Cell Transplantation, 2012, 21, 1235-1244.	2.5	6
48	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. Haematologica, 2020, 105, 71-82.	3.5	6
49	Intermittent parathyroid hormone (1â€“34) supplementation of bone marrow stromal cell cultures may inhibit hypertrophy, but at the expense of chondrogenesis. Stem Cell Research and Therapy, 2020, 11, 321.	5.5	6
50	A duty of care. Trends in Biochemical Sciences, 2013, 38, 1-2.	7.5	4
51	Multimedia: a necessary step in the evolution of research funding applications. Trends in Biochemical Sciences, 2014, 39, 151-153.	7.5	4
52	How to survive as a whistle-blower. Nature, 2016, 532, 405-405.	27.8	4
53	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. Experimental Eye Research, 2020, 200, 108201.	2.6	4
54	Engraftment Outcomes after HPC Co-Culture with Mesenchymal Stromal Cells and Osteoblasts. Journal of Clinical Medicine, 2013, 2, 115-135.	2.4	3

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55	In Vitro Assessment of Migratory Behavior of Two Cell Populations in a Simple Multichannel Microdevice. Processes, 2013, 1, 349-359.	2.8	2
56	Use multimedia in grant applications. Nature, 2014, 505, 291-291.	27.8	2
57	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. Stem Cell Research and Therapy, 2021, 12, 231.	5.5	2
58	Mesenchymal Stem Cell Therapies for Bone and Tendon Conditions. , 2013, , 117-144.		1
59	Nanohybrids of silver particles on clay platelets delaminatePseudomonasbiofilms. Nanomedicine, 2014, 9, 1019-1033.	3.3	1
60	The future of grant proposals is video. Nature, 2021, , .	27.8	1
61	Can video improve grant review quality and lead to more reliable ranking?. Research Ideas and Outcomes, 0, 3, e11931.	1.0	1
62	Mesenchymal Stromal Cells and the Repair of Cartilage Tissue. , 2013, , 145-160.		0
63	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. BMC Cancer, 2022, 22, 554.	2.6	0