

# Biju Parekkadan

## List of Publications by Year in descending order

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75  
papers

3,974  
citations

279798

23  
h-index

144013

57  
g-index

79  
all docs

79  
docs citations

79  
times ranked

6248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cells as Therapeutics. Annual Review of Biomedical Engineering, 2010, 12, 87-117.	12.3	672
2	Mesenchymal Stem Cells: Mechanisms of Immunomodulation and Homing. Cell Transplantation, 2010, 19, 667-679.	2.5	611
3	Mesenchymal Stem Cell-Derived Molecules Reverse Fulminant Hepatic Failure. PLoS ONE, 2007, 2, e941.	2.5	462
4	Mesenchymal stem cell-derived molecules directly modulate hepatocellular death and regeneration <i>in vitro</i> and <i>in vivo</i> . Hepatology, 2008, 47, 1634-1643.	7.3	461
5	Immunomodulation of activated hepatic stellate cells by mesenchymal stem cells. Biochemical and Biophysical Research Communications, 2007, 363, 247-252.	2.1	224
6	Reactive Bone Marrow Stromal Cells Attenuate Systemic Inflammation via sTNFR1. Molecular Therapy, 2010, 18, 1857-1864.	8.2	144
7	Bone Marrow-Derived Mesenchymal Stem Cells Ameliorate Autoimmune Enteropathy Independently of Regulatory T Cells. Stem Cells, 2008, 26, 1913-1919.	3.2	134
8	Biomanufacturing for clinically advanced cell therapies. Nature Biomedical Engineering, 2018, 2, 362-376.	22.5	127
9	Gap junction inhibition prevents drug-induced liver toxicity and fulminant hepatic failure. Nature Biotechnology, 2012, 30, 179-183.	17.5	116
10	A comparison of adipose and bone marrow-derived mesenchymal stromal cell secreted factors in the treatment of systemic inflammation. Journal of Inflammation, 2014, 11, 1.	3.4	99
11	Implantable microenvironments to attract hematopoietic stem/cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19638-19643.	7.1	93
12	The human lymph node microenvironment unilaterally regulates T-cell activation and differentiation. PLoS Biology, 2018, 16, e2005046.	5.6	78
13	Long-Term Superior Performance of a Stem Cell/Hepatocyte Device for the Treatment of Acute Liver Failure. Tissue Engineering - Part A, 2009, 15, 3377-3388.	3.1	59
14	Cell-cell interaction modulates neuroectodermal specification of embryonic stem cells. Neuroscience Letters, 2008, 438, 190-195.	2.1	58
15	Bone Marrow Stromal Cell Transplants Prevent Experimental Enterocolitis and Require Host CD11b+ Splenocytes. Gastroenterology, 2011, 140, 966-975.e4.	1.3	58
16	Bioengineered Implantable Scaffolds as a Tool to Study Stromal-Derived Factors in Metastatic Cancer Models. Cancer Research, 2014, 74, 7229-7238.	0.9	56
17	Resolving cancer-stroma interfacial signalling and interventions with micropatterned tumour-stromal assays. Nature Communications, 2014, 5, 5662.	12.8	45
18	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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19	A Mesenchymal Stem Cell Potency Assay. <i>Methods in Molecular Biology</i> , 2010, 677, 221-231.	0.9	34
20	Enriched Protein Screening of Human Bone Marrow Mesenchymal Stromal Cell Secretions Reveals MFAP5 and PENK as Novel IL-10 Modulators. <i>Molecular Therapy</i> , 2014, 22, 999-1007.	8.2	33
21	Pharmacokinetics of Natural and Engineered Secreted Factors Delivered by Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2014, 9, e89882.	2.5	31
22	Osmotic Selection of Human Mesenchymal Stem/Progenitor Cells from Umbilical Cord Blood. <i>Tissue Engineering</i> , 2007, 13, 2465-2473.	4.6	29
23	Mesenchymal Stromal Cell Bioreactor for Ex Vivo Reprogramming of Human Immune Cells. <i>Scientific Reports</i> , 2020, 10, 10142.	3.3	24
24	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
25	Aire Controls Mesenchymal Stem Cell-mediated Suppression in Chronic Colitis. <i>Molecular Therapy</i> , 2012, 20, 178-186.	8.2	22
26	Therapeutic Delivery Specifications Identified Through Compartmental Analysis of a Mesenchymal Stromal Cell-Immune Reaction. <i>Scientific Reports</i> , 2018, 8, 6816.	3.3	18
27	Convergence of Cell Pharmacology and Drug Delivery. <i>Stem Cells Translational Medicine</i> , 2019, 8, 874-879.	3.3	14
28	Suicide Gene-Engineered Stromal Cells Reveal a Dynamic Regulation of Cancer Metastasis. <i>Scientific Reports</i> , 2016, 6, 21239.	3.3	13
29	Microcavity substrates casted from self-assembled microsphere monolayers for spheroid cell culture. <i>Biomedical Microdevices</i> , 2014, 16, 609-615.	2.8	12
30	Extracorporeal Stromal Cell Therapy for Subjects With Dialysis-Dependent Acute Kidney Injury. <i>Kidney International Reports</i> , 2018, 3, 1119-1127.	0.8	12
31	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
32	Multiple genetically engineered humanized microenvironments in a single mouse. <i>Biomaterials Research</i> , 2016, 20, 19.	6.9	11
33	Mesenchymal stromal cell delivery via an ex vivo bioreactor preclinical test system attenuates clot formation for intravascular application. <i>Stem Cells Translational Medicine</i> , 2021, 10, 883-894.	3.3	11
34	Capture and Printing of Fixed Stromal Cell Membranes for Bioactive Display on PDMS Surfaces. <i>Langmuir</i> , 2013, 29, 10611-10616.	3.5	10
35	Long-adaptor single-strand oligonucleotide probes for the massively multiplexed cloning of kilobase genome regions. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	10
36	Kinetics of MSC-based enzyme therapy for immunoregulation. <i>Journal of Translational Medicine</i> , 2019, 17, 263.	4.4	10

