

Margarida Serra

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,771
citations

23
h-index

41
g-index

57
ext. papers

2,130
ext. citations

6.2
avg, IF

4.57
L-index

#	Paper	IF	Citations
53	Process engineering of human pluripotent stem cells for clinical application. <i>Trends in Biotechnology</i> , 2012 , 30, 350-9	15.1	228
52	Human liver cell spheroids in extended perfusion bioreactor culture for repeated-dose drug testing. <i>Hepatology</i> , 2012 , 55, 1227-36	11.2	165
51	Microencapsulation technology: a powerful tool for integrating expansion and cryopreservation of human embryonic stem cells. <i>PLoS ONE</i> , 2011 , 6, e23212	3.7	127
50	Improving expansion of pluripotent human embryonic stem cells in perfused bioreactors through oxygen control. <i>Journal of Biotechnology</i> , 2010 , 148, 208-15	3.7	120
49	A multi-organ chip co-culture of neurospheres and liver equivalents for long-term substance testing. <i>Journal of Biotechnology</i> , 2015 , 205, 36-46	3.7	113
48	Distinct carbon sources affect structural and functional maturation of cardiomyocytes derived from human pluripotent stem cells. <i>Scientific Reports</i> , 2017 , 7, 8590	4.9	103
47	Metabolic Maturation of Human Pluripotent Stem Cell-Derived Cardiomyocytes by Inhibition of HIF1 β and LDHA. <i>Circulation Research</i> , 2018 , 123, 1066-1079	15.7	98
46	3D aggregate culture improves metabolic maturation of human pluripotent stem cell derived cardiomyocytes. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 630-644	4.9	70
45	Expansion of 3D human induced pluripotent stem cell aggregates in bioreactors: Bioprocess intensification and scaling-up approaches. <i>Journal of Biotechnology</i> , 2017 , 246, 81-93	3.7	54
44	Combining hypoxia and bioreactor hydrodynamics boosts induced pluripotent stem cell differentiation towards cardiomyocytes. <i>Stem Cell Reviews and Reports</i> , 2014 , 10, 786-801	6.4	54
43	Production of oncolytic adenovirus and human mesenchymal stem cells in a single-use, Vertical-Wheel bioreactor system: Impact of bioreactor design on performance of microcarrier-based cell culture processes. <i>Biotechnology Progress</i> , 2015 , 31, 1600-12	2.8	41
42	Flexible nanofilms coated with aligned piezoelectric microfibers preserve the contractility of cardiomyocytes. <i>Biomaterials</i> , 2017 , 139, 213-228	15.6	39
41	Exploring continuous and integrated strategies for the up- and downstream processing of human mesenchymal stem cells. <i>Journal of Biotechnology</i> , 2015 , 213, 97-108	3.7	38
40	Bioprocess integration for human mesenchymal stem cells: From up to downstream processing scale-up to cell proteome characterization. <i>Journal of Biotechnology</i> , 2017 , 248, 87-98	3.7	37
39	3D cultures of human neural progenitor cells: dopaminergic differentiation and genetic modification. [corrected]. <i>Methods</i> , 2012 , 56, 452-60	4.6	37
38	Integrating human stem cell expansion and neuronal differentiation in bioreactors. <i>BMC Biotechnology</i> , 2009 , 9, 82	3.5	37
37	Modeling human neural functionality in vitro: three-dimensional culture for dopaminergic differentiation. <i>Tissue Engineering - Part A</i> , 2015 , 21, 654-68	3.9	33

