Carlos A V Rodrigues

List of Publications by Year in Descending Order

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	Cell Culture Process Scale-Up Challenges for Commercial-Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products.. *Bioengineering*, **2022**, 9,	5.3	1
39	Suspension Culture of Human Induced Pluripotent Stem Cells in Single-Use Vertical-Wheel Bioreactors Using Aggregate and Microcarrier Culture Systems. *Methods in Molecular Biology*, **2021**, 2286, 167-178	1.4	3
38	The effect of electrospun scaffolds on the glycosaminoglycan profile of differentiating neural stem cells. *Biochimie*, **2021**, 182, 61-72	4.6	2
37	Single-Use Bioreactors for Human Pluripotent and Adult Stem Cells: Towards Regenerative Medicine Applications. *Bioengineering*, **2021**, 8,	5.3	6
36	Transcriptome profiling of human pluripotent stem cell-derived cerebellar organoids reveals faster commitment under dynamic conditions. *Biotechnology and Bioengineering*, **2021**, 118, 2781-2803	4.9	6
35	Polyaniline-polycaprolactone fibers for neural applications: Electroconductivity enhanced by pseudo-doping. *Materials Science and Engineering C*, **2021**, 120, 111680	8.3	9
34	A Concise Review on Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Personalized Regenerative Medicine. *Stem Cell Reviews and Reports*, **2021**, 17, 748-776	7.3	6
33	Electrical stimulation of neural-differentiating iPSCs on novel coaxial electroconductive nanofibers. *Biomaterials Science*, **2021**, 9, 5359-5382	7.4	3
32	Emerging strategies for scalable human induced pluripotent stem cell expansion and differentiation **2021**, 163-185		
31	Effect of Electrical Stimulation Conditions on Neural Stem Cells Differentiation on Cross-Linked PEDOT:PSS Films. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 591838	5.8	9
30	PEDOT:PSS-Coated Polybenzimidazole Electroconductive Nanofibers for Biomedical Applications. *Polymers*, **2021**, 13,	4.5	2
29	3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. *Methods in Molecular Biology*, **2020**, 1	1.4	
28	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. *Journal of Visualized Experiments*, **2020**,	1.6	13
27	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 70	5.8	18
26	Challenges and Solutions for Commercial Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products. *Bioengineering*, **2020**, 7,	5.3	8
25	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 553444	5.7	18
24	Functionalization of Electrospun Nanofibers and Fiber Alignment Enhance Neural Stem Cell Proliferation and Neuronal Differentiation. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 580135	5.8	17

23	Strategies for the expansion of human induced pluripotent stem cells as aggregates in single-use Vertical-Wheel® bioreactors. *Journal of Biological Engineering*, **2019**, 13, 74	6.3	25
22	POLYBENZIMIDAZOLE NANOFIBERS FOR NEURAL STEM CELL CULTURE. *Materials Today Chemistry*, **2019**, 14,	6.2	11
21	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. *Scientific Reports*, **2019**, 9, 9229	4.9	46
20	Polyaniline-polycaprolactone blended nanofibers for neural cell culture. *European Polymer Journal*, **2019**, 117, 28-37	5.2	36
19	Scalable Manufacturing of Human Mesenchymal Stromal Cells in the Vertical-Wheel Bioreactor System: An Experimental and Economic Approach. *Biotechnology Journal*, **2019**, 14, e1800716	5.6	19
18	Dissolvable Microcarriers Allow Scalable Expansion And Harvesting Of Human Induced Pluripotent Stem Cells Under Xeno-Free Conditions. *Biotechnology Journal*, **2019**, 14, e1800461	5.6	33
17	Scalable culture of human induced pluripotent cells on microcarriers under xeno-free conditions using single-use vertical-wheel® bioreactors. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 3597-3606	3.5	20
16	Next-Generation Stem Cell Expansion Technologies. *Cell & Gene Therapy Insights*, **2018**, 4, 791-804	2.3	6
15	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 492-503	3.5	21
14	Microcarrier Culture Systems for Stem Cell Manufacturing **2016**, 77-104		7
13	Enrichment and Separation Technologies for Stem Cell-Based Therapies **2016**, 199-213		1
12	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. *Journal of Biotechnology*, **2016**, 234, 71-82	3.7	33
11	A value-added exopolysaccharide as a coating agent for MRI nanoprobes. *Nanoscale*, **2015**, 7, 14272-83	7.7	16
10	Clinical-scale purification of pluripotent stem cell derivatives for cell-based therapies. *Biotechnology Journal*, **2015**, 10, 1103-14	5.6	19
9	Scalable expansion of human-induced pluripotent stem cells in xeno-free microcarriers. *Methods in Molecular Biology*, **2015**, 1283, 23-9	1.4	20
8	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. *Biochimica Et Biophysica Acta - General Subjects*, **2015**, 1850, 1158-68	4	170
7	Purification of human induced pluripotent stem cell-derived neural precursors using magnetic activated cell sorting. *Methods in Molecular Biology*, **2015**, 1283, 137-45	1.4	3
6	Integrated platform for production and purification of human pluripotent stem cell-derived neural precursors. *Stem Cell Reviews and Reports*, **2014**, 10, 151-61	6.4	16

5	Stem cell bioprocessing for regenerative medicine. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 34-47	3.5	26
4	Nonviral gene delivery to neural stem cells with minicircles by microporation. *Biomacromolecules*, **2013**, 14, 1379-87	6.9	15
3	Stem cell cultivation in bioreactors. *Biotechnology Advances*, **2011**, 29, 815-29	17.8	158
2	Microcarrier expansion of mouse embryonic stem cell-derived neural stem cells in stirred bioreactors. *Biotechnology and Applied Biochemistry*, **2011**, 58, 231-42	2.8	24
1	Hypoxia enhances proliferation of mouse embryonic stem cell-derived neural stem cells. *Biotechnology and Bioengineering*, **2010**, 106, 260-70	4.9	31