Raj R Rao

List of Publications by Year
in descending order

35 papers	1,346 citations	471509 17 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	1923 citing authors

#	Article	IF	Citations
1	Preserving the genetic integrity of human embryonic stem cells. Nature Biotechnology, 2005, 23, 19-20.	17.5	392
2	Dynamic Dependence on ATR and ATM for Double-Strand Break Repair in Human Embryonic Stem Cells and Neural Descendants. PLoS ONE, 2010, 5, e10001.	2.5	103
3	Human neural progenitor cells derived from embryonic stem cells in feeder-free cultures. Differentiation, 2008, 76, 454-464.	1.9	90
4	Effect of substrate stiffness on early human embryonic stem cell differentiation. Journal of Biological Engineering, 2013, 7, 7.	4.7	90
5	Comparative transcriptional profiling of two human embryonic stem cell lines. Biotechnology and Bioengineering, 2004, 88, 273-286.	3.3	67
6	Gene Expression Profiling of Embryonic Stem Cells Leads to Greater Understanding of Pluripotency and Early Developmental Events1. Biology of Reproduction, 2004, 71, 1772-1778.	2.7	67
7	Analysis of Embryoid Bodies Derived from Human Induced Pluripotent Stem Cells as a Means to Assess Pluripotency. Stem Cells International, 2012, 2012, 1-9.	2.5	51
8	Mitochondrial Gene Therapy Improves Respiration, Biogenesis, and Transcription in G11778A Leber's Hereditary Optic Neuropathy and T8993G Leigh's Syndrome Cells. Human Gene Therapy, 2012, 23, 647-657.	2.7	49
9	Nuclear Factor I Isoforms Regulate Gene Expression During the Differentiation of Human Neural Progenitors to Astrocytes. Stem Cells, 2009, 27, 1173-1181.	3.2	48
10	Transcriptional profiling of initial differentiation events in human embryonic stem cells. Biochemical and Biophysical Research Communications, 2004, 323, 453-464.	2.1	45
11	Characterization of human fibroblast-derived extracellular matrix components for human pluripotent stem cell propagation. Acta Biomaterialia, 2010, 6, 4622-4633.	8.3	41
12	Role of bioinspired polymers in determination of pluripotent stem cell fate. Regenerative Medicine, 2009, 4, 561-578.	1.7	33
13	Pro-elastogenic effects of bone marrow mesenchymal stem cell-derived smooth muscle cells on cultured aneurysmal smooth muscle cells. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 679-693.	2.7	31
14	Differing Lectin Binding Profiles among Human Embryonic Stem Cells and Derivatives Aid in the Isolation of Neural Progenitor Cells. PLoS ONE, 2011, 6, e23266.	2.5	25
15	Stable propagation of human embryonic and induced pluripotent stem cells on decellularized human substrates. Biotechnology Progress, 2010, 26, 1126-1134.	2.6	21
16	Propagation of human embryonic and induced pluripotent stem cells in an indirect co-culture system. Biochemical and Biophysical Research Communications, 2010, 393, 211-216.	2.1	20
17	Cell Surface Markers in Human Embryonic Stem Cells. Methods in Molecular Biology, 2007, 407, 51-61.	0.9	18
18	Large area micropatterning of cells on polydimethylsiloxane surfaces. Journal of Biological Engineering, 2014, 8, 24.	4.7	17

#	Article	IF	Citations
19	Silk 3D matrices incorporating human neural progenitor cells for neural tissue engineering applications. Polymer Journal, 2015, 47, 819-825.	2.7	17
20	Effects of 60 Hz electromagnetic field exposure on APP695 transcription levels in differentiating human neuroblastoma cells. Bioelectrochemistry, 2002, 57, 9-15.	4.6	16
21	Isolation and Characterization of Murine Multipotent Lung Stem Cells. Methods in Molecular Biology, 2013, 962, 183-191.	0.9	15
22	BIOCHEMICAL AND ELECTROPHYSIOLOGICAL DIFFERENTIATION PROFILE OF A HUMAN NEUROBLASTOMA (IMR-32) CELL LINE. In Vitro Cellular and Developmental Biology - Animal, 2002, 38, 450.	1.5	14
23	Stem Cell-Based Models and Therapies for Neurodegenerative Diseases. Critical Reviews in Biomedical Engineering, 2009, 37, 321-353.	0.9	13
24	Perspectives on Stem Cell-Based Elastic Matrix Regenerative Therapies for Abdominal Aortic Aneurysms. Stem Cells Translational Medicine, 2013, 2, 401-408.	3.3	12
25	Quantitative analysis of mitochondrial morphologies in human induced pluripotent stem cells for Leigh syndrome. Stem Cell Research, 2021, 57, 102572.	0.7	12
26	Knockdown of CDK2AP1 in Primary Human Fibroblasts Induces p53 Dependent Senescence. PLoS ONE, 2015, 10, e0120782.	2.5	9
27	Immunomodulatory functions of human mesenchymal stromal cells are enhanced when cultured on HEP/COL multilayers supplemented with interferon-gamma. Materials Today Bio, 2022, 13, 100194.	5.5	7
28	A single magnetic field exposure system for sequential investigation of real time and downstream cellular responses. Bioelectromagnetics, 2004, 25, 27-32.	1.6	6
29	Uniform Adherent Neural Progenitor Populations from Rhesus Embryonic Stem Cells. Stem Cells and Development, 2006, 15, 200-208.	2.1	6
30	Generation and Characterization of Human Mesenchymal Stem Cell-Derived Smooth Muscle Cells. International Journal of Molecular Sciences, 2021, 22, 10335.	4.1	5
31	ARHGDIAConfers Selective Advantage to Dissociated Human Pluripotent Stem Cells. Stem Cells and Development, 2021, 30, 705-713.	2.1	3
32	A comparative evaluation of layerâ€byâ€layer assembly techniques for surface modification of microcarriers used in human mesenchymal stromal cell manufacturing. Biotechnology Journal, 2022, 17, e2100605.	3.5	2
33	Stem Cells, Neural Progenitors, and Engineered Stem Cells. Methods in Molecular Biology, 2015, 1254, 255-267.	0.9	1
34	Identification of Metabolic Changes in Genetically Unstable Stem Cells by Using Model Analysis of Gene Expression. Chemistry and Biodiversity, 2012, 9, 911-929.	2.1	0
35	Differentiation and Engineering of Human Stem Cells for Smooth Muscle Generation. Tissue Engineering - Part B: Reviews, 2022, , .	4.8	0