

Biju Parekkadan

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

3,974
citations

279798
23
h-index

144013
57
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79
all docs

79
docs citations

79
times ranked

6248
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Assessment of Cancer Drug Efficacy On Breast Tumor Spheroids in Aggrewellâ„¢400 Plates Using Image Cytometry. Journal of Fluorescence, 2022, 32, 521-531.	2.5	5
2	Clinical Manufacturing of Human Mesenchymal Stromal Cells using a Potency-Driven Paradigm. Current Stem Cell Reports, 2022, 8, 61-71.	1.6	5
3	Bioactive, full-length parathyroid hormone delivered using an adeno-associated viral vector. Experimental Biology and Medicine, 2022, 247, 1885-1897.	2.4	0
4	3D host cell and pathogen-based bioassay development for testing anti-tuberculosis (TB) drug response and modeling immunodeficiency. Biomolecular Concepts, 2021, 12, 117-128.	2.2	3
5	Mesenchymal stromal cell delivery via an ex vivo bioreactor preclinical test system attenuates clot formation for intravascular application. Stem Cells Translational Medicine, 2021, 10, 883-894.	3.3	11
6	Preclinical characterisation and development of a novel myelodysplastic syndromeâ€derived cell line. British Journal of Haematology, 2021, 193, 415-419.	2.5	0
7	Non-invasive image-based cytometry for high throughput NK cell cytotoxicity analysis. Journal of Immunological Methods, 2021, 491, 112992.	1.4	2
8	Impact of Mixed Reality Presentation on STEM Engagement and Comprehension: A Pilot Study on Adult Scientists. Biomedical Engineering Education, 2021, 1, 277-290.	0.7	2
9	In Vivo Activity of Genetically Modified Cells Preseeded in Rat Vascularized Composite Allografts. Transplantation Proceedings, 2021, 53, 1751-1755.	0.6	0
10	A continuous flow cell culture system for precision cell stimulation and time-resolved profiling of cell secretion. Analytical Biochemistry, 2021, 625, 114213.	2.4	7
11	In Vitro Miniaturized Tuberculosis Spheroid Model. Biomedicines, 2021, 9, 1209.	3.2	4
12	Pharmacological Effects of Exâ€Vivo Mesenchymal Stem Cell Immunotherapy in Patients with Acute Kidney Injury and Underlying Systemic Inflammation. Stem Cells Translational Medicine, 2021, 10, 1588-1601.	3.3	9
13	Assembly of Longâ€Adapter Singleâ€Strand Oligonucleotide (LASSO) Probes for Massively Parallel Capture of Kilobase Size DNA Targets. Current Protocols, 2021, 1, e278.	2.9	1
14	Massively parallel DNA target capture using long adapter single stranded oligonucleotide (LASSO) probes assembled through a novel DNA recombinase mediated methodology. Biotechnology Journal, 2021, , 2100240.	3.5	2
15	Tracking leukemic Tâ€cell transcriptional dynamics in vivo with a bloodâ€based reporter assay. FEBS Open Bio, 2020, 10, 1868-1879.	2.3	3
16	Mesenchymal Stromal Cell Bioreactor for Ex Vivo Reprogramming of Human Immune Cells. Scientific Reports, 2020, 10, 10142.	3.3	24
17	Non-invasive cell counting of adherent, suspended and encapsulated mammalian cells using optical density. BioTechniques, 2020, 68, 35-40.	1.8	10
18	Kinetics of MSC-based enzyme therapy for immunoregulation. Journal of Translational Medicine, 2019, 17, 263.	4.4	10

