

Richard P Davis

List of Publications by Year in descending order

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46
papers

4,130
citations

172457

29
h-index

254184

43
g-index

49
all docs

49
docs citations

49
times ranked

5385
citing authors

#	ARTICLE	IF	CITATIONS
1	NKX2-5eGFP/w hESCs for isolation of human cardiac progenitors and cardiomyocytes. Nature Methods, 2011, 8, 1037-1040.	19.0	384
2	Forced aggregation of defined numbers of human embryonic stem cells into embryoid bodies fosters robust, reproducible hematopoietic differentiation. Blood, 2005, 106, 1601-1603.	1.4	373
3	Human iPSC-Derived Cardiac Stromal Cells Enhance Maturation in 3D Cardiac Microtissues and Reveal Non-cardiomyocyte Contributions to Heart Disease. Cell Stem Cell, 2020, 26, 862-879.e11.	11.1	337
4	A protocol describing the use of a recombinant protein-based, animal product-free medium (APEL) for human embryonic stem cell differentiation as spin embryoid bodies. Nature Protocols, 2008, 3, 768-776.	12.0	276
5	Cardiomyocytes Derived From Pluripotent Stem Cells Recapitulate Electrophysiological Characteristics of an Overlap Syndrome of Cardiac Sodium Channel Disease. Circulation, 2012, 125, 3079-3091.	1.6	245
6	MUSCLEMOTION. Circulation Research, 2018, 122, e5-e16.	4.5	235
7	Targeting a GFP reporter gene to the MIXL1 locus of human embryonic stem cells identifies human primitive streak-like cells and enables isolation of primitive hematopoietic precursors. Blood, 2008, 111, 1876-1884.	1.4	221
8	Isogenic human pluripotent stem cell pairs reveal the role of a KCNH2 mutation in long-QT syndrome. EMBO Journal, 2013, 32, 3161-3175.	7.8	174
9	Contractile Defect Caused by Mutation in MYBPC3 Revealed under Conditions Optimized for Human PSC-Cardiomyocyte Function. Cell Reports, 2015, 13, 733-745.	6.4	167
10	A method for genetic modification of human embryonic stem cells using electroporation. Nature Protocols, 2007, 2, 792-796.	12.0	143
11	Transcriptome of human foetal heart compared with cardiomyocytes from pluripotent stem cells. Development (Cambridge), 2015, 142, 3231-8.	2.5	139
12	Retinoic Acid Induces <i>Pdx1</i> -Positive Endoderm in Differentiating Mouse Embryonic Stem Cells. Diabetes, 2005, 54, 301-305.	0.6	134
13	Pluripotent stem cell models of cardiac disease and their implication for drug discovery and development. Trends in Molecular Medicine, 2011, 17, 475-484.	6.7	117
14	A Targeted <i>NKX2.1</i> Human Embryonic Stem Cell Reporter Line Enables Identification of Human Basal Forebrain Derivatives. Stem Cells, 2011, 29, 462-473.	3.2	99
15	Challenges in Using Stem Cells for Cardiac Repair. Science Translational Medicine, 2010, 2, 27ps17.	12.4	92
16	Human pluripotent stem cell models of cardiac disease: from mechanisms to therapies. DMM Disease Models and Mechanisms, 2017, 10, 1039-1059.	2.4	83
17	NKX2-5 regulates human cardiomyogenesis via a HEY2 dependent transcriptional network. Nature Communications, 2018, 9, 1373.	12.8	77
18	Dual Reporter <i>MESP1mCherry/w-NKX2-5eGFP/w</i> hESCs Enable Studying Early Human Cardiac Differentiation. Stem Cells, 2015, 33, 56-67.	3.2	65

