

Patricia Murray

List of Publications by Year in descending order

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77
papers

3,116
citations

172207

29
h-index

168136

53
g-index

89
all docs

89
docs citations

89
times ranked

4915
citing authors

#	ARTICLE	IF	CITATIONS
1	Absence of Basement Membranes after Targeting the LAMC1 Gene Results in Embryonic Lethality Due to Failure of Endoderm Differentiation. <i>Journal of Cell Biology</i> , 1999, 144, 151-160.	2.3	474
2	Design considerations for the synthesis of polymer coated iron oxide nanoparticles for stem cell labelling and tracking using MRI. <i>Chemical Society Reviews</i> , 2015, 44, 6733-6748.	18.7	176
3	Long-term tracking of cells using inorganic nanoparticles as contrast agents: are we there yet?. <i>Chemical Society Reviews</i> , 2012, 41, 2707.	18.7	157
4	Manufacturing of human placenta-derived mesenchymal stem cells for clinical trials. <i>British Journal of Haematology</i> , 2009, 144, 571-579.	1.2	145
5	Regulation of Programmed Cell Death by Basement Membranes in Embryonic Development. <i>Journal of Cell Biology</i> , 2000, 150, 1215-1221.	2.3	125
6	An explicit test of the phospholipid saturation hypothesis of acquired cold tolerance in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5489-5494.	3.3	116
7	The regulation of embryonic stem cell differentiation by leukaemia inhibitory factor (LIF). <i>Differentiation</i> , 2001, 68, 227-234.	1.0	105
8	Concise Review: Workshop Review: Understanding and Assessing the Risks of Stem Cell-Based Therapies. <i>Stem Cells Translational Medicine</i> , 2015, 4, 389-400.	1.6	98
9	Distinct GATA6- and laminin-dependent mechanisms regulate endodermal and ectodermal embryonic stem cell fates. <i>Development (Cambridge)</i> , 2004, 131, 5277-5286.	1.2	81
10	Preventing Plasmon Coupling between Gold Nanorods Improves the Sensitivity of Photoacoustic Detection of Labeled Stem Cells <i>in Vivo</i> . <i>ACS Nano</i> , 2016, 10, 7106-7116.	7.3	78
11	Non-invasive imaging reveals conditions that impact distribution and persistence of cells after in vivo administration. <i>Stem Cell Research and Therapy</i> , 2018, 9, 332.	2.4	66
12	Analysis of the distinct functions of growth factors and tissue culture substrates necessary for the long-term self-renewal of human embryonic stem cell lines. <i>Stem Cell Research</i> , 2009, 3, 28-38.	0.3	60
13	The geometric control of E14 and R1 mouse embryonic stem cell pluripotency by plasma polymer surface chemical gradients. <i>Biomaterials</i> , 2009, 30, 1066-1070.	5.7	59
14	Assessing the Efficacy of Nano- and Micro-Sized Magnetic Particles as Contrast Agents for MRI Cell Tracking. <i>PLoS ONE</i> , 2014, 9, e100259.	1.1	56
15	Photothermal Microscopy of the Core of Dextran-Coated Iron Oxide Nanoparticles During Cell Uptake. <i>ACS Nano</i> , 2012, 6, 5961-5971.	7.3	53
16	Measures of kidney function by minimally invasive techniques correlate with histological glomerular damage in SCID mice with adriamycin-induced nephropathy. <i>Scientific Reports</i> , 2015, 5, 13601.	1.6	51
17	Regulation of Mesodermal Differentiation of Mouse Embryonic Stem Cells by Basement Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 29701-29711.	1.6	49
18	Preclinical imaging methods for assessing the safety and efficacy of regenerative medicine therapies. <i>Npj Regenerative Medicine</i> , 2017, 2, 28.	2.5	47

