

# Tiago G Fernandes

## List of Publications by Year in Descending Order

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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

1,247  
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	A Dynamic 3D Aggregate-Based System for the Successful Expansion and Neural Induction of Human Pluripotent Stem Cells.. <i>Frontiers in Cellular Neuroscience</i> , <b>2022</b> , 16, 838217	6.1	0
52	Engineering Organoids for Modeling of Phenylketonuria.. <i>Frontiers in Molecular Neuroscience</i> , <b>2021</b> , 14, 787242	6.1	2
51	Modeling Rett Syndrome with Human Pluripotent Stem Cells: Mechanistic Outcomes and Future Clinical Perspectives. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
50	Transcriptome profiling of human pluripotent stem cell-derived cerebellar organoids reveals faster commitment under dynamic conditions. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2781-2803	4.9	6
49	Extracellular Vesicles in CNS Developmental Disorders. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	10
48	3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , <b>2020</b> , 1	1.4	
47	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	13
46	Natural Multimerization Rules the Performance of Affinity-Based Physical Hydrogels for Stem Cell Encapsulation and Differentiation. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3081-3091	6.9	3
45	Angelman syndrome: a journey through the brain. <i>FEBS Journal</i> , <b>2020</b> , 287, 2154-2175	5.7	12
44	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 70	5.8	18
43	Production of Human Pluripotent Stem Cell-Derived Hepatic Cell Lineages and Liver Organoids: Current Status and Potential Applications. <i>Bioengineering</i> , <b>2020</b> , 7,	5.3	15
42	Pluripotent stem cell biology and engineering <b>2020</b> , 1-31		
41	Advanced microtechnologies for high-throughput screening <b>2020</b> , 149-175		0
40	Conclusions and closing remarks <b>2020</b> , 259-261		
39	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 610427	5.7	15
38	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2020</b> , 171, 189-224	1.7	0
37	Multifactorial Modeling Reveals a Dominant Role of Wnt Signaling in Lineage Commitment of Human Pluripotent Stem Cells. <i>Bioengineering</i> , <b>2019</b> , 6,	5.3	3

36	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. <i>Scientific Reports</i> , <b>2019</b> , 9, 9229	4.9	46
35	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. <i>Stem Cells International</i> , <b>2019</b> , 2019, 4508470	5	15
34	Affinity-Triggered Assemblies Based on a Designed Peptide-Peptide Affinity Pair. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800559	5.6	2
33	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1771, 69-81	1.4	3
32	Biophysical study of human induced Pluripotent Stem Cell-Derived cardiomyocyte structural maturation during long-term culture. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 499, 611-617	3.4	22
31	Stem-Cell Microscale Platforms for Toxicology Screening <b>2018</b> , 285-308		
30	Towards Multi-Organoid Systems for Drug Screening Applications. <i>Bioengineering</i> , <b>2018</b> , 5,	5.3	34
29	Scalable culture of human induced pluripotent cells on microcarriers under xeno-free conditions using single-use vertical-wheel bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3597-3606	3.5	20
28	A scale out approach towards neural induction of human induced pluripotent stem cells for neurodevelopmental toxicity studies. <i>Toxicology Letters</i> , <b>2018</b> , 294, 51-60	4.4	12
27	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 492-503	3.5	21
26	Enrichment and Separation Technologies for Stem Cell-Based Therapies <b>2016</b> , 199-213		1
25	Scaling up a chemically-defined aggregate-based suspension culture system for neural commitment of human pluripotent stem cells. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 1628-1638	5.6	14
24	Defined Essential 8 Medium and Vitronectin Efficiently Support Scalable Xeno-Free Expansion of Human Induced Pluripotent Stem Cells in Stirred Microcarrier Culture Systems. <i>PLoS ONE</i> , <b>2016</b> , 11, e0151264	3.7	43
23	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. <i>Journal of Biotechnology</i> , <b>2016</b> , 234, 71-82	3.7	33
22	Spatial and temporal control of cell aggregation efficiently directs human pluripotent stem cells towards neural commitment. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1612-24	5.6	28
21	Clinical-scale purification of pluripotent stem cell derivatives for cell-based therapies. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1103-14	5.6	19
20	Scalable expansion of human-induced pluripotent stem cells in xeno-free microcarriers. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1283, 23-9	1.4	20
19	Engineering at the microscale: A step towards single-cell analysis of human pluripotent stem cells. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1511-2	5.6	

18	Neural commitment of human pluripotent stem cells under defined conditions recapitulates neural development and generates patient-specific neural cells. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1578-88	5.6	23
17	Purification of human induced pluripotent stem cell-derived neural precursors using magnetic activated cell sorting. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1283, 137-45	1.4	3
16	Integrated platform for production and purification of human pluripotent stem cell-derived neural precursors. <i>Stem Cell Reviews and Reports</i> , <b>2014</b> , 10, 151-61	6.4	16
15	Stem cell bioprocessing for regenerative medicine. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 34-47	3.5	26
14	Characteristics of stem cells <b>2013</b> , 1-32		
13	Stem cell separation <b>2013</b> , 115-141		1
12	Microscale technologies for stem cell culture <b>2013</b> , 143-175		1
11	Stem cell culture: mimicking the stem cell niche in vitro <b>2013</b> , 33-68		
10	Bioreactors for stem cell culture <b>2013</b> , 69-114		3
9	Stem cells and regenerative medicine <b>2013</b> , 177-206		
8	New insights into the mechanisms of embryonic stem cell self-renewal under hypoxia: a multifactorial analysis approach. <i>PLoS ONE</i> , <b>2012</b> , 7, e38963	3.7	19
7	Stem cell cultivation in bioreactors. <i>Biotechnology Advances</i> , <b>2011</b> , 29, 815-29	17.8	158
6	Kinetic and metabolic analysis of mouse embryonic stem cell expansion under serum-free conditions. <i>Biotechnology Letters</i> , <b>2010</b> , 32, 171-9	3	23
5	Different stages of pluripotency determine distinct patterns of proliferation, metabolism, and lineage commitment of embryonic stem cells under hypoxia. <i>Stem Cell Research</i> , <b>2010</b> , 5, 76-89	1.6	39
4	Three-dimensional cell culture microarray for high-throughput studies of stem cell fate. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 106-18	4.9	86
3	High-throughput cellular microarray platforms: applications in drug discovery, toxicology and stem cell research. <i>Trends in Biotechnology</i> , <b>2009</b> , 27, 342-9	15.1	218
2	On-chip, cell-based microarray immunofluorescence assay for high-throughput analysis of target proteins. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6633-9	7.8	66
1	Mouse embryonic stem cell expansion in a microcarrier-based stirred culture system. <i>Journal of Biotechnology</i> , <b>2007</b> , 132, 227-36	3.7	127

