Christine L Mummery

List of Publications by Year
in descending order

309 papers	29,095 citations	4383 86 h-index	6128 159 g-index
330 all docs	330 docs citations	330 times ranked	31352 citing authors

#	Article	IF	Citations
1	A promoter-level mammalian expression atlas. Nature, 2014, 507, 462-470.	13.7	1,838
2	Differentiation of Human Embryonic Stem Cells to Cardiomyocytes. Circulation, 2003, 107, 2733-2740.	1.6	1,091
3	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. Nature Biotechnology, 2007, 25, 803-816.	9.4	983
4	MicroRNAs in the Human Heart. Circulation, 2007, 116, 258-267.	1.6	852
5	Differentiation of Human Embryonic Stem Cells and Induced Pluripotent Stem Cells to Cardiomyocytes. Circulation Research, 2012, 111, 344-358.	2.0	641
6	Activin Receptor-like Kinase (ALK)1 Is an Antagonistic Mediator of Lateral TGFÎ²/ALK5 Signaling. Molecular Cell, 2003, 12, 817-828.	4.5	631
7	Endoglin promotes endothelial cell proliferation and TGF-Î²/ALK1 signal transduction. EMBO Journal, 2004, 23, 4018-4028.	3.5	592
8	Stem-cell-based therapy and lessons from the heart. Nature, 2008, 453, 322-329.	13.7	523
9	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nature Biotechnology, 2011, 29, 1132-1144.	9.4	509
10	Autotaxin, a Secreted Lysophospholipase D, Is Essential for Blood Vessel Formation during Development. Molecular and Cellular Biology, 2006, 26, 5015-5022.	1.1	496
11	Organs-on-chips: into the next decade. Nature Reviews Drug Discovery, 2021, 20, 345-361.	21.5	459
12	Regulation of human embryonic stem cell differentiation by BMP-2 and its antagonist noggin. Journal of Cell Science, 2004, 117, 1269-1280.	1.2	446
13	Recombinant Vitronectin Is a Functionally Defined Substrate That Supports Human Embryonic Stem Cell Self-Renewal via Î±VÎ²5 Integrin. Stem Cells, 2008, 26, 2257-2265.	1.4	389
14	NKX2-5eGFP/w hESCs for isolation of human cardiac progenitors and cardiomyocytes. Nature Methods, 2011, 8, 1037-1040.	9.0	384
15	Human embryonic stem cell-derived cardiomyocytes survive and mature in the mouse heart and transiently improve function after myocardial infarction. Stem Cell Research, 2007, 1, 9-24.	0.3	383
16	Induced pluripotent stem cells: the new patient?. Nature Reviews Molecular Cell Biology, 2012, 13, 713-726.	16.1	377
17	Prediction of drug-induced cardiotoxicity using human embryonic stem cell-derived cardiomyocytes. Stem Cell Research, 2010, 4, 107-116.	0.3	340
18	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.	5.2	337

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19	Increased Cardiomyocyte Differentiation from Human Embryonic Stem Cells in Serum-Free Cultures. Stem Cells, 2005, 23, 772-780.	1.4	324
20	Thalidomide stimulates vessel maturation and reduces epistaxis in individuals with hereditary hemorrhagic telangiectasia. Nature Medicine, 2010, 16, 420-428.	15.2	312
21	Small molecule absorption by PDMS in the context of drug response bioassays. Biochemical and Biophysical Research Communications, 2017, 482, 323-328.	1.0	312
22	Atrialâ€like cardiomyocytes from human pluripotent stem cells are a robust preclinical model for assessing atrialâ€selective pharmacology. EMBO Molecular Medicine, 2015, 7, 394-410.	3.3	310
23	Phosphorylation Dynamics during Early Differentiation of Human Embryonic Stem Cells. Cell Stem Cell, 2009, 5, 214-226.	5.2	301
24	Generation, expansion and functional analysis of endothelial cells and pericytes derived from human pluripotent stem cells. Nature Protocols, 2014, 9, 1514-1531.	5.5	281
25	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
26	Human embryonic stem cells: research, ethics and policy. Human Reproduction, 2003, 18, 672-682.	0.4	236