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19	Overexpression of the MRI Reporter Genes Ferritin and Transferrin Receptor Affect Iron Homeostasis and Produce Limited Contrast in Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2015, 16, 15481-15496.	1.8	46
20	Human Urine as a Noninvasive Source of Kidney Cells. <i>Stem Cells International</i> , 2015, 2015, 1-7.	1.2	45
21	Tailoring the surface charge of dextran-based polymer coated SPIONs for modulated stem cell uptake and MRI contrast. <i>Biomaterials Science</i> , 2015, 3, 608-616.	2.6	44
22	Functionalized superparamagnetic iron oxide nanoparticles provide highly efficient iron-labeling in macrophages for magnetic resonance-based detection in vivo. <i>Cytotherapy</i> , 2017, 19, 555-569.	0.3	44
23	The self-renewal of mouse embryonic stem cells is regulated by cell-substratum adhesion and cell spreading. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2698-2705.	1.2	41
24	Transdermal Measurement of Glomerular Filtration Rate in Mice. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	41
25	SPIONs for cell labelling and tracking using MRI: magnetite or maghemite?. <i>Biomaterials Science</i> , 2018, 6, 101-106.	2.6	40
26	Induction of mesenchymal stem cell chondrogenesis by polyacrylate substrates. <i>Acta Biomaterialia</i> , 2013, 9, 6041-6051.	4.1	38
27	Differentiation of Podocyte and Proximal Tubule-Like Cells from a Mouse Kidney-Derived Stem Cell Line. <i>Stem Cells and Development</i> , 2012, 21, 296-307.	1.1	35
28	The topographical regulation of embryonic stem cell differentiation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1009-1020.	1.8	34
29	Multimodal cell tracking from systemic administration to tumour growth by combining gold nanorods and reporter genes. <i>ELife</i> , 2018, 7, .	2.8	33
30	Regulation of laminin and COUP-TF expression in extraembryonic endodermal cells. <i>Mechanisms of Development</i> , 2001, 101, 213-215.	1.7	32
31	Characterization of the interface between adsorbed fibronectin and human embryonic stem cells. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130139.	1.5	32
32	Human Kidney-Derived Cells Ameliorate Acute Kidney Injury Without Engrafting into Renal Tissue. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1373-1384.	1.6	32
33	Assessing the Effectiveness of a Far-Red Fluorescent Reporter for Tracking Stem Cells In Vivo. <i>International Journal of Molecular Sciences</i> , 2018, 19, 19.	1.8	30
34	Surface nanotopography guides kidney-derived stem cell differentiation into podocytes. <i>Acta Biomaterialia</i> , 2017, 56, 171-180.	4.1	27
35	Multicolour In Vivo Bioluminescence Imaging Using a NanoLuc-Based BRET Reporter in Combination with Firefly Luciferase. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-10.	0.4	26
36	Development of embryonic stem cells in recombinant kidneys. <i>Organogenesis</i> , 2012, 8, 125-136.	0.4	25

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37	Imaging technologies for monitoring the safety, efficacy and mechanisms of action of cell-based regenerative medicine therapies in models of kidney disease. <i>European Journal of Pharmacology</i> , 2016, 790, 74-82.	1.7	25
38	Evaluating the effectiveness of transferrin receptor-1 (TfR1) as a magnetic resonance reporter gene. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 236-244.	0.4	25
39	Coprecipitation of DEAE-dextran coated SPIONs: how synthesis conditions affect particle properties, stem cell labelling and MR contrast. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 362-370.	0.4	24
40	Ex vivo live cell tracking in kidney organoids using light sheet fluorescence microscopy. <i>PLoS ONE</i> , 2018, 13, e0199918.	1.1	22
41	Characterisation of Cultured Mesothelial Cells Derived from the Murine Adult Omentum. <i>PLoS ONE</i> , 2016, 11, e0158997.	1.1	20
42	Quantum Dots Do Not Affect the Behaviour of Mouse Embryonic Stem Cells and Kidney Stem Cells and Are Suitable for Short-Term Tracking. <i>PLoS ONE</i> , 2012, 7, e32650.	1.1	20
43	Points to Consider in Designing Mesenchymal Stem Cell-Based Clinical Trials. <i>Transfusion Medicine and Hemotherapy</i> , 2008, 35, 3-3.	0.7	19
44	Manufacture of Clinical Grade Human Placenta-Derived Multipotent Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , 2011, 698, 89-106.	0.4	19
45	Integration potential of mouse and human bone marrow-derived mesenchymal stem cells. <i>Differentiation</i> , 2012, 83, 128-137.	1.0	19
46	Magnetic Resonance Imaging for Characterization of a Chick Embryo Model of Cancer Cell Metastases. <i>Molecular Imaging</i> , 2018, 17, 153601211880958.	0.7	19
47	Poly[2-(methacryloyloxy)ethylphosphorylcholine]-coated iron oxide nanoparticles: synthesis, colloidal stability and evaluation for stem cell labelling. <i>Chemical Communications</i> , 2012, 48, 9373.	2.2	18
48	Stem Cells Derived from Neonatal Mouse Kidney Generate Functional Proximal Tubule-Like Cells and Integrate into Developing Nephrons In Vitro. <i>PLoS ONE</i> , 2013, 8, e62953.	1.1	17
49	In vivo fate of free and encapsulated iron oxide nanoparticles after injection of labelled stem cells. <i>Nanoscale Advances</i> , 2019, 1, 367-377.	2.2	16
50	Firefly luciferase offers superior performance to AkaLuc for tracking the fate of administered cell therapies. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 796-808.	3.3	16
51	Hypoxia-induced HIF1 α activation regulates small extracellular vesicle release in human embryonic kidney cells. <i>Scientific Reports</i> , 2022, 12, 1443.	1.6	16
52	MS-1 magA. <i>Molecular Imaging</i> , 2016, 15, 153601211664153.	0.7	14
53	Topography, stem cell behaviour, and organogenesis. <i>Pediatric Surgery International</i> , 2004, 20, 737-740.	0.6	13
54	The potential of small chemical functional groups for directing the differentiation of kidney stem cells. <i>Biochemical Society Transactions</i> , 2010, 38, 1062-1066.	1.6	13