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19	Quantitative assessment of LASSO probe assembly and long-read multiplexed cloning. BMC Biotechnology, 2019, 19, 50.	3.3	4
20	Effects of intermittent T-cell cluster disaggregation on proliferative capacity and checkpoint marker expression. Autoimmunity, 2019, 52, 102-107.	2.6	0
21	Real-time transfer of lentiviral particles by producer cells using an engineered coculture system. Cytotechnology, 2019, 71, 1019-1031.	1.6	4
22	Computational Simulation of Adapter Length-Dependent LASSO Probe Capture Efficiency. Biomolecules, 2019, 9, 199.	4.0	3
23	Convergence of Cell Pharmacology and Drug Delivery. Stem Cells Translational Medicine, 2019, 8, 874-879.	3.3	14
24	Ex vivo perfusion-based engraftment of genetically engineered cell sensors into transplantable organs. PLoS ONE, 2019, 14, e0225222.	2.5	10
25	Closed loop bioreactor system for the ex vivo expansion of human T cells. Cytotherapy, 2019, 21, 76-82.	0.7	3
26	Title is missing!. , 2019, 14, e0225222.		0
27	Title is missing!. , 2019, 14, e0225222.		0
28	Title is missing!. , 2019, 14, e0225222.		0
29	Title is missing!. , 2019, 14, e0225222.		0
30	Stromalized microreactor supports murine hematopoietic progenitor enrichment. Biomedical Microdevices, 2018, 20, 13.	2.8	4
31	Orthogonal potency analysis of mesenchymal stromal cell function during ex vivo expansion. Experimental Cell Research, 2018, 362, 102-110.	2.6	9
32	Image-Based Profiling of Patient-Derived Pancreatic Tumorâ€™Stromal Cell Interactions Within a Micropatterned Tumor Model. Technology in Cancer Research and Treatment, 2018, 17, 153303381880363.	1.9	0
33	The human lymph node microenvironment unilaterally regulates T-cell activation and differentiation. PLoS Biology, 2018, 16, e2005046.	5.6	78
34	Extracorporeal Stromal Cell Therapy for Subjects With Dialysis-Dependent Acute Kidney Injury. Kidney International Reports, 2018, 3, 1119-1127.	0.8	12
35	Therapeutic Delivery Specifications Identified Through Compartmental Analysis of a Mesenchymal Stromal Cell-Immune Reaction. Scientific Reports, 2018, 8, 6816.	3.3	18
36	Biomanufacturing for clinically advanced cell therapies. Nature Biomedical Engineering, 2018, 2, 362-376.	22.5	127

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37	Artificial T Cell Mimetics to Combat Melanoma Tumor Growth. American Journal of Advanced Drug Delivery, 2018, 6, 21-32.	0.2	2
38	An engineered biomarker system to monitor and modulate immune clearance of cell therapies. Cytotherapy, 2017, 19, 1537-1545.	0.7	2
39	Long-adaptor single-strand oligonucleotide probes for the massively multiplexed cloning of kilobase genome regions. Nature Biomedical Engineering, 2017, 1, .	22.5	10
40	Suicide Gene-Engineered Stromal Cells Reveal a Dynamic Regulation of Cancer Metastasis. Scientific Reports, 2016, 6, 21239.	3.3	13
41	Multiple genetically engineered humanized microenvironments in a single mouse. Biomaterials Research, 2016, 20, 19.	6.9	11
42	A wealth of cells. Science Translational Medicine, 2016, 8, .	12.4	0
43	Planting the right seeds. Science Translational Medicine, 2016, 8, .	12.4	0
44	Scaffold-integrated microchips for end-to-end in vitro tumor cell attachment and xenograft formation. Technology, 2015, 03, 179-188.	1.4	6
45	It takes two to tango. Science Translational Medicine, 2015, 7, .	12.4	0
46	Going viral. Science Translational Medicine, 2015, 7, .	12.4	0
47	Shining a light on stem cell biology. Science Translational Medicine, 2015, 7, .	12.4	0
48	Nanoparticles, macroplanning. Science Translational Medicine, 2015, 7, .	12.4	0
49	A hop, skip, and a protein away. Science Translational Medicine, 2015, 7, .	12.4	0
50	Press pause to fast forward. Science Translational Medicine, 2015, 7, .	12.4	0
51	Pharmacokinetics of Natural and Engineered Secreted Factors Delivered by Mesenchymal Stromal Cells. PLoS ONE, 2014, 9, e89882.	2.5	31
52	Resolving cancerâ€‘stroma interfacial signalling and interventions with micropatterned tumourâ€‘stromal assays. Nature Communications, 2014, 5, 5662.	12.8	45
53	Enriched Protein Screening of Human Bone Marrow Mesenchymal Stromal Cell Secretions Reveals MFAP5 and PENK as Novel IL-10 Modulators. Molecular Therapy, 2014, 22, 999-1007.	8.2	33
54	Lymph node fibroblastic reticular cell transplants show robust therapeutic efficacy in high-mortality murine sepsis. Science Translational Medicine, 2014, 6, 249ra109.	12.4	39