36	Filtration methodologies for the clarification and concentration of human mesenchymal stem cells. <i>Journal of Membrane Science</i> , 2015 , 478, 117-129	9.6	31
35	Robust Expansion of Human Pluripotent Stem Cells: Integration of Bioprocess Design With Transcriptomic and Metabolomic Characterization. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 731-42	6.9	30
34	Effective Hypothermic Storage of Human Pluripotent Stem Cell-Derived Cardiomyocytes Compatible With Global Distribution of Cells for Clinical Applications and Toxicology Testing. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 658-69	6.9	27
33	Human cardiac progenitor cell activation and regeneration mechanisms: exploring a novel myocardial ischemia/reperfusion in vitro model. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 77	8.3	26
32	Stirred bioreactors for the expansion of adult pancreatic stem cells. <i>Annals of Anatomy</i> , 2009 , 191, 104-15.	15.9	26
31	Novel culture strategy for human stem cell proliferation and neuronal differentiation. <i>Journal of Neuroscience Research</i> , 2007 , 85, 3557-66	4.4	23
30	Novel scalable 3D cell based model for in vitro neurotoxicity testing: Combining human differentiated neurospheres with gene expression and functional endpoints. <i>Journal of Biotechnology</i> , 2015 , 205, 82-92	3.7	21
29	Quantification of Metabolic Rearrangements During Neural Stem Cells Differentiation into Astrocytes by Metabolic Flux Analysis. <i>Neurochemical Research</i> , 2017 , 42, 244-253	4.6	17
28	Bioreactor-based 3D human myocardial ischemia/reperfusion in vitro model: a novel tool to unveil key paracrine factors upon acute myocardial infarction. <i>Translational Research</i> , 2020 , 215, 57-74	11	17
27	Unveiling the molecular crosstalk in a human induced pluripotent stem cell-derived cardiac model. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 1245-1252	4.9	15
26	Surface-based cryopreservation strategies for human embryonic stem cells: a comparative study. <i>Biotechnology Progress</i> , 2012 , 28, 1079-87	2.8	15
25	Next generation of heart regenerative therapies: progress and promise of cardiac tissue engineering. <i>Npj Regenerative Medicine</i> , 2021 , 6, 30	15.8	15
24	Exploring analytical proteomics platforms toward the definition of human cardiac stem cells receptome. <i>Proteomics</i> , 2015 , 15, 1332-7	4.8	13
23	Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. <i>Scientific Reports</i> , 2019 , 9, 4647	4.9	11
22	In vitro expansion of human cardiac progenitor cells: exploring [omics tools for characterization of cell-based allogeneic products. <i>Translational Research</i> , 2016 , 171, 96-110.e1-3	11	11
21	Improving washing strategies of human mesenchymal stem cells using negative mode expanded bed chromatography. <i>Journal of Chromatography A</i> , 2016 , 1429, 292-303	4.5	10
20	Human cardiac stem cells inhibit lymphocyte proliferation through paracrine mechanisms that correlate with indoleamine 2,3-dioxygenase induction and activity. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 290	8.3	10
19	Human Extracellular-Matrix Functionalization of 3D hiPSC-Based Cardiac Tissues Improves Cardiomyocyte Maturation.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 1888-1899	4.1	7

18	Unveiling Human Cardiac Fibroblast Membrane Proteome. <i>Proteomics</i> , 2018 , 18, e1700446	4.8	6
17	Toward a Microencapsulated 3D hiPSC-Derived Cardiac Microtissue for Recapitulation of Human Heart Microenvironment Features. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 580744	5.8	6
16	Impact of hydrodynamics on iPSC-derived cardiomyocyte differentiation processes. <i>Journal of Biotechnology</i> , 2018 , 287, 18-27	3.7	6
15	Advancing manufacture of human mesenchymal stem cells therapies: technological challenges in cell bioprocessing and characterization. <i>Current Opinion in Chemical Engineering</i> , 2018 , 22, 226-235	5.4	5
14	Towards human central nervous system in vitro models for preclinical research: strategies for 3D neural cell culture. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P53	2.3	4
13	Interindividual heterogeneity affects the outcome of human cardiac tissue decellularization. <i>Scientific Reports</i> , 2021 , 11, 20834	4.9	4
12	Online monitoring of hiPSC expansion and hepatic differentiation in 3D culture by dielectric spectroscopy. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3610-3617	4.9	4
11	Finding the design space of a filtration-based operation for the concentration of human pluripotent stem cells. <i>Journal of Membrane Science</i> , 2017 , 542, 399-407	9.6	3
10	Application of pulsed electric fields for the valorization of platelets with no therapeutic value for transfusion medicine 2019 , 07, 40-45		2
9	Scalable Culture Strategies for the Expansion of Patient-Derived Cancer Stem Cell Lines. <i>Stem Cells International</i> , 2019 , 2019, 8347595	5	2
8	Designing clinical-grade integrated strategies for the downstream processing of human mesenchymal stem cells. <i>BMC Proceedings</i> , 2013 , 7, P103	2.3	2
7	A Roadmap to Cardiac Tissue-Engineered Construct Preservation: Insights from Cells, Tissues, and Organs. <i>Advanced Materials</i> , 2021 , 33, e2008517	24	2
6	Bioactivity and miRNome Profiling of Native Extracellular Vesicles in Human Induced Pluripotent Stem Cell-Cardiomyocyte Differentiation.. <i>Advanced Science</i> , 2022 , e2104296	13.6	2
5	Full-length human CCBE1 production and purification: leveraging bioprocess development for high quality glycosylation attributes and functionality. <i>Journal of Biotechnology</i> , 2018 , 285, 6-14	3.7	1
4	Using High-Pressure Technology to Develop Antioxidant-Rich Extracts from Bravo de Esmolfe Apple Residues. <i>Antioxidants</i> , 2021 , 10,	7.1	1
3	Stem cells characterization: OMICS reinforcing analytics. <i>Current Opinion in Biotechnology</i> , 2021 , 71, 175-181	18.1	1
2	3D Strategies for Expansion of Human Cardiac Stem/Progenitor Cells 2018 , 63-95		
1	Bioprocessing of Human Pluripotent Stem Cells for Cell Therapy Applications. <i>Cell Engineering</i> , 2014 , 71-95		

