

Tiago G Fernandes

List of Publications by Citations

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53
papers

1,247
citations

19
h-index

35
g-index

61
ext. papers

1,460
ext. citations

4.9
avg, IF

4.53
L-index

#	Paper	IF	Citations
53	High-throughput cellular microarray platforms: applications in drug discovery, toxicology and stem cell research. <i>Trends in Biotechnology</i> , 2009 , 27, 342-9	15.1	218
52	Stem cell cultivation in bioreactors. <i>Biotechnology Advances</i> , 2011 , 29, 815-29	17.8	158
51	Mouse embryonic stem cell expansion in a microcarrier-based stirred culture system. <i>Journal of Biotechnology</i> , 2007 , 132, 227-36	3.7	127
50	Three-dimensional cell culture microarray for high-throughput studies of stem cell fate. <i>Biotechnology and Bioengineering</i> , 2010 , 106, 106-18	4.9	86
49	On-chip, cell-based microarray immunofluorescence assay for high-throughput analysis of target proteins. <i>Analytical Chemistry</i> , 2008 , 80, 6633-9	7.8	66
48	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. <i>Scientific Reports</i> , 2019 , 9, 9229	4.9	46
47	Defined Essential 8 \square Medium and Vitronectin Efficiently Support Scalable Xeno-Free Expansion of Human Induced Pluripotent Stem Cells in Stirred Microcarrier Culture Systems. <i>PLoS ONE</i> , 2016 , 11, e0151264	3.7	43
46	Different stages of pluripotency determine distinct patterns of proliferation, metabolism, and lineage commitment of embryonic stem cells under hypoxia. <i>Stem Cell Research</i> , 2010 , 5, 76-89	1.6	39
45	Towards Multi-Organoid Systems for Drug Screening Applications. <i>Bioengineering</i> , 2018 , 5,	5.3	34
44	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. <i>Journal of Biotechnology</i> , 2016 , 234, 71-82	3.7	33
43	Spatial and temporal control of cell aggregation efficiently directs human pluripotent stem cells towards neural commitment. <i>Biotechnology Journal</i> , 2015 , 10, 1612-24	5.6	28
42	Stem cell bioprocessing for regenerative medicine. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 34-47	3.5	26
41	Neural commitment of human pluripotent stem cells under defined conditions recapitulates neural development and generates patient-specific neural cells. <i>Biotechnology Journal</i> , 2015 , 10, 1578-88	5.6	23
40	Kinetic and metabolic analysis of mouse embryonic stem cell expansion under serum-free conditions. <i>Biotechnology Letters</i> , 2010 , 32, 171-9	3	23
39	Biophysical study of human induced Pluripotent Stem Cell-Derived cardiomyocyte structural maturation during long-term culture. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 499, 611-617	3.4	22
38	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 492-503	3.5	21
37	Scalable culture of human induced pluripotent cells on microcarriers under xeno-free conditions using single-use vertical-wheel \square bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 3597-3606	3.5	20

36	Scalable expansion of human-induced pluripotent stem cells in xeno-free microcarriers. <i>Methods in Molecular Biology</i> , 2015 , 1283, 23-9	1.4	20
35	Clinical-scale purification of pluripotent stem cell derivatives for cell-based therapies. <i>Biotechnology Journal</i> , 2015 , 10, 1103-14	5.6	19
34	New insights into the mechanisms of embryonic stem cell self-renewal under hypoxia: a multifactorial analysis approach. <i>PLoS ONE</i> , 2012 , 7, e38963	3.7	19
33	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 70	5.8	18
32	Integrated platform for production and purification of human pluripotent stem cell-derived neural precursors. <i>Stem Cell Reviews and Reports</i> , 2014 , 10, 151-61	6.4	16
31	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. <i>Stem Cells International</i> , 2019 , 2019, 4508470	5	15
30	Production of Human Pluripotent Stem Cell-Derived Hepatic Cell Lineages and Liver Organoids: Current Status and Potential Applications. <i>Bioengineering</i> , 2020 , 7,	5.3	15
29	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 610427	5.7	15
28	Scaling up a chemically-defined aggregate-based suspension culture system for neural commitment of human pluripotent stem cells. <i>Biotechnology Journal</i> , 2016 , 11, 1628-1638	5.6	14
27	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	13
26	Angelman syndrome: a journey through the brain. <i>FEBS Journal</i> , 2020 , 287, 2154-2175	5.7	12
25	A scale out approach towards neural induction of human induced pluripotent stem cells for neurodevelopmental toxicity studies. <i>Toxicology Letters</i> , 2018 , 294, 51-60	4.4	12
24	Extracellular Vesicles in CNS Developmental Disorders. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
23	Transcriptome profiling of human pluripotent stem cell-derived cerebellar organoids reveals faster commitment under dynamic conditions. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2781-2803	4.9	6
22	Modeling Rett Syndrome with Human Pluripotent Stem Cells: Mechanistic Outcomes and Future Clinical Perspectives. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
21	Multifactorial Modeling Reveals a Dominant Role of Wnt Signaling in Lineage Commitment of Human Pluripotent Stem Cells. <i>Bioengineering</i> , 2019 , 6,	5.3	3
20	Natural Multimerization Rules the Performance of Affinity-Based Physical Hydrogels for Stem Cell Encapsulation and Differentiation. <i>Biomacromolecules</i> , 2020 , 21, 3081-3091	6.9	3
19	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. <i>Methods in Molecular Biology</i> , 2018 , 1771, 69-81	1.4	3

18	Purification of human induced pluripotent stem cell-derived neural precursors using magnetic activated cell sorting. <i>Methods in Molecular Biology</i> , 2015 , 1283, 137-45	1.4	3
17	Bioreactors for stem cell culture 2013 , 69-114		3
16	Affinity-Triggered Assemblies Based on a Designed Peptide-Peptide Affinity Pair. <i>Biotechnology Journal</i> , 2019 , 14, e1800559	5.6	2
15	Engineering Organoids for Modeling of Phenylketonuria.. <i>Frontiers in Molecular Neuroscience</i> , 2021 , 14, 787242	6.1	2
14	Enrichment and Separation Technologies for Stem Cell-Based Therapies 2016 , 199-213		1
13	Stem cell separation 2013 , 115-141		1
12	Microscale technologies for stem cell culture 2013 , 143-175		1
11	Advanced microtechnologies for high-throughput screening 2020 , 149-175		0
10	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020 , 171, 189-224	1.7	0
9	A Dynamic 3D Aggregate-Based System for the Successful Expansion and Neural Induction of Human Pluripotent Stem Cells.. <i>Frontiers in Cellular Neuroscience</i> , 2022 , 16, 838217	6.1	0
8	3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2020 , 1	1.4	
7	Stem-Cell Microscale Platforms for Toxicology Screening 2018 , 285-308		
6	Characteristics of stem cells 2013 , 1-32		
5	Engineering at the microscale: A step towards single-cell analysis of human pluripotent stem cells. <i>Biotechnology Journal</i> , 2015 , 10, 1511-2	5.6	
4	Stem cell culture: mimicking the stem cell niche in vitro 2013 , 33-68		
3	Stem cells and regenerative medicine 2013 , 177-206		
2	Pluripotent stem cell biology and engineering 2020 , 1-31		
1	Conclusions and closing remarks 2020 , 259-261		