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55	A comparison of adipose and bone marrow-derived mesenchymal stromal cell secreted factors in the treatment of systemic inflammation. <i>Journal of Inflammation</i> , 2014, 11, 1.	3.4	99
56	Bioengineered Implantable Scaffolds as a Tool to Study Stromal-Derived Factors in Metastatic Cancer Models. <i>Cancer Research</i> , 2014, 74, 7229-7238.	0.9	56
57	Microcavity substrates casted from self-assembled microsphere monolayers for spheroid cell culture. <i>Biomedical Microdevices</i> , 2014, 16, 609-615.	2.8	12
58	Capture and Printing of Fixed Stromal Cell Membranes for Bioactive Display on PDMS Surfaces. <i>Langmuir</i> , 2013, 29, 10611-10616.	3.5	10
59	Aire Controls Mesenchymal Stem Cell-mediated Suppression in Chronic Colitis. <i>Molecular Therapy</i> , 2012, 20, 178-186.	8.2	22
60	Secreted Factors from Bone Marrow Stromal Cells Upregulate IL-10 and Reverse Acute Kidney Injury. <i>Stem Cells International</i> , 2012, 2012, 1-12.	2.5	23
61	Implantable microenvironments to attract hematopoietic stem/cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19638-19643.	7.1	93
62	Gap junction inhibition prevents drug-induced liver toxicity and fulminant hepatic failure. <i>Nature Biotechnology</i> , 2012, 30, 179-183.	17.5	116
63	Phenotypic and functional characterization of human bone marrow stromal cells in hollow-fibre bioreactors. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, 369-377.	2.7	11
64	Bone Marrow Stromal Cell Transplants Prevent Experimental Enterocolitis and Require Host CD11b+ Splenocytes. <i>Gastroenterology</i> , 2011, 140, 966-975.e4.	1.3	58
65	A Mesenchymal Stem Cell Potency Assay. <i>Methods in Molecular Biology</i> , 2010, 677, 221-231.	0.9	34
66	Mesenchymal Stem Cells: Mechanisms of Immunomodulation and Homing. <i>Cell Transplantation</i> , 2010, 19, 667-679.	2.5	611
67	Mesenchymal Stem Cells as Therapeutics. <i>Annual Review of Biomedical Engineering</i> , 2010, 12, 87-117.	12.3	672
68	Reactive Bone Marrow Stromal Cells Attenuate Systemic Inflammation via sTNFR1. <i>Molecular Therapy</i> , 2010, 18, 1857-1864.	8.2	144
69	Long-Term Superior Performance of a Stem Cell/Hepatocyte Device for the Treatment of Acute Liver Failure. <i>Tissue Engineering - Part A</i> , 2009, 15, 3377-3388.	3.1	59
70	Mesenchymal stem cell-derived molecules directly modulate hepatocellular death and regeneration<i>in vitro</i> and<i>in vivo</i>. <i>Hepatology</i> , 2008, 47, 1634-1643.	7.3	461
71	Bone Marrow-Derived Mesenchymal Stem Cells Ameliorate Autoimmune Enteropathy Independently of Regulatory T Cells. <i>Stem Cells</i> , 2008, 26, 1913-1919.	3.2	134
72	Cell-cell interaction modulates neuroectodermal specification of embryonic stem cells. <i>Neuroscience Letters</i> , 2008, 438, 190-195.	2.1	58

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73	Immunomodulation of activated hepatic stellate cells by mesenchymal stem cells. Biochemical and Biophysical Research Communications, 2007, 363, 247-252.	2.1	224
74	Osmotic Selection of Human Mesenchymal Stem/Progenitor Cells from Umbilical Cord Blood. Tissue Engineering, 2007, 13, 2465-2473.	4.6	29
75	Mesenchymal Stem Cell-Derived Molecules Reverse Fulminant Hepatic Failure. PLoS ONE, 2007, 2, e941.	2.5	462