27	MUSCLEMOTION. Circulation Research, 2018, 122, e5-e16.	2.0	235
28	Isl1Cre reveals a common Bmp pathway in heart and limb development. Development (Cambridge), 2006, 133, 1575-1585.	1.2	234
29	Enhanced cardiomyogenesis of human embryonic stem cells by a small molecular inhibitor of p38 MAPK. Differentiation, 2008, 76, 357-370.	1.0	233
30	Human Embryonic Stem Cellâ€"Derived Cardiomyocytes and Cardiac Repair in Rodents. Circulation Research, 2008, 102, 1008-1010.	2.0	233
31	Immaturity of Human Stem-Cell-Derived Cardiomyocytes in Culture: Fatal Flaw or Soluble Problem?. Stem Cells and Development, 2015, 24, 1035-1052.	1.1	229
32	Adult Neurogenesis Requires Smad4-Mediated Bone Morphogenic Protein Signaling in Stem Cells. Journal of Neuroscience, 2008, 28, 434-446.	1.7	228
33	Three-dimensional cardiac microtissues composed of cardiomyocytes and endothelial cells co-differentiated from human pluripotent stem cells. Development (Cambridge), 2017, 144, 1008-1017.	1.2	216
34	TGF-Î²1 induces efficient differentiation of human cardiomyocyte progenitor cells into functional cardiomyocytes in vitro. Stem Cell Research, 2008, 1, 138-149.	0.3	214
35	Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. European Heart Journal, 2016, 37, 1789-1798.	1.0	210
36	Stalk Cell Phenotype Depends on Integration of Notch and Smad1/5 Signaling Cascades. Developmental Cell, 2012, 22, 501-514.	3.1	198

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37	FANTOM5 CAGE profiles of human and mouse samples. Scientific Data, 2017, 4, 170112.	2.4	195
38	Chemically defined medium supporting cardiomyocyte differentiation of human embryonic stem cells. Differentiation, 2008, 76, 958-970.	1.0	193
39	Personalised organs-on-chips: functional testing for precision medicine. Lab on A Chip, 2019, 19, 198-205.	3.1	183
40	BMP signaling mediated by ALK2 in the visceral endoderm is necessary for the generation of primordial germ cells in the mouse embryo. Genes and Development, 2004, 18, 1838-1849.	2.7	180
41	Genome-Wide Transcriptional Profiling of Human Embryonic Stem Cells Differentiating to Cardiomyocytes. Stem Cells, 2006, 24, 1956-1967.	1.4	179
42	Functional maturation of human pluripotent stem cell derived cardiomyocytes inÂvitro â€" Correlation between contraction force andÂelectrophysiology. Biomaterials, 2015, 51, 138-150.	5.7	176
43	Isogenic human pluripotent stem cell pairs reveal the role of a KCNH2 mutation in long-QT syndrome. EMBO Journal, 2013, 32, 3161-3175.	3.5	174
44	Origins and Fates of Cardiovascular Progenitor Cells. Cell, 2008, 132, 537-543.	13.5	172
45	Functionality of Endothelial Cells and Pericytes From Human Pluripotent Stem Cells Demonstrated in Cultured Vascular Plexus and Zebrafish Xenografts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 177-186.	1.1	172
46	Induced pluripotent stem cell derived cardiomyocytes as models for cardiac arrhythmias. Frontiers in Physiology, 2012, 3, 346.	1.3	168
47	Contractile Defect Caused by Mutation in MYBPC3 Revealed under Conditions Optimized for Human PSC-Cardiomyocyte Function. Cell Reports, 2015, 13, 733-745.	2.9	167
48	Expansion and patterning of cardiovascular progenitors derived from human pluripotent stem cells. Nature Biotechnology, 2015, 33, 970-979.	9.4	165
49	Restriction landmark genome scanning identifies culture-induced DNA methylation instability in the human embryonic stem cell epigenome. Human Molecular Genetics, 2007, 16, 1253-1268.	1.4	162
50	Human cardiomyocyte progenitor cell transplantation preserves long-term function of the infarcted mouse myocardium. Cardiovascular Research, 2009, 83, 527-535.	1.8	158
