Chris Denning

List of Publications by Year
in descending order

104	6,228	66343	74163
papers	citations	42 h-index	75 g-index

109	109	109	7944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nature Biotechnology, 2011, 29, 1132-1144.	17.5	509
2	Drug evaluation in cardiomyocytes derived from human induced pluripotent stem cells carrying a long QT syndrome type 2 mutation. European Heart Journal, 2011, 32, 952-962.	2.2	363
3	Small molecule absorption by PDMS in the context of drug response bioassays. Biochemical and Biophysical Research Communications, 2017, 482, 323-328.	2.1	312
4	Improved Human Embryonic Stem Cell Embryoid Body Homogeneity and Cardiomyocyte Differentiation from a Novel V-96 Plate Aggregation System Highlights Interline Variability. Stem Cells, 2007, 25, 929-938.	3.2	275
5	Deletion of the Î±(1,3)galactosyl transferase (GGTA1) gene and the prion protein (PrP) gene in sheep. Nature Biotechnology, 2001, 19, 559-562.	17.5	256
6	Cardiomyocytes from human pluripotent stem cells: From laboratory curiosity to industrial biomedical platform. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1728-1748.	4.1	235
7	MUSCLEMOTION. Circulation Research, 2018, 122, e5-e16.	4.5	235
8	Transgenic Enrichment of Cardiomyocytes From Human Embryonic Stem Cells. Molecular Therapy, 2007, 15, 2027-2036.	8.2	222
9	CRISPR/Cas9 editing in human pluripotent stem cell-cardiomyocytes highlights arrhythmias, hypocontractility, and energy depletion as potential therapeutic targets for hypertrophic cardiomyopathy. European Heart Journal, 2018, 39, 3879-3892.	2.2	176
10	Restriction landmark genome scanning identifies culture-induced DNA methylation instability in the human embryonic stem cell epigenome. Human Molecular Genetics, 2007, 16, 1253-1268.	2.9	162
11	Automated, scalable culture of human embryonic stem cells in feederâ€free conditions. Biotechnology and Bioengineering, 2009, 102, 1636-1644.	3.3	147
12	N6-methyladenosine regulates the stability of RNA:DNA hybrids in human cells. Nature Genetics, 2020, 52, 48-55.	21.4	147
13	Materials for stem cell factories of the future. Nature Materials, 2014, 13, 570-579.	27.5	145
14	Modeling and study of the mechanism of dilated cardiomyopathy using induced pluripotent stem cells derived from individuals with Duchenne muscular dystrophy. DMM Disease Models and Mechanisms, 2015, 8, 457-466.	2.4	111
15	Allele-specific RNA interference rescues the long-QT syndrome phenotype in human-induced pluripotency stem cell cardiomyocytes. European Heart Journal, 2014, 35, 1078-1087.	2.2	107
16	Evaluating the utility of cardiomyocytes from human pluripotent stem cells for drug screening. Biochemical Society Transactions, 2010, 38, 1037-1045.	3.4	104
17	Improved genetic manipulation of human embryonic stem cells. Nature Methods, 2008, 5, 389-392.	19.0	95
18	Common culture conditions for maintenance and cardiomyocyte differentiation of the human embryonic stem cell lines, BG01 and HUES-7. International Journal of Developmental Biology, 2006, 50, 27-37.	0.6	91

