David A Brafman

List of Publications by Year
in descending order

48	1,562	304743	315739
papers	citations	22 h-index	38 g-index

52	52	52	2742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	APOE4 exacerbates synapse loss and neurodegeneration in Alzheimerâ€™s disease patient iPSC-derived cerebral organoids. Nature Communications, 2020, 11, 5540.	12.8	172
2	Long-term human pluripotent stem cell self-renewal on synthetic polymer surfaces. Biomaterials, 2010, 31, 9135-9144.	11.4	163
3	The Impact of Chromatin Dynamics on Cas9-Mediated Genome Editing in Human Cells. ACS Synthetic Biology, 2017, 6, 428-438.	3.8	124
4	PNIPAAm-based biohybrid injectable hydrogel for cardiac tissue engineering. Acta Biomaterialia, 2016, 32, 10-23.	8.3	91
5	Defining Long-Term Maintenance Conditions of Human Embryonic Stem Cells With Arrayed Cellular Microenvironment Technology. Stem Cells and Development, 2009, 18, 1141-1154.	2.1	69
6	Nonsense-Mediated RNA Decay Influences Human Embryonic Stem Cell Fate. Stem Cell Reports, 2016, 6, 844-857.	4.8	68
7	Endogenous WNT Signaling Regulates hPSC-Derived Neural Progenitor Cell Heterogeneity and Specifies Their Regional Identity. Stem Cell Reports, 2014, 3, 1015-1028.	4.8	59
8	Wnt/Î²â€catenin signaling during early vertebrate neural development. Developmental Neurobiology, 2017, 77, 1239-1259.	3.0	58
9	Engineering anisotropic human stem cell-derived three-dimensional cardiac tissue on-a-chip. Biomaterials, 2020, 256, 120195.	11.4	52
10	Nanoâ€Enabled Approaches for Stem Cellâ€Based Cardiac Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 1533-1553.	7.6	50
11	Arrayed cellular microenvironments for identifying culture and differentiation conditions for stem, primary and rare cell populations. Nature Protocols, 2012, 7, 703-717.	12.0	49
12	The WNT target SP5 negatively regulates WNT transcriptional programs in human pluripotent stem cells. Nature Communications, 2017, 8, 1034.	12.8	49
13	Investigating the role of the extracellular environment in modulating hepatic stellate cell biology with arrayed combinatorial microenvironments. Integrative Biology (United Kingdom), 2009, 1, 513.	1.3	48
14	Constructing stem cell microenvironments using bioengineering approaches. Physiological Genomics, 2013, 45, 1123-1135.	2.3	43
15	May I Cut in? Gene Editing Approaches in Human Induced Pluripotent Stem Cells. Cells, 2017, 6, 5.	4.1	38
16	Biomaterial Approaches for Stem Cell-Based Myocardial Tissue Engineering. Biomarker Insights, 2015, 10s1, BMI.S20313.	2.5	35
17	Analysis of SOX2-Expressing Cell Populations Derived from Human Pluripotent Stem Cells. Stem Cell Reports, 2013, 1, 464-478.	4.8	33
18	A transient reporter for editing enrichment (TREE) in human cells. Nucleic Acids Research, 2019, 47, e120-e120.	14.5	33