51	Recessive cardiac phenotypes in induced pluripotent stem cell models of Jervell and Lange-Nielsen syndrome: Disease mechanisms and pharmacological rescue. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5383-92.	3.3	153
52	Defective paracrine signalling by TGFÎ² in yolk sac vasculature of endoglin mutant mice: a paradigm for hereditary haemorrhagic telangiectasia. Development (Cambridge), 2004, 131, 6237-6247.	1.2	141
53	Transcriptome of human foetal heart compared with cardiomyocytes from pluripotent stem cells. Development (Cambridge), 2015, 142, 3231-8.	1.2	139
54	Three-dimensional co-cultures of human endothelial cells and embryonic stem cell-derived pericytes inside a microfluidic device. Lab on A Chip, 2013, 13, 3562.	3.1	135

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55	An experimental correction for arginine-to-proline conversion artifacts in SILAC-based quantitative proteomics. Nature Methods, 2007, 4, 677-678.	9.0	132
56	Expression of TGF-Î²s and Their Receptors during Implantation and Organogenesis of the Mouse Embryo. Developmental Biology, 1994, 166, 716-728.	0.9	124
57	Endoglin Has a Crucial Role in Blood Cellâ€“Mediated Vascular Repair. Circulation, 2006, 114, 2288-2297.	1.6	124
58	Origin and use of embryonic and adult stem cells in differentiation and tissue repair. Cardiovascular Research, 2003, 58, 324-335.	1.8	122
59	Complex Tissue and Disease Modeling using hiPSCs. Cell Stem Cell, 2016, 18, 309-321.	5.2	121
60	A Quest for Human and Mouse Embryonic Stem Cell-specific Proteins. Molecular and Cellular Proteomics, 2006, 5, 1261-1273.	2.5	120
61	KeyGenes, a Tool to Probe Tissue Differentiation Using a Human Fetal Transcriptional Atlas. Stem Cell Reports, 2015, 4, 1112-1124.	2.3	118
62	Pluripotent stem cell models of cardiac disease and their implication for drug discovery and development. Trends in Molecular Medicine, 2011, 17, 475-484.	3.5	117
63	Induction and Enhancement of Cardiac Cell Differentiation from Mouse and Human Induced Pluripotent Stem Cells with Cyclosporin-A. PLoS ONE, 2011, 6, e16734.	1.1	116
64	Expression of ALK-1, a type 1 serine/threonine kinase receptor, coincides with sites of vasculogenesis and angiogenesis in early mouse development. Developmental Dynamics, 1997, 209, 418-430.	0.8	115
65	Conversion of Mature Human Î²-Cells Into Glucagon-Producing Î±-Cells. Diabetes, 2013, 62, 2471-2480.	0.3	115
66	Insulin Redirects Differentiation from Cardiogenic Mesoderm and Endoderm to Neuroectoderm in Differentiating Human Embryonic Stem Cells. Stem Cells, 2008, 26, 724-733.	1.4	113
67	Plasma Membrane Proteomics of Human Embryonic Stem Cells and Human Embryonal Carcinoma Cells. Journal of Proteome Research, 2008, 7, 2936-2951.	1.8	112
68	Expression of type I and type IB receptors for activin in midgestation mouse embryos suggests distinct functions in organogenesis. Mechanisms of Development, 1995, 52, 109-123.	1.7	111
69	Advanced in vitro models of vascular biology: Human induced pluripotent stem cells and organ-on-chip technology. Advanced Drug Delivery Reviews, 2019, 140, 68-77.	6.6	109
70	Visceral-endoderm-like cell lines induce differentiation of murine P19 embryonal carcinoma cells. Differentiation, 1991, 46, 51-60.	1.0	106
71	Compensatory signalling induced in the yolk sac vasculature by deletion of TGFÎ² receptors in mice. Journal of Cell Science, 2007, 120, 4269-4277.	1.2	104
72	ETHICS: The ISSCR Guidelines for Human Embryonic Stem Cell Research. Science, 2007, 315, 603-604.	6.0	104

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73	Integrating cardiomyocytes from human pluripotent stem cells in safety pharmacology: has the time come?. British Journal of Pharmacology, 2017, 174, 3749-3765.	2.7	104