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19	Gene-specific vulnerability to imprinting variability in human embryonic stem cell lines. Genome Research, 2007, 17, 1731-1742.	5.5	90
20	Current status of drug screening and disease modelling in human pluripotent stem cells. BioEssays, 2013, 35, 281-298.	2.5	89
21	Highly efficient delivery of functional cargoes by the synergistic effect of GAG binding motifs and cell-penetrating peptides. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E291-9.	7.1	88
22	Complex Relationship Between Cardiac Fibroblasts and Cardiomyocytes in Health and Disease. Journal of the American Heart Association, 2021, 10, e019338.	3.7	86
23	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. Advanced Materials, 2015, 27, 4006-4012.	21.0	75
24	Feeder-free culture of human embryonic stem cells in conditioned medium for efficient genetic modification. Nature Protocols, 2008, 3, 1435-1443.	12.0	73
25	Proliferative lifespan is conserved after nuclear transfer. Nature Cell Biology, 2003, 5, 535-538.	10.3	72
26	Combined hydrogels that switch human pluripotent stem cells from self-renewal to differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5580-5585.	7.1	67
27	Repolarization reserve determines drug responses in human pluripotent stem cell derived cardiomyocytes. Stem Cell Research, 2013, 10, 48-56.	0.7	64
28	Non-invasive label-free monitoring the cardiac differentiation of human embryonic stem cells in-vitro by Raman spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3517-3524.	2.4	63
29	Noninvasive Detection and Imaging of Molecular Markers in Live Cardiomyocytes Derived from Human Embryonic Stem Cells. Biophysical Journal, 2011, 100, 251-259.	0.5	60
30	Human embryonic stem cell methyl cycle enzyme expression: modelling epigenetic programming in assisted reproduction?. Reproductive BioMedicine Online, 2005, 10, 755-766.	2.4	59
31	Exon Skipping and Gene Transfer Restore Dystrophin Expression in Human Induced Pluripotent Stem Cells-Cardiomyocytes Harboring DMD Mutations. Stem Cells and Development, 2013, 22, 2714-2724.	2.1	56
32	Stem cellâ€“derived models to improve mechanistic understanding and prediction of human drugâ€induced liver injury. Hepatology, 2017, 65, 710-721.	7.3	54
33	Maintenance of pluripotency in human embryonic stem cells cultured on a synthetic substrate in conditioned medium. Biotechnology and Bioengineering, 2010, 105, 130-140.	3.3	53
34	Studentsâ€™ Views towards Sars-Cov-2 Mass Asymptomatic Testing, Social Distancing and Self-Isolation in a University Setting during the COVID-19 Pandemic: A Qualitative Study. International Journal of Environmental Research and Public Health, 2021, 18, 4182.	2.6	53
35	Automated Electrophysiological and Pharmacological Evaluation of Human Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cells and Development, 2016, 25, 439-452.	2.1	52
36	Isogenic Pairs of hiPSC-CMs with Hypertrophic Cardiomyopathy/LVNC-Associated ACTC1 E99K Mutation Unveil Differential Functional Deficits. Stem Cell Reports, 2018, 11, 1226-1243.	4.8	51

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37	Simultaneous measurement of excitation-contraction coupling parameters identifies mechanisms underlying contractile responses of hiPSC-derived cardiomyocytes. Nature Communications, 2019, 10, 4325.	12.8	51
38	Blinded, Multicenter Evaluation of Drug-induced Changes in Contractility Using Human-induced Pluripotent Stem Cell-derived Cardiomyocytes. Toxicological Sciences, 2020, 176, 103-123.	3.1	51
39	5-hydroxymethyl-cytosine enrichment of non-committed cells is not a universal feature of vertebrate development. Epigenetics, 2012, 7, 383-389.	2.7	48
40	A defined synthetic substrate for serum-free culture of human stem cell derived cardiomyocytes with improved functional maturity identified using combinatorial materials microarrays. Biomaterials, 2015, 61, 257-265.	11.4	47
41	Directed Differentiation of Human Embryonic Stem Cells to Interrogate the Cardiac Gene Regulatory Network. Molecular Therapy, 2011, 19, 1695-1703.	8.2	46
42	Aberrant Î±-Adrenergic Hypertrophic Response in Cardiomyocytes from Human Induced Pluripotent Cells. Stem Cell Reports, 2014, 3, 905-914.	4.8	46
43	Comparison of 10 Control hPSC Lines for Drug Screening in an Engineered Heart Tissue Format. Stem Cell Reports, 2020, 15, 983-998.	4.8	45
44	Toward label-free Raman-activated cell sorting of cardiomyocytes derived from human embryonic stem cells. Journal of Biomedical Optics, 2011, 16, 045002.	2.6	44
45	Stem-cell consequences of embryo epigenetic defects. Lancet, The, 2004, 364, 206-208.	13.7	40
46	Force and Calcium Transients Analysis in Human Engineered Heart Tissues Reveals Positive Force-Frequency Relation at Physiological Frequency. Stem Cell Reports, 2020, 14, 312-324.	4.8	40
47	Modeling Hypertrophic Cardiomyopathy: Mechanistic Insights and Pharmacological Intervention. Trends in Molecular Medicine, 2019, 25, 775-790.	6.7	39
48	High throughput screening for discovery of materials that control stem cell fate. Current Opinion in Solid State and Materials Science, 2016, 20, 202-211.	11.5	38
49	Isogenic models of hypertrophic cardiomyopathy unveil differential phenotypes and mechanism-driven therapeutics. Journal of Molecular and Cellular Cardiology, 2020, 145, 43-53.	1.9	37
50	Impacts of the COVID-19 Pandemic and Self-Isolation on Students and Staff in Higher Education: A Qualitative Study. International Journal of Environmental Research and Public Health, 2021, 18, 10675.	2.6	35
51	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. EMBO Molecular Medicine, 2021, 13, e13074.	6.9	34
52	Chemically diverse polymer microarrays and high throughput surface characterisation: a method for discovery of materials for stem cell culture. Biomaterials Science, 2014, 2, 1604-1611.	5.4	33
53	Unlocking Personalized Biomedicine and Drug Discovery with Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes: Fit for Purpose or Forever Elusive?. Annual Review of Pharmacology and Toxicology, 2020, 60, 529-551.	9.4	28
54	Applications of Raman micro-spectroscopy to stem cell technology: label-free molecular discrimination and monitoring cell differentiation. EPJ Techniques and Instrumentation, 2015, 2, 6.	1.3	27

