Margarida Serra

List of Publications by Year
in descending order

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57 papers	2,411 citations	236925 25 h-index	206112 48 g-index
57 all docs	57 docs citations	57 times ranked	3361 citing authors

#	Article	IF	Citations
1	Process engineering of human pluripotent stem cells for clinical application. Trends in Biotechnology, 2012, 30, 350-359.	9.3	271
2	Human liver cell spheroids in extended perfusion bioreactor culture for repeated-dose drug testing. Hepatology, 2012, 55, 1227-1236.	7.3	195
3	Distinct carbon sources affect structural and functional maturation of cardiomyocytes derived from human pluripotent stem cells. Scientific Reports, 2017, 7, 8590.	3.3	173
4	Metabolic Maturation of Human Pluripotent Stem Cell-Derived Cardiomyocytes by Inhibition of HIF1Î± and LDHA. Circulation Research, 2018, 123, 1066-1079.	4.5	159
5	Microencapsulation Technology: A Powerful Tool for Integrating Expansion and Cryopreservation of Human Embryonic Stem Cells. PLoS ONE, 2011, 6, e23212.	2.5	151
6	Improving expansion of pluripotent human embryonic stem cells in perfused bioreactors through oxygen control. Journal of Biotechnology, 2010, 148, 208-215.	3.8	135
7	A multi-organ chip co-culture of neurospheres and liver equivalents for long-term substance testing. Journal of Biotechnology, 2015, 205, 36-46.	3.8	124
8	3D aggregate culture improves metabolic maturation of human pluripotent stem cell derived cardiomyocytes. Biotechnology and Bioengineering, 2018, 115, 630-644.	3.3	108
9	Expansion of 3D human induced pluripotent stem cell aggregates in bioreactors: Bioprocess intensification and scaling-up approaches. Journal of Biotechnology, 2017, 246, 81-93.	3.8	77
10	Combining Hypoxia and Bioreactor Hydrodynamics Boosts Induced Pluripotent Stem Cell Differentiation Towards Cardiomyocytes. Stem Cell Reviews and Reports, 2014, 10, 786-801.	5.6	65
11	Flexible nanofilms coated with aligned piezoelectric microfibers preserve the contractility of cardiomyocytes. Biomaterials, 2017, 139, 213-228.	11.4	62
12	Bioprocess integration for human mesenchymal stem cells: From up to downstream processing scale-up to cell proteome characterization. Journal of Biotechnology, 2017, 248, 87-98.	3.8	61
13	Production of oncolytic adenovirus and human mesenchymal stem cells in a singleâ€use, Verticalâ€Wheel bioreactor system: Impact of bioreactor design on performance of microcarrierâ€based cell culture processes. Biotechnology Progress, 2015, 31, 1600-1612.	2.6	60
14	Next generation of heart regenerative therapies: progress and promise of cardiac tissue engineering. Npj Regenerative Medicine, 2021, 6, 30.	5.2	49
15	Exploring continuous and integrated strategies for the up- and downstream processing of human mesenchymal stem cells. Journal of Biotechnology, 2015, 213, 97-108.	3.8	47
16	Modeling Human Neural Functionality In Vitro: Three-Dimensional Culture for Dopaminergic Differentiation. Tissue Engineering - Part A, 2015, 21, 654-668.	3.1	44
17	Integrating human stem cell expansion and neuronal differentiation in bioreactors. BMC Biotechnology, 2009, 9, 82.	3.3	40
18	Generation and genetic modification of 3D cultures of human dopaminergic neurons derived from neural progenitor cells. Methods, 2012, 56, 452-460.	3.8	40

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19	Effective Hypothermic Storage of Human Pluripotent Stem Cell-Derived Cardiomyocytes Compatible With Global Distribution of Cells for Clinical Applications and Toxicology Testing. Stem Cells Translational Medicine, 2016, 5, 658-669.	3.3	40
20	Filtration methodologies for the clarification and concentration of human mesenchymal stem cells. Journal of Membrane Science, 2015, 478, 117-129.	8.2	38
21	Human cardiac progenitor cell activation and regeneration mechanisms: exploring a novel myocardial ischemia/reperfusion in vitro model. Stem Cell Research and Therapy, 2019, 10, 77.	5.5	37
22	Bioreactor-based 3D human myocardial ischemia/reperfusion in vitro model: a novel tool to unveil key paracrine factors upon acute myocardial infarction. Translational Research, 2020, 215, 57-74.	5.0	36
23	Robust Expansion of Human Pluripotent Stem Cells: Integration of Bioprocess Design With Transcriptomic and Metabolomic Characterization. Stem Cells Translational Medicine, 2015, 4, 731-742.	3.3	35
24	Stirred bioreactors for the expansion of adult pancreatic stem cells. Annals of Anatomy, 2009, 191, 104-115.	1.9	32
25	Quantification of Metabolic Rearrangements During Neural Stem Cells Differentiation into Astrocytes by Metabolic Flux Analysis. Neurochemical Research, 2017, 42, 244-253.	3.3	28
26	Unveiling the molecular crosstalk in a human induced pluripotent stem cellâ€derived cardiac model. Biotechnology and Bioengineering, 2019, 116, 1245-1252.	3.3	27
27	Novel culture strategy for human stem cell proliferation and neuronal differentiation. Journal of Neuroscience Research, 2007, 85, 3557-3566.	2.9	25
28	Novel scalable 3D cell based model for in vitro neurotoxicity testing: Combining human differentiated neurospheres with gene expression and functional endpoints. Journal of Biotechnology, 2015, 205, 82-92.	3.8	25
29	Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. Scientific Reports, 2019, 9, 4647.	3.3	17
30	Human Extracellular-Matrix Functionalization of 3D hiPSC-Based Cardiac Tissues Improves Cardiomyocyte Maturation. ACS Applied Bio Materials, 2021, 4, 1888-1899.	4.6	17
31	Surfaceâ€based cryopreservation strategies for human embryonic stem cells: A comparative study. Biotechnology Progress, 2012, 28, 1079-1087.	2.6	16
32	Interindividual heterogeneity affects the outcome of human cardiac tissue decellularization. Scientific Reports, 2021, 11, 20834.	3.3	16
33	Exploring analytical proteomics platforms toward the definition of human cardiac stem cells receptome. Proteomics, 2015, 15, 1332-1337.	2.2	14
34	Bioactivity and miRNome Profiling of Native Extracellular Vesicles in Human Induced Pluripotent Stem Cellâ€Cardiomyocyte Differentiation. Advanced Science, 2022, 9, e2104296.	11.2	14
35	InÂvitro expansion of human cardiac progenitor cells: exploring 'omics tools for characterization of cell-based allogeneic products. Translational Research, 2016, 171, 96-110.e3.	5.0	13
36	Improving washing strategies of human mesenchymal stem cells using negative mode expanded bed chromatography. Journal of Chromatography A, 2016, 1429, 292-303.	3.7	12