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37	Ex vivo perfusion-based engraftment of genetically engineered cell sensors into transplantable organs. PLoS ONE, 2019, 14, e0225222.	2.5	10
38	Non-invasive cell counting of adherent, suspended and encapsulated mammalian cells using optical density. BioTechniques, 2020, 68, 35-40.	1.8	10
39	Orthogonal potency analysis of mesenchymal stromal cell function during ex vivo expansion. Experimental Cell Research, 2018, 362, 102-110.	2.6	9
40	Pharmacological Effects of Ex 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
41	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
42	Scaffold-integrated microchips for end-to-end in vitro tumor cell attachment and xenograft formation. Technology, 2015, 03, 179-188.	1.4	6
43	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
44	Clinical Manufacturing of Human Mesenchymal Stromal Cells using a Potency-Driven Paradigm. Current Stem Cell Reports, 2022, 8, 61-71.	1.6	5
45	Stromalized microreactor supports murine hematopoietic progenitor enrichment. Biomedical Microdevices, 2018, 20, 13.	2.8	4
46	Quantitative assessment of LASSO probe assembly and long-read multiplexed cloning. BMC Biotechnology, 2019, 19, 50.	3.3	4
47	Real-time transfer of lentiviral particles by producer cells using an engineered coculture system. Cytotechnology, 2019, 71, 1019-1031.	1.6	4
48	In Vitro Miniaturized Tuberculosis Spheroid Model. Biomedicines, 2021, 9, 1209.	3.2	4
49	Computational Simulation of Adapter Length-Dependent LASSO Probe Capture Efficiency. Biomolecules, 2019, 9, 199.	4.0	3
50	Closed loop bioreactor system for the ex vivo expansion of human T cells. Cytotherapy, 2019, 21, 76-82.	0.7	3
51	Tracking leukemic T cell transcriptional dynamics in vivo with a blood-based reporter assay. FEBS Open Bio, 2020, 10, 1868-1879.	2.3	3
52	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
53	An engineered biomarker system to monitor and modulate immune clearance of cell therapies. Cytotherapy, 2017, 19, 1537-1545.	0.7	2
54	Non-invasive image-based cytometry for high throughput NK cell cytotoxicity analysis. Journal of Immunological Methods, 2021, 491, 112992.	1.4	2

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55	Impact of Mixed Reality Presentation on STEM Engagement and Comprehension: A Pilot Study on Adult Scientists. <i>Biomedical Engineering Education</i> , 2021, 1, 277-290.	0.7	2
56	Artificial T Cell Mimetics to Combat Melanoma Tumor Growth. <i>American Journal of Advanced Drug Delivery</i> , 2018, 6, 21-32.	0.2	2
57	Massively parallel DNA target capture using long adapter single stranded oligonucleotide (LASSO) probes assembled through a novel DNA recombinase mediated methodology. <i>Biotechnology Journal</i> , 2021, , 2100240.	3.5	2
58	Assembly of Long Adapter Single Strand Oligonucleotide (LASSO) Probes for Massively Parallel Capture of Kilobase Size DNA Targets. <i>Current Protocols</i> , 2021, 1, e278.	2.9	1
59	Image-Based Profiling of Patient-Derived Pancreatic Tumor Stromal Cell Interactions Within a Micropatterned Tumor Model. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303381880363.	1.9	0
60	Effects of intermittent T-cell cluster disaggregation on proliferative capacity and checkpoint marker expression. <i>Autoimmunity</i> , 2019, 52, 102-107.	2.6	0
61	Preclinical characterisation and development of a novel myelodysplastic syndrome derived cell line. <i>British Journal of Haematology</i> , 2021, 193, 415-419.	2.5	0
62	In Vivo Activity of Genetically Modified Cells Preseeded in Rat Vascularized Composite Allografts. <i>Transplantation Proceedings</i> , 2021, 53, 1751-1755.	0.6	0
63	It takes two to tango. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
64	Going viral. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
65	Shining a light on stem cell biology. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
66	Nanoparticles, macroplanning. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
67	A hop, skip, and a protein away. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
68	Press pause to fast forward. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	0
69	A wealth of cells. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
70	Planting the right seeds. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
71	Title is missing!. , 2019, 14, e0225222.		0
72	Title is missing!. , 2019, 14, e0225222.		0

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73	Title is missing!. , 2019, 14, e0225222.		0
74	Title is missing!. , 2019, 14, e0225222.		0
75	Bioactive, full-length parathyroid hormone delivered using an adeno-associated viral vector. Experimental Biology and Medicine, 2022, 247, 1885-1897.	2.4	0