74	Differentiation is coupled to changes in the cell cycle regulatory apparatus of human embryonic stem cells. Stem Cell Research, 2007, 1, 45-60.	0.3	102
75	Cation transport and growth regulation in neuroblastoma cells. Modulations of K+ transport and electrical membrane properties during the cell cycle. Journal of Cellular Physiology, 1981, 107, 75-83.	2.0	101
76	Hereditary hemorrhagic telangiectasia: an update on transforming growth factor ? signaling in vasculogenesis and angiogenesis. Cardiovascular Research, 2003, 58, 20-31.	1.8	101
77	Variants of the Î±₆Î²₁Laminin Receptor in Early Murine Development: Distribution, Molecular Cloning and Chromosomal Localization of the Mouse Integrin Î±₆Subunit. Cell Adhesion and Communication, 1993, 1, 33-53.	1.7	99
78	Identification of Cell Surface Proteins for Antibody-Based Selection of Human Embryonic Stem Cell-Derived Cardiomyocytes. Journal of Proteome Research, 2010, 9, 1610-1618.	1.8	99
79	<i><scp>TECRL</scp></i>, a new lifeâ€threatening inherited arrhythmia gene associated with overlapping clinical features of both <scp>LQTS</scp> and <scp>CPVT</scp>. EMBO Molecular Medicine, 2016, 8, 1390-1408.	3.3	98
80	Myocardial Tissue Engineering: In Vitro Models. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a014076-a014076.	2.9	97
81	Connective tissue growth factor expression and Smad signaling during mouse heart development and myocardial infarction. Developmental Dynamics, 2004, 231, 542-550.	0.8	95
82	Improved genetic manipulation of human embryonic stem cells. Nature Methods, 2008, 5, 389-392.	9.0	95
83	Microarray analysis reveals expression regulation of Wnt antagonists in differentiating osteoblasts. Bone, 2005, 36, 803-811.	1.4	94
84	Transplantation of cells for cardiac repair. Journal of the American College of Cardiology, 2003, 41, 711-717.	1.2	93
85	Uncoupling DNA damage from chromatin damage to detoxify doxorubicin. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15182-15192.	3.3	93
86	Challenges in Using Stem Cells for Cardiac Repair. Science Translational Medicine, 2010, 2, 27ps17.	5.8	92
87	Gene-specific vulnerability to imprinting variability in human embryonic stem cell lines. Genome Research, 2007, 17, 1731-1742.	2.4	90
88	Prospects for pluripotent stem cellâ€derived cardiomyocytes in cardiac cell therapy and as disease models. Journal of Cellular Biochemistry, 2009, 107, 592-599.	1.2	86
89	Patterning the heart, a template for human cardiomyocyte development. Developmental Dynamics, 2006, 235, 1994-2002.	0.8	84
90	Human pluripotent stem cell models of cardiac disease: from mechanisms to therapies. DMM Disease Models and Mechanisms, 2017, 10, 1039-1059.	1.2	83

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91	Identification of Novel Regulators Associated With Early-Phase Osteoblast Differentiation. Journal of Bone and Mineral Research, 2004, 19, 947-958.	3.1	82
92	Spatio-temporal activation of Smad1 and Smad5 in vivo: monitoring transcriptional activity of Smad proteins. Journal of Cell Science, 2004, 117, 4653-4663.	1.2	81
93	Human Organs-on-Chips for Virology. Trends in Microbiology, 2020, 28, 934-946.	3.5	81
94	Comprehensive Microarray Analysis of Bone Morphogenetic Protein 2-Induced Osteoblast Differentiation Resulting in the Identification of Novel Markers for Bone Development. Journal of Bone and Mineral Research, 2002, 17, 2106-2118.	3.1	79
95	Monitoring of cell therapy and assessment of cardiac function using magnetic resonance imaging in a mouse model of myocardial infarction. Nature Protocols, 2007, 2, 2551-2567.	5.5	79