#	Article	IF	Citations
19	Prime Editing Guide RNA Design Automation Using PINE-CONE. ACS Synthetic Biology, 2021, 10, 422-427.	3.8	30
20	A Rare Human Syndrome Provides Genetic Evidence that WNT Signaling Is Required for Reprogramming of Fibroblasts to Induced Pluripotent Stem Cells. Cell Reports, 2014, 9, 1770-1780.	6.4	29
21	Apolipoprotein E regulates lipid metabolism and Î±-synuclein pathology in human iPSC-derived cerebral organoids. Acta Neuropathologica, 2021, 142, 807-825.	7.7	25
22	Generation of an expandable intermediate mesoderm restricted progenitor cell line from human pluripotent stem cells. ELife, 2015, 4, .	6.0	25
23	Using human induced pluripotent stem cells (hiPSCs) to investigate the mechanisms by which Apolipoprotein E (APOE) contributes to Alzheimerâ€™s disease (AD) risk. Neurobiology of Disease, 2020, 138, 104788.	4.4	23
24	A chemically defined substrate for the expansion and neuronal differentiation of human pluripotent stem cell-derived neural progenitor cells. Stem Cell Research, 2015, 15, 75-87.	0.7	18
25	A robust vitronectin-derived peptide for the scalable long-term expansion and neuronal differentiation of human pluripotent stem cell (hPSC)-derived neural progenitor cells (hNPCs). Acta Biomaterialia, 2017, 48, 120-130.	8.3	18
26	BIG-TREE: Base-Edited Isogenic hPSC Line Generation Using a Transient Reporter for Editing Enrichment. Stem Cell Reports, 2020, 14, 184-191.	4.8	18
27	Characterizing Direct-to-Consumer Stem Cell Businesses in the Southwest United States. Stem Cell Reports, 2019, 13, 247-253.	4.8	17
28	Generation, Expansion, and Differentiation of Human Pluripotent Stem Cell (hPSC) Derived Neural Progenitor Cells (NPCs). Methods in Molecular Biology, 2014, 1212, 87-102.	0.9	16
29	RNA-Guided Recombinase-Cas9 Fusion Targets Genomic DNA Deletion and Integration. CRISPR Journal, 2019, 2, 209-222.	2.9	14
30	APOE2 mitigates disease-related phenotypes in an isogenic hiPSC-based model of Alzheimerâ€™s disease. Molecular Psychiatry, 2021, 26, 5715-5732.	7.9	13
31	Guidelines for establishing a 3-D printing biofabrication laboratory. Biotechnology Advances, 2020, 45, 107652.	11.7	11
32	A Cas9-mediated adenosine transient reporter enables enrichment of ABE-targeted cells. BMC Biology, 2020, 18, 193.	3.8	10
33	An integrated biomanufacturing platform for the large-scale expansion and neuronal differentiation of human pluripotent stem cell-derived neural progenitor cells. Acta Biomaterialia, 2018, 74, 168-179.	8.3	9
34	Weighing up the evidence used by direct-to-consumer stem cell businesses. Stem Cell Reports, 2021, 16, 2852-2860.	4.8	9
35	Cytosine and adenosine base editing in human pluripotent stem cells using transient reporters for editing enrichment. Nature Protocols, 2021, 16, 3596-3624.	12.0	7
36	A Defined and Scalable Peptide-Based Platform for the Generation of Human Pluripotent Stem Cell-Derived Astrocytes. ACS Biomaterials Science and Engineering, 2020, 6, 3477-3490.	5.2	6

#	Article	IF	Citations
37	Generation of Regionally Specific Neural Progenitor Cells (NPCs) and Neurons from Human Pluripotent Stem Cells (hPSCs). Methods in Molecular Biology, 2016, 1516, 121-144.	0.9	5
38	Generation and characterization of human induced pluripotent stem cell (hiPSC) lines from an Alzheimer's disease (ASUi001-A) and non-demented control (ASUi002-A) patient homozygous for the Apolipoprotein e4 (APOE4) risk variant. Stem Cell Research, 2017, 24, 160-163.	0.7	5
39	The Emergence of Model Systems to Investigate the Link Between Traumatic Brain Injury and Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2021, 13, 813544.	3.4	5
40	Generation and characterization of human induced pluripotent stem cell (hiPSC) lines from an Alzheimer's disease (ASUi003-A) and non-demented control (ASUi004-A) patient homozygous for the Apolipoprotein e4 (APOE4) risk variant. Stem Cell Research, 2017, 25, 266-269.	0.7	4
41	Generation and characterization of two human induced pluripotent stem cell (hiPSC) lines homozygous for the Apolipoprotein e4 (APOE4) risk variantâ€”Alzheimer's disease (ASUi005-A) and healthy non-demented control (ASUi006-A). Stem Cell Research, 2018, 32, 145-149.	0.7	3
42	Tissue Engineering: Nanoâ€Enabled Approaches for Stem Cellâ€Based Cardiac Tissue Engineering(Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	7.6	2
43	Human Autopsy-Derived Scalp Fibroblast Biobanking for Age-Related Neurodegenerative Disease Research. Cells, 2020, 9, 2383.	4.1	2
44	Methods to Manipulate and Monitor Wnt Signaling in Human Pluripotent Stem Cells. Methods in Molecular Biology, 2016, 1481, 161-181.	0.9	1
45	The Effect of Six Keyboard Designs on Wrist and Forearm Postures. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1366-1369.	0.3	0
46	Stem Cell Biology: Supplement Aims and Scope. Biomarker Insights, 2015, 10s1, BMI.S31471.	2.5	0
47	High-Throughput Systems for Stem Cell Engineering. , 2011, , 347-374.		0
48	Generation of 3X FLAG-tagged human embryonic stem cell (hESC) line to study WNT-induced Î²-catenin DNA interactions (HVRDe009-A-2). Stem Cell Research, 2021, 57, 102586.	0.7	0