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37	Hallmarks of the human intestinal microbiome on liver maturation and function. Journal of Hepatology, 2022, 76, 694-725.	3.7	12
38	Toward a Microencapsulated 3D hiPSC-Derived in vitro Cardiac Microtissue for Recapitulation of Human Heart Microenvironment Features. Frontiers in Bioengineering and Biotechnology, 2020, 8, 580744.	4.1	11
39	Online monitoring of hiPSC expansion and hepatic differentiation in 3D culture by dielectric spectroscopy. Biotechnology and Bioengineering, 2021, 118, 3610-3617.	3.3	11
40	Human cardiac stem cells inhibit lymphocyte proliferation through paracrine mechanisms that correlate with indoleamine 2,3-dioxygenase induction and activity. Stem Cell Research and Therapy, 2018, 9, 290.	5.5	10
41	Advancing manufacture of human mesenchymal stem cells therapies: technological challenges in cell bioprocessing and characterization. Current Opinion in Chemical Engineering, 2018, 22, 226-235.	7.8	9
42	Unveiling Human Cardiac Fibroblast Membrane Proteome. Proteomics, 2018, 18, e1700446.	2.2	8
43	Impact of hydrodynamics on iPSC-derived cardiomyocyte differentiation processes. Journal of Biotechnology, 2018, 287, 18-27.	3.8	7
44	Stem cells characterization: OMICS reinforcing analytics. Current Opinion in Biotechnology, 2021, 71, 175-181.	6.6	6
45	Towards human central nervous system in vitro models for preclinical research: strategies for 3D neural cell culture. BMC Proceedings, 2011, 5, P53.	1.6	5
46	Pulsed Electric Fields for Valorization of Platelets with No Therapeutic Value towards a High Biomedical Potential Productâ€"A Proof of Concept. Applied Sciences (Switzerland), 2022, 12, 5773.	2.5	5
47	Scalable Culture Strategies for the Expansion of Patient-Derived Cancer Stem Cell Lines. Stem Cells International, 2019, 2019, 1-7.	2.5	4
48	A Roadmap to Cardiac Tissueâ€Engineered Construct Preservation: Insights from Cells, Tissues, and Organs. Advanced Materials, 2021, 33, 2008517.	21.0	4
49	Using High-Pressure Technology to Develop Antioxidant-Rich Extracts from Bravo de Esmolfe Apple Residues. Antioxidants, 2021, 10, 1469.	5.1	4
50	Finding the design space of a filtration-based operation for the concentration of human pluripotent stem cells. Journal of Membrane Science, 2017, 542, 399-407.	8.2	3
51	Application of pulsed electric fields for the valorization of platelets with no therapeutic value for transfusion medicine. Technology, 2019, 07, 40-45.	1.4	3
52	Designing clinical-grade integrated strategies for the downstream processing of human mesenchymal stem cells. BMC Proceedings, 2013, 7, P103.	1.6	2
53	Full-length human CCBE1 production and purification: leveraging bioprocess development for high quality glycosylation attributes and functionality. Journal of Biotechnology, 2018, 285, 6-14.	3.8	2
54	Expression of Extracellular Vesicle PIWI-Interacting RNAs Throughout hiPSC-Cardiomyocyte Differentiation. Frontiers in Physiology, 0, 13, .	2.8	2

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55	Corrigendum to â€œGeneration and genetic modification of 3D cultures of human dopaminergic neurons derived from neural progenitor cellsâ€•[Methods 56 (2012) 452â€“460]. Methods, 2012, 57, 138.	3.8	0
56	Bioprocessing of Human Pluripotent Stem Cells for Cell Therapy Applications. Cell Engineering, 2014, , 71-95.	0.4	0
57	3D Strategies for Expansion of Human Cardiac Stem/Progenitor Cells. , 2018, , 63-95.		0