96	Regulation of stem cell therapies under attack in Europe: for whom the bell tolls. EMBO Journal, 2013, 32, 1489-1495.	3.5	79
97	Pluripotent Stem Cell Models of Human Heart Disease. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a014027-a014027.	2.9	79
98	Cardiomyocytes from human pluripotent stem cells in regenerative medicine and drug discovery. Trends in Pharmacological Sciences, 2009, 30, 536-545.	4.0	78
99	Modelling sarcomeric cardiomyopathies in the dish: from human heart samples to iPSC cardiomyocytes. Cardiovascular Research, 2015, 105, 424-438.	1.8	77
100	A new <scp>hERG</scp> allosteric modulator rescues genetic and drugâ€induced longâ€<scp>QT</scp> syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. EMBO Molecular Medicine, 2016, 8, 1065-1081.	3.3	77
101	NKX2-5 regulates human cardiomyogenesis via a HEY2 dependent transcriptional network. Nature Communications, 2018, 9, 1373.	5.8	77
102	BMP4 Promotes EMT and Mesodermal Commitment in Human Embryonic Stem Cells via SLUG and MSX2. Stem Cells, 2014, 32, 636-648.	1.4	74
103	BMP signalling differentially regulates distinct haematopoietic stem cell types. Nature Communications, 2015, 6, 8040.	5.8	74
104	Concise Review: Measuring Physiological Responses of Human Pluripotent Stem Cell Derived Cardiomyocytes to Drugs and Disease. Stem Cells, 2016, 34, 2008-2015.	1.4	74
105	Feeder-free culture of human embryonic stem cells in conditioned medium for efficient genetic modification. Nature Protocols, 2008, 3, 1435-1443.	5.5	73
106	Improvement of mouse cardiac function by hESC-derived cardiomyocytes correlates with vascularity but not graft size. Stem Cell Research, 2009, 3, 106-112.	0.3	71
107	Differentiation and Functional Comparison of Monocytes and Macrophages from hiPSCs with Peripheral Blood Derivatives. Stem Cell Reports, 2019, 12, 1282-1297.	2.3	71
108	Heart repair and stem cells. Journal of Physiology, 2006, 577, 467-478.	1.3	70

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109	Real time monitoring of BMP Smads transcriptional activity during mouse development. Genesis, 2008, 46, 335-346.	0.8	70
110	Endoglin promotes TGF-Î²/Smad1 signaling in scleroderma fibroblasts. Journal of Cellular Physiology, 2011, 226, 3340-3348.	2.0	67
111	Induced Pluripotent Stem Cells to Model Human Fibrodysplasia Ossificans Progressiva. Stem Cell Reports, 2015, 5, 963-970.	2.3	67
112	Endoglin-Mediated Vascular Remodeling: Mechanisms Underlying Hereditary Hemorrhagic Telangiectasia. Trends in Cardiovascular Medicine, 2008, 18, 25-32.	2.3	66
113	Dual Reporter <i>MESP1mCherry/w-NKX2-5eGFP/w</i> hESCs Enable Studying Early Human Cardiac Differentiation. Stem Cells, 2015, 33, 56-67.	1.4	65
114	Human Embryonic and Fetal Mesenchymal Stem Cells Differentiate toward Three Different Cardiac Lineages in Contrast to Their Adult Counterparts. PLoS ONE, 2011, 6, e24164.	1.1	64
115	Aggregation and cell cycle dependent retinoic acid receptor mRNA expression in P19 embryonal carcinoma cells. Mechanisms of Development, 1992, 36, 165-172.	1.7	63
116	Cardiomyocyte differentiation of pluripotent stem cells and their use as cardiac disease models. Biochemical Journal, 2011, 434, 25-35.	1.7	63
117	SIRPA, VCAM1 and CD34 identify discrete lineages during early human cardiovascular development. Stem Cell Research, 2014, 13, 172-179.	0.3	63
118	Functions of the superfamily in human embryonic stem cells. Apmis, 2005, 113, 773-789.	0.9	62
119	Nitric Oxide Signaling in Oxytocin-Mediated Cardiomyogenesis. Stem Cells, 2007, 25, 679-688.	1.4	62
120	Subtype-specific promoter-driven action potential imaging for precise disease modelling and drug testing in hiPSC-derived cardiomyocytes. European Heart Journal, 2017, 38, ehw189.	1.0	62