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55	Molecular and phenotypic analyses of human embryonic stem cellderived cardiomyocytes. Opportunities and challenges for clinical translation. Thrombosis and Haemostasis, 2005, 94, 728-37.	3.4	26
56	The patentability of human embryonic stem cells in Europe. Nature Biotechnology, 2006, 24, 653-655.	17.5	25
57	Multifunctional Bioinstructive 3D Architectures to Modulate Cellular Behavior. Advanced Functional Materials, 2019, 29, 1902016.	14.9	25
58	Polymer Microparticles with Defined Surface Chemistry and Topography Mediate the Formation of Stem Cell Aggregates and Cardiomyocyte Function. ACS Applied Materials & Interfaces, 2019, 11, 34560-34574.	8.0	25
59	Faster generation of hiPSCs by coupling high-titer lentivirus and column-based positive selection. Nature Protocols, 2011, 6, 701-714.	12.0	24
60	Dynamics of 5-carboxylcytosine during hepatic differentiation: Potential general role for active demethylation by DNA repair in lineage specification. Epigenetics, 2017, 12, 277-286.	2.7	24
61	Simplified Footprint-Free Cas9/CRISPR Editing of Cardiac-Associated Genes in Human Pluripotent Stem Cells. Stem Cells and Development, 2018, 27, 391-404.	2.1	24
62	In Vitro Uses of Human Pluripotent Stem Cell-Derived Cardiomyocytes. Journal of Cardiovascular Translational Research, 2012, 5, 581-592.	2.4	23
63	Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes. Stem Cell Reports, 2021, 16, 2169-2181.	4.8	23
64	Two new protocols to enhance the production and isolation of human induced pluripotent stem cell lines. Stem Cell Research, 2011, 6, 158-167.	0.7	22
65	Human embryonic stem cells: towards therapies for cardiac disease. Derivation of a Dutch human embryonic stem cell line. Reproductive BioMedicine Online, 2005, 11, 476-485.	2.4	20
66	Cardiomyocytes from human embryonic stem cells as predictors of cardiotoxicity. Drug Discovery Today: Therapeutic Strategies, 2008, 5, 223-232.	0.5	20
67	Rapid micropatterning of cell lines and human pluripotent stem cells on elastomeric membranes. Biotechnology and Bioengineering, 2012, 109, 2630-2641.	3.3	19
68	Identification of polymer surface adsorbed proteins implicated in pluripotent human embryonic stem cell expansion. Biomaterials Science, 2016, 4, 1381-1391.	5.4	19
69	Variable expression and silencing of CRISPR-Cas9 targeted transgenes identifies the AAVS1 locus as not an entirely safe harbour. F1000Research, 2019, 8, 1911.	1.6	19
70	Human embryonic stem cells as a model for nutritional programming: An evaluation. Reproductive Toxicology, 2005, 20, 353-367.	2.9	18
71	Surface plasmon resonance imaging of excitable cells. Journal Physics D: Applied Physics, 2019, 52, 104001.	2.8	18
72	Drug-Mediated Shortening of Action Potentials in LQTS2 Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cells and Development, 2017, 26, 1695-1705.	2.1	17

