

# Carlos A V Rodrigues

## List of Publications by Citations

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40  
papers

880  
citations

17  
h-index

29  
g-index

43  
ext. papers

1,102  
ext. citations

4.9  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
40	Neural stem cell differentiation by electrical stimulation using a cross-linked PEDOT substrate: Expanding the use of biocompatible conjugated conductive polymers for neural tissue engineering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 1158-68	4	170
39	Stem cell cultivation in bioreactors. <i>Biotechnology Advances</i> , <b>2011</b> , 29, 815-29	17.8	158
38	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. <i>Scientific Reports</i> , <b>2019</b> , 9, 9229	4.9	46
37	Polyaniline-polycaprolactone blended nanofibers for neural cell culture. <i>European Polymer Journal</i> , <b>2019</b> , 117, 28-37	5.2	36
36	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. <i>Journal of Biotechnology</i> , <b>2016</b> , 234, 71-82	3.7	33
35	Dissolvable Microcarriers Allow Scalable Expansion And Harvesting Of Human Induced Pluripotent Stem Cells Under Xeno-Free Conditions. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800461	5.6	33
34	Hypoxia enhances proliferation of mouse embryonic stem cell-derived neural stem cells. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 260-70	4.9	31
33	Stem cell bioprocessing for regenerative medicine. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 34-47	3.5	26
32	Strategies for the expansion of human induced pluripotent stem cells as aggregates in single-use Vertical-Wheel bioreactors. <i>Journal of Biological Engineering</i> , <b>2019</b> , 13, 74	6.3	25
31	Microcarrier expansion of mouse embryonic stem cell-derived neural stem cells in stirred bioreactors. <i>Biotechnology and Applied Biochemistry</i> , <b>2011</b> , 58, 231-42	2.8	24
30	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 492-503	3.5	21
29	Scalable culture of human induced pluripotent cells on microcarriers under xeno-free conditions using single-use vertical-wheel bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3597-3606	3.5	20
28	Scalable expansion of human-induced pluripotent stem cells in xeno-free microcarriers. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1283, 23-9	1.4	20
27	Scalable Manufacturing of Human Mesenchymal Stromal Cells in the Vertical-Wheel Bioreactor System: An Experimental and Economic Approach. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800716	5.6	19
26	Clinical-scale purification of pluripotent stem cell derivatives for cell-based therapies. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1103-14	5.6	19
25	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 70	5.8	18
24	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 553444	5.7	18

23	Functionalization of Electrospun Nanofibers and Fiber Alignment Enhance Neural Stem Cell Proliferation and Neuronal Differentiation. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 580135	5.8	17
22	A value-added exopolysaccharide as a coating agent for MRI nanoprobe. <i>Nanoscale</i> , <b>2015</b> , 7, 14272-83	7.7	16
21	Integrated platform for production and purification of human pluripotent stem cell-derived neural precursors. <i>Stem Cell Reviews and Reports</i> , <b>2014</b> , 10, 151-61	6.4	16
20	Nonviral gene delivery to neural stem cells with minicircles by microporation. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1379-87	6.9	15
19	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	13
18	POLYBENZIMIDAZOLE NANOFIBERS FOR NEURAL STEM CELL CULTURE. <i>Materials Today Chemistry</i> , <b>2019</b> , 14,	6.2	11
17	Polyaniline-polycaprolactone fibers for neural applications: Electroconductivity enhanced by pseudo-doping. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111680	8.3	9
16	Effect of Electrical Stimulation Conditions on Neural Stem Cells Differentiation on Cross-Linked PEDOT:PSS Films. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 591838	5.8	9
15	Challenges and Solutions for Commercial Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products. <i>Bioengineering</i> , <b>2020</b> , 7,	5.3	8
14	Microcarrier Culture Systems for Stem Cell Manufacturing <b>2016</b> , 77-104		7
13	Next-Generation Stem Cell Expansion Technologies. <i>Cell &amp; Gene Therapy Insights</i> , <b>2018</b> , 4, 791-804	2.3	6
12	Single-Use Bioreactors for Human Pluripotent and Adult Stem Cells: Towards Regenerative Medicine Applications. <i>Bioengineering</i> , <b>2021</b> , 8,	5.3	6
11	Transcriptome profiling of human pluripotent stem cell-derived cerebellar organoids reveals faster commitment under dynamic conditions. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2781-2803	4.9	6
10	A Concise Review on Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Personalized Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , <b>2021</b> , 17, 748-776	7.3	6
9	Purification of human induced pluripotent stem cell-derived neural precursors using magnetic activated cell sorting. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1283, 137-45	1.4	3
8	Suspension Culture of Human Induced Pluripotent Stem Cells in Single-Use Vertical-Wheel Bioreactors Using Aggregate and Microcarrier Culture Systems. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2286, 167-178	1.4	3
7	Electrical stimulation of neural-differentiating iPSCs on novel coaxial electroconductive nanofibers. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5359-5382	7.4	3
6	The effect of electrospun scaffolds on the glycosaminoglycan profile of differentiating neural stem cells. <i>Biochimie</i> , <b>2021</b> , 182, 61-72	4.6	2

- 5 PEDOT:PSS-Coated Polybenzimidazole Electroconductive Nanofibers for Biomedical Applications. *Polymers*, **2021**, 13, 4-5 2
- 4 Enrichment and Separation Technologies for Stem Cell-Based Therapies **2016**, 199-213 1
- 3 Cell Culture Process Scale-Up Challenges for Commercial-Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products.. *Bioengineering*, **2022**, 9, 5-3 1
- 2 3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. *Methods in Molecular Biology*, **2020**, 1 1.4
- 1 Emerging strategies for scalable human induced pluripotent stem cell expansion and differentiation **2021**, 163-185