121	Activation of the Canonical Bone Morphogenetic Protein (BMP) Pathway during Lung Morphogenesis and Adult Lung Tissue Repair. PLoS ONE, 2012, 7, e41460.	1.1	60
122	Serum supplemented culture medium masks hypertrophic phenotypes in human pluripotent stem cell derived cardiomyocytes. Journal of Cellular and Molecular Medicine, 2014, 18, 1509-1518.	1.6	60
123	PGC-1Î± and Reactive Oxygen Species Regulate Human Embryonic Stem Cell-Derived Cardiomyocyte Function. Stem Cell Reports, 2013, 1, 560-574.	2.3	59
124	What if stem cells turn into embryos in a dish?. Nature Methods, 2015, 12, 917-919.	9.0	59
125	ENDOGLIN Is Dispensable for Vasculogenesis, but Required for Vascular Endothelial Growth Factor-Induced Angiogenesis. PLoS ONE, 2014, 9, e86273.	1.1	59
126	Extracellular matrix formation after transplantation of human embryonic stem cell-derived cardiomyocytes. Cellular and Molecular Life Sciences, 2010, 67, 277-290.	2.4	58

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127	Human embryonic stem cells: Genetic manipulation on the way to cardiac cell therapies. Reproductive Toxicology, 2005, 20, 377-391.	1.3	55
128	Induced Pluripotent Stem Cells â€" A Cautionary Note. New England Journal of Medicine, 2011, 364, 2160-2162.	13.9	55
129	Human Pluripotent Stem Cell Differentiation into Functional Epicardial Progenitor Cells. Stem Cell Reports, 2017, 9, 1754-1764.	2.3	55
130	Inflammatory Responses and Barrier Function of Endothelial Cells Derived from Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2018, 10, 1642-1656.	2.3	55
131	Interpretation of field potentials measured on a multi electrode array in pharmacological toxicity screening on primary and human pluripotent stem cell-derived cardiomyocytes. Biochemical and Biophysical Research Communications, 2018, 497, 1135-1141.	1.0	55
132	Cell cycle analysis during retinoic acid induced differentiation of a human embryonal carcinoma-derived cell line. Cell Differentiation, 1987, 20, 153-160.	1.3	54
133	Two novel type II receptors mediate BMP signalling and are required to establish leftâ€"right asymmetry in zebrafish. Developmental Biology, 2008, 315, 55-71.	0.9	54
134	Perspectives on the Use of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Biomedical Research. Stem Cell Reports, 2018, 11, 1306-1311.	2.3	54
135	Cardiomyocyte differentiation from embryonic and adult stem cells. Current Opinion in Biotechnology, 2005, 16, 498-502.	3.3	53
136	Altered primordial germ cell migration in the absence of transforming growth factor Î² signaling via ALK5. Developmental Biology, 2005, 284, 194-203.	0.9	53
137	CHAP is a newly identified Z-disc protein essential for heart and skeletal muscle function. Journal of Cell Science, 2010, 123, 1141-1150.	1.2	53
138	A comprehensive gene expression analysis at sequential stages of in vitro cardiac differentiation from isolated MESP1-expressing-mesoderm progenitors. Scientific Reports, 2016, 6, 19386.	1.6	53
139	DNA methylation and transcriptional trajectories during human development and reprogramming of isogenic pluripotent stem cells. Nature Communications, 2017, 8, 908.	5.8	53
140	Generation, functional analysis and applications of isogenic three-dimensional self-aggregating cardiac microtissues from human pluripotent stem cells. Nature Protocols, 2021, 16, 2213-2256.	5.5	53
141	Expression patterns of laminin receptor splice variants Î±6AÎ²1 and Î±6BÎ²1 suggest different roles in mouse development. Developmental Dynamics, 1995, 204, 240-258.	0.8	52