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55	Measuring Kidney Perfusion, pH, and Renal Clearance Consecutively Using MRI and Multispectral Optoacoustic Tomography. <i>Molecular Imaging and Biology</i> , 2020, 22, 494-503.	1.3	13
56	Patterned substrates fabricated by a controlled freezing approach and biocompatibility evaluation by stem cells. <i>Materials Science and Engineering C</i> , 2015, 49, 390-399.	3.8	12
57	Mesenchymal stromal cells: what have we learned so far about their therapeutic potential and mechanisms of action?. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 549-562.	1.1	12
58	The KIDSTEM European Research Training Network. <i>Organogenesis</i> , 2007, 3, 2-5.	0.4	10
59	Autologous Cells for Kidney Bioengineering. <i>Current Transplantation Reports</i> , 2016, 3, 207-220.	0.9	10
60	Multimodal Imaging Techniques Show Differences in Homing Capacity Between Mesenchymal Stromal Cells and Macrophages in Mouse Renal Injury Models. <i>Molecular Imaging and Biology</i> , 2020, 22, 904-913.	1.3	10
61	siRNA-mediated knockdown of a splice variant of the PK-A catalytic subunit gene causes adult-onset paralysis in <i>C. elegans</i> . <i>Gene</i> , 2008, 408, 157-163.	1.0	7
62	A Noninvasive Imaging Toolbox Indicates Limited Therapeutic Potential of Conditionally Activated Macrophages in a Mouse Model of Multiple Organ Dysfunction. <i>Stem Cells International</i> , 2019, 2019, 1-13.	1.2	7
63	Silver nanoparticle modified surfaces induce differentiation of mouse kidney-derived stem cells. <i>RSC Advances</i> , 2018, 8, 20334-20340.	1.7	6
64	Self-Assembling Proteins as High-Performance Substrates for Embryonic Stem Cell Self-Renewal. <i>Advanced Materials</i> , 2019, 31, 1807521.	11.1	6
65	Structural diversity of the cAMP-dependent protein kinase regulatory subunit in <i>Caenorhabditis elegans</i> . <i>Cellular Signalling</i> , 2013, 25, 168-177.	1.7	5
66	Perylene Diimide Nanoprobes for In Vivo Tracking of Mesenchymal Stromal Cells Using Photoacoustic Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27930-27939.	4.0	5
67	Murine models of renal ischemia reperfusion injury: An opportunity for refinement using noninvasive monitoring methods. <i>Physiological Reports</i> , 2022, 10, e15211.	0.7	5
68	The Potential of Nanomaterials for Drug Delivery, Cell Tracking, and Regenerative Medicine. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-2.	1.5	4
69	The Potential of Nanomaterials for Drug Delivery, Cell Tracking, and Regenerative Medicine 2014. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-2.	1.5	4
70	The ZT Biopolymer: A Self-Assembling Protein Scaffold for Stem Cell Applications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4299.	1.8	4
71	Plasma Polymer Coatings To Direct the Differentiation of Mouse Kidney-Derived Stem Cells into Podocyte and Proximal Tubule-like Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2834-2845.	2.6	4
72	Functional comparison of distinct Brachyury ⁺ states in a renal differentiation assay. <i>Biology Open</i> , 2018, 7, .	0.6	2

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73	17-P008 Evaluating the expression profile and developmental potential of mouse kidney stem cells. <i>Mechanisms of Development</i> , 2009, 126, S273.	1.7	1
74	Amniotic Fluid Stem Cells within Chimeric Kidney Rudiments Differentiate to Functional Podocytes after Transplantation into Mature Rat Kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 1266-1268.	3.0	1
75	Nephron Progenitors. , 2017, , 1053-1065.		1
76	A descriptive guide for absolute quantification of produced shRNA pseudotyped lentiviral particles by real-time PCR. <i>Journal of Biological Methods</i> , 2016, 3, e55.	1.0	1
77	The Potential of Nanomaterials for Drug Delivery, Cell Tracking, and Regenerative Medicine 2013. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	1.5	0