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73	Variable expression and silencing of CRISPR-Cas9 targeted transgenes identifies the AAVS1 locus as not an entirely safe harbour. F1000Research, 2019, 8, 1911.	1.6	16
74	Exploring the Psychological Impacts of COVID-19 Social Restrictions on International University Students: A Qualitative Study. International Journal of Environmental Research and Public Health, 2022, 19, 7631.	2.6	15
75	Bioluminescence Imaging of Human Embryonic Stem Cells TransplantedIn Vivoin Murine and Chick Models. Cloning and Stem Cells, 2009, 11, 259-267.	2.6	13
76	Can Human Pluripotent Stem Cell-Derived Cardiomyocytes Advance Understanding of Muscular Dystrophies?. Journal of Neuromuscular Diseases, 2016, 3, 309-332.	2.6	13
77	Investigating the Complex Arrhythmic Phenotype Caused by the Gain-of-Function Mutation KCNQ1-G229D. Frontiers in Physiology, 2019, 10, 259.	2.8	13
78	Viral and non-viral gene delivery and its role in pluripotent stem cell engineering. Drug Discovery Today: Technologies, 2008, 5, e107-e115.	4.0	12
79	High-Throughput Phenotyping Toolkit for Characterizing Cellular Models of Hypertrophic Cardiomyopathy in Vitro. Methods and Protocols, 2019, 2, 83.	2.0	9
80	Transfection of hPSC-Cardiomyocytes Using Viafectâ„¢ Transfection Reagent. Methods and Protocols, 2020, 3, 57.	2.0	9
81	Genetic Manipulation of Human Embryonic Stem Cells in Serum and Feeder-Free Media. Methods in Molecular Biology, 2009, 584, 413-423.	0.9	9
82	Saliva for COVID-19 Testing: Simple but Useless or an Undervalued Resource?. Frontiers in Virology, 2021, 1, .	1.4	9
83	Derivation and characterisation of the human embryonic stem cell lines, NOTT1 and NOTT2. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 367-375.	1.5	8
84	Mitochondrial DNA: Hotspot for Potential Gene Modifiers Regulating Hypertrophic Cardiomyopathy. Journal of Clinical Medicine, 2020, 9, 2349.	2.4	8
85	Discovery of a Novel Polymer for Xenoâ€Free, Longâ€Term Culture of Human Pluripotent Stem Cell Expansion. Advanced Healthcare Materials, 2021, 10, e2001448.	7.6	8
86	Scaling human pluripotent stem cell expansion and differentiation: are cell factories becoming a reality?. Regenerative Medicine, 2015, 10, 925-930.	1.7	6
87	Development and validation of broad-spectrum magnetic particle labelling processes for cell therapy manufacturing. Stem Cell Research and Therapy, 2018, 9, 248.	5.5	6
88	The use of fluorescence correlation spectroscopy to monitor cell surface Î²2â€adrenoceptors at low expression levels in human embryonic stem cellâ€derived cardiomyocytes and fibroblasts. FASEB Journal, 2021, 35, e21398.	0.5	6
89	OUP accepted manuscript. Journal of Infectious Diseases, 2022, , .	4.0	6
90	Exon skipping and gene transfer restore dystrophin expression in hiPSC-cardiomyocytes harbouring DMD mutations. Stem Cells and Development, 2013, , 150127064140000.	2.1	5

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91	Basic Research Approaches to Evaluate Cardiac Arrhythmia in Heart Failure and Beyond. Frontiers in Physiology, 2022, 13, 806366.	2.8	5
92	Direct RT-qPCR Assay for the Detection of SARS-CoV-2 in Saliva Samples. Methods and Protocols, 2022, 5, 25.	2.0	5
93	CRISPR/Cas9-mediated generation and analysis of N terminus polymorphic models of Î²2AR in isogenic hPSC-derived cardiomyocytes. Molecular Therapy - Methods and Clinical Development, 2021, 20, 39-53.	4.1	4
94	Comparative effects of viral-transport-medium heat inactivation upon downstream SARS-CoV-2 detection in patient samples. Journal of Medical Microbiology, 2021, 70, .	1.8	4
95	Modeling and study of the mechanism of dilated cardiomyopathy using induced pluripotent stem cells derived from individuals with Duchenne muscular dystrophy. Development (Cambridge), 2015, 142, e0905-e0905.	2.5	3
96	Genetic Modification of Sheep by Nuclear Transfer With Gene-Targeted Somatic Cells. Methods in Molecular Biology, 2006, 348, 199-212.	0.9	2
97	Somatic Cell Nuclear Transplantation. , 2006, , 45-51.		2
98	A multiâ€electrode array (MEA) biochip with excimer laserâ€produced microâ€well features. Circuit World, 2012, 38, 30-37.	0.9	1
99	Differentiation and Characterization of Human Pluripotent Stem Cell-Derived Cardiac Endothelial Cells for In Vitro Applications. Methods in Molecular Biology, 2022, 2441, 339-348.	0.9	1
100	Quantifiable correlation of ToFâ€SIMS and XPS data from polymer surfaces with controlled amino acid and peptide content. Surface and Interface Analysis, 0, , .	1.8	1
101	Oct4 during the pluripotency differentiation transition: who is regulating the regulator. Regenerative Medicine, 2007, 2, 211-215.	1.7	0
102	Part A: Directed Differentiation of Human Embryonic Stem Cells into Cardiomyocytes. , 0, , 213-228.		0
103	Differentiation of Human Embryonic Stem Cells to Cardiomyocytes. , 2010, , 87-112.		0
104	Genetic Modification of Human Embryonic and Induced Pluripotent Stem Cells: Viral and Non-viral Approaches. , 2011, , 159-179.		0