#	ARTICLE	IF	CITATIONS
19	Mice Deficient in Glutathione Transferase Zeta/Maleylacetoacetate Isomerase Exhibit a Range of Pathological Changes and Elevated Expression of Alpha, Mu, and Pi Class Glutathione Transferases. <i>American Journal of Pathology</i> , 2004, 165, 679-693.	3.8	63
20	SIRPA, VCAM1 and CD34 identify discrete lineages during early human cardiovascular development. <i>Stem Cell Research</i> , 2014, 13, 172-179.	0.7	63
21	Generation, functional analysis and applications of isogenic three-dimensional self-aggregating cardiac microtissues from human pluripotent stem cells. <i>Nature Protocols</i> , 2021, 16, 2213-2256.	12.0	53
22	Simultaneous measurement of excitation-contraction coupling parameters identifies mechanisms underlying contractile responses of hiPSC-derived cardiomyocytes. <i>Nature Communications</i> , 2019, 10, 4325.	12.8	51
23	A protocol for removal of antibiotic resistance cassettes from human embryonic stem cells genetically modified by homologous recombination or transgenesis. <i>Nature Protocols</i> , 2008, 3, 1550-1558.	12.0	50
24	Differentiation of Human Pluripotent Stem Cells to Cardiomyocytes Under Defined Conditions. <i>Methods in Molecular Biology</i> , 2014, 1353, 163-180.	0.9	48
25	A COUP-TFII Human Embryonic Stem Cell Reporter Line to Identify and Select Atrial Cardiomyocytes. <i>Stem Cell Reports</i> , 2017, 9, 1765-1779.	4.8	44
26	WNT3A Promotes Hematopoietic or Mesenchymal Differentiation from hESCs Depending on the Time of Exposure. <i>Stem Cell Reports</i> , 2013, 1, 53-65.	4.8	43
27	Generation of induced pluripotent stem cells from human foetal fibroblasts using the Sleeping Beauty transposon gene delivery system. <i>Differentiation</i> , 2013, 86, 30-37.	1.9	43
28	A Novel In Vitro Human Model of Hemangioma. <i>Modern Pathology</i> , 2000, 13, 92-99.	5.5	36
29	Directed Differentiation of Human Embryonic Stem Cells as Spin Embryoid Bodies and a Description of the Hematopoietic Blast Colony Forming Assay. <i>Current Protocols in Stem Cell Biology</i> , 2008, 4, Unit 1D.3.	3.0	36
30	Cryopreservation of human pluripotent stem cell-derived cardiomyocytes is not detrimental to their molecular and functional properties. <i>Stem Cell Research</i> , 2020, 43, 101698.	0.7	30
31	Concise review: Inherited cardiac diseases, pluripotent stem cells, and genome editing combined-the past, present, and future. <i>Stem Cells</i> , 2019, 38, 174-186.	3.2	29
32	BMP-SMAD Signaling Regulates Lineage Priming, but Is Dispensable for Self-Renewal in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 85-94.	4.8	27
33	Using Cardiovascular Cells from Human Pluripotent Stem Cells for COVID-19 Research: Why the Heart Fails. <i>Stem Cell Reports</i> , 2021, 16, 385-397.	4.8	25
34	Isogenic Sets of hiPSC-CMs Harboring Distinct KCNH2 Mutations Differ Functionally and in Susceptibility to Drug-Induced Arrhythmias. <i>Stem Cell Reports</i> , 2020, 15, 1127-1139.	4.8	23
35	Differential effects on out-of-hospital cardiac arrest of dihydropyridines: real-world data from population-based cohorts across two European countries. <i>European Heart Journal - Cardiovascular Pharmacotherapy</i> , 2020, 6, 347-355.	3.0	21
36	Generation of Human Embryonic Stem Cell Reporter Knock-In Lines by Homologous Recombination. <i>Current Protocols in Stem Cell Biology</i> , 2009, 11, Unit 5B.1 1.1-34.	3.0	17

#	ARTICLE	IF	CITATIONS
37	Multi-omics integration identifies key upstream regulators of pathomechanisms in hypertrophic cardiomyopathy due to truncating MYBPC3 mutations. <i>Clinical Epigenetics</i> , 2021, 13, 61.	4.1	17
38	Strategies for rapidly mapping proviral integration sites and assessing cardiogenic potential of nascent human induced pluripotent stem cell clones. <i>Experimental Cell Research</i> , 2014, 327, 297-306.	2.6	13
39	Maturation of hiPSC-derived cardiomyocytes promotes adult alternative splicing of SCN5A and reveals changes in sodium current associated with cardiac arrhythmia. <i>Cardiovascular Research</i> , 2023, 119, 167-182.	3.8	13
40	Generation of transgene-free mouse induced pluripotent stem cells using an excisable lentiviral system. <i>Experimental Cell Research</i> , 2014, 322, 335-344.	2.6	10
41	The Linkage Phase of the Polymorphism KCNH2-K897T Influences the Electrophysiological Phenotype in hiPSC Models of LQT2. <i>Frontiers in Physiology</i> , 2021, 12, 755642.	2.8	6
42	CRISPR/Cas9-Mediated Introduction of Specific Heterozygous Mutations in Human Induced Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2021, , 531-557.	0.9	3
43	Optogenetic Reporters Delivered as mRNA Facilitate Repeatable Action Potential and Calcium Handling Assessment in Human iPSC-Derived Cardiomyocytes. <i>Stem Cells</i> , 2022, 40, 655-668.	3.2	3
44	Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. , 2012, , 413-431.		1
45	Pluripotent Stem Cell Models of a Cardiac Sodium Channelopathy. <i>Biophysical Journal</i> , 2012, 102, 540a.	0.5	0
46	Isogenic Sets of Human Pluripotent Stem Cells as Model of LQT2 Syndrome. <i>Biophysical Journal</i> , 2014, 106, 552a-553a.	0.5	0