

Tiago G Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,633
citations

304602

22
h-index

302012

39
g-index

61
all docs

61
docs citations

61
times ranked

2279
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput cellular microarray platforms: applications in drug discovery, toxicology and stem cell research. <i>Trends in Biotechnology</i> , 2009, 27, 342-349.	4.9	255
2	Stem cell cultivation in bioreactors. <i>Biotechnology Advances</i> , 2011, 29, 815-829.	6.0	183
3	Mouse embryonic stem cell expansion in a microcarrier-based stirred culture system. <i>Journal of Biotechnology</i> , 2007, 132, 227-236.	1.9	145
4	Three-dimensional cell culture microarray for high-throughput studies of stem cell fate. <i>Biotechnology and Bioengineering</i> , 2010, 106, 106-118.	1.7	92
5	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.	1.6	77
6	On-Chip, Cell-Based Microarray Immunofluorescence Assay for High-Throughput Analysis of Target Proteins. <i>Analytical Chemistry</i> , 2008, 80, 6633-6639.	3.2	72
7	Defined Essential 8 μ M 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.	1.1	57
8	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.	1.9	51
9	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 610427.	1.8	49
10	Towards Multi-Organoid Systems for Drug Screening Applications. <i>Bioengineering</i> , 2018, 5, 49.	1.6	45
11	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.	0.3	42
12	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.	2.0	39
13	Scalable culture of human induced pluripotent cells on microcarriers under xeno-free conditions using single-use vertical-wheel μ bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3597-3606.	1.6	36
14	Spatial and temporal control of cell aggregation efficiently directs human pluripotent stem cells towards neural commitment. <i>Biotechnology Journal</i> , 2015, 10, 1612-1624.	1.8	35
15	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.	1.0	35
16	Stem cell bioprocessing for regenerative medicine. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 34-47.	1.6	30
17	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, 1578-1588.	1.8	28
18	Angelman syndrome: a journey through the brain. <i>FEBS Journal</i> , 2020, 287, 2154-2175.	2.2	27

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19	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.	1.6	26
20	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	26
21	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. <i>Stem Cells International</i> , 2019, 2019, 1-17.	1.2	25
22	Kinetic and metabolic analysis of mouse embryonic stem cell expansion under serum-free conditions. <i>Biotechnology Letters</i> , 2010, 32, 171-179.	1.1	24
23	Scalable Expansion of Human-Induced Pluripotent Stem Cells in Xeno-Free Microcarriers. <i>Methods in Molecular Biology</i> , 2014, 1283, 23-29.	0.4	24
24	New Insights into the Mechanisms of Embryonic Stem Cell Self-Renewal under Hypoxia: A Multifactorial Analysis Approach. <i>PLoS ONE</i> , 2012, 7, e38963.	1.1	23
25	Clinical-scale purification of pluripotent stem cell derivatives for cell-based therapies. <i>Biotechnology Journal</i> , 2015, 10, 1103-1114.	1.8	23
26	Production of Human Pluripotent Stem Cell-Derived Hepatic Cell Lineages and Liver Organoids: Current Status and Potential Applications. <i>Bioengineering</i> , 2020, 7, 36.	1.6	20
27	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.	1.7	20
28	Integrated Platform for Production and Purification of Human Pluripotent Stem Cell-Derived Neural Precursors. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 151-161.	5.6	18
29	Extracellular Vesicles in CNS Developmental Disorders. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9428.	1.8	18
30	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.	1.8	16
31	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.	0.4	15
32	Modeling Rett Syndrome with Human Pluripotent Stem Cells: Mechanistic Outcomes and Future Clinical Perspectives. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3751.	1.8	10
33	Multifactorial Modeling Reveals a Dominant Role of Wnt Signaling in Lineage Commitment of Human Pluripotent Stem Cells. <i>Bioengineering</i> , 2019, 6, 71.	1.6	6
34	Engineering Organoids for in vitro Modeling of Phenylketonuria. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 787242.	1.4	6
35	Microscale technologies for stem cell culture. , 2013, , 143-175.		4
36	Purification of Human Induced Pluripotent Stem Cell-Derived Neural Precursors Using Magnetic Activated Cell Sorting. <i>Methods in Molecular Biology</i> , 2014, 1283, 137-145.	0.4	4

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37	Bioreactors for stem cell culture. , 2013, , 69-114.		3
38	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. Methods in Molecular Biology, 2018, 1771, 69-81.	0.4	3
39	Natural Multimerization Rules the Performance of Affinity-Based Physical Hydrogels for Stem Cell Encapsulation and Differentiation. Biomacromolecules, 2020, 21, 3081-3091.	2.6	3
40	Affinity-Triggered Assemblies Based on a Designed Peptide-Peptide Affinity Pair. Biotechnology Journal, 2019, 14, e1800559.	1.8	2
41	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. Advances in Biochemical Engineering/Biotechnology, 2019, 171, 189-224.	0.6	2
42	A Dynamic 3D Aggregate-Based System for the Successful Expansion and Neural Induction of Human Pluripotent Stem Cells. Frontiers in Cellular Neuroscience, 2022, 16, 838217.	1.8	2
43	Effect of hypoxia on proliferation and neural commitment of embryonic stem cells at different stages of pluripotency. , 2011, , .		1
44	Stem cell separation. , 2013, , 115-141.		1
45	Enrichment and Separation Technologies for Stem Cell-Based Therapies. , 2016, , 199-213.		1
46	Advanced microtechnologies for high-throughput screening. , 2020, , 149-175.		1
47	3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2020, , 1.	0.4	1
48	Exploring embryonic stem cell fate using cellular microarrays. , 2011, , .		0
49	Characteristics of stem cells. , 2013, , 1-32.		0
50	Stem cell culture: mimicking the stem cell niche in vitro. , 2013, , 33-68.		0
51	Stem cells and regenerative medicine. , 2013, , 177-206.		0
52	Engineering at the microscale: A step towards single-cell analysis of human pluripotent stem cells. Biotechnology Journal, 2015, 10, 1511-1512.	1.8	0
53	Engineering Cell Systems. Stem Cells International, 2019, 2019, 1-3.	1.2	0
54	Pluripotent stem cell biology and engineering. , 2020, , 1-31.		0

#	ARTICLE	IF	CITATIONS
55	Conclusions and closing remarks. , 2020, , 259-261.		0
56	Engineering strategies for regenerative medicine. , 2020, , ix-xii.		0
57	Editorial: Stem Cell Systems Bioengineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 693107.	2.0	0