142	Modulation of functional and optimal (Na+-K+)ATPase activity during the cell cycle of neuroblastoma cells. Journal of Cellular Physiology, 1981, 107, 1-9.	2.0	51
143	Two receptor classes for epidermal growth factor on pheochromocytoma cells, distinguishable by temperature, lectins, and tumor promoters. Journal of Cellular Physiology, 1985, 123, 347-352.	2.0	51
144	Preferential expression of cellular retinoic acid binding protein in a subpopulation of neural cells in the developing mouse embryo. Differentiation, 1989, 40, 99-105.	1.0	51

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145	Simultaneous measurement of excitation-contraction coupling parameters identifies mechanisms underlying contractile responses of hiPSC-derived cardiomyocytes. Nature Communications, 2019, 10, 4325.	5.8	51
146	Blinded, Multicenter Evaluation of Drug-induced Changes in Contractility Using Human-induced Pluripotent Stem Cell-derived Cardiomyocytes. Toxicological Sciences, 2020, 176, 103-123.	1.4	51
147	Differentiation of Human Pluripotent Stem Cells to Cardiomyocytes Under Defined Conditions. Methods in Molecular Biology, 2014, 1353, 163-180.	0.4	48
148	Generation of a floxed allele of the mouse endoglin gene. Genesis, 2007, 45, 391-395.	0.8	47
149	A practical guide for the identification of membrane and plasma membrane proteins in human embryonic stem cells and human embryonal carcinoma cells. Proteomics, 2008, 8, 4036-4053.	1.3	47
150	Scalable microphysiological system to model three-dimensional blood vessels. APL Bioengineering, 2019, 3, 026105.	3.3	47
151	Solace for the broken-hearted?. Nature, 2005, 433, 585-587.	13.7	45
152	Pluripotent stem cell derived cardiovascular progenitors â€" A developmental perspective. Developmental Biology, 2015, 400, 169-179.	0.9	45
153	A COUP-TFII Human Embryonic Stem Cell Reporter Line to Identify and Select Atrial Cardiomyocytes. Stem Cell Reports, 2017, 9, 1765-1779.	2.3	44
154	Generation of induced pluripotent stem cells from human foetal fibroblasts using the Sleeping Beauty transposon gene delivery system. Differentiation, 2013, 86, 30-37.	1.0	43
155	Isolation and characterization of permanent cell lines from inner cell mass cells of bovine blastocysts. Molecular Reproduction and Development, 1995, 40, 444-454.	1.0	42
156	A cardiomyocyte show of force: A fluorescent alpha-actinin reporter line sheds light on human cardiomyocyte contractility versus substrate stiffness. Journal of Molecular and Cellular Cardiology, 2020, 141, 54-64.	0.9	42
157	Cardiac Tissues From Stem Cells. Circulation Research, 2021, 128, 775-801.	2.0	42
158	Engineered 3D vessel-on-chip using hiPSC-derived endothelial- and vascular smooth muscle cells. Stem Cell Reports, 2021, 16, 2159-2168.	2.3	42
159	SOST expression is restricted to the great arteries during embryonic and neonatal cardiovascular development. Developmental Dynamics, 2007, 236, 606-612.	0.8	41
160	A P19Cl6 GFP reporter line to quantify cardiomyocyte differentiation of stem cells.. International Journal of Developmental Biology, 2004, 48, 47-55.	0.3	41
161	Building blocks for a European Organ-on-Chip roadmap. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 481-492.	0.9	41
162	Epidermal growth factor receptor expression during morphological differentiation of pheochromocytoma cells, induced by nerve growth factor or dibutyryl cyclic AMP. Journal of Cellular Physiology, 1987, 131, 409-417.	2.0	38

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163	Cytostretch, an Organ-on-Chip Platform. Micromachines, 2016, 7, 120.	1.4	38
164	Distribution of phosphorylated Smad2 identifies target tissues of TGFÎ² ligands in mouse development. Gene Expression Patterns, 2003, 3, 355-360.	0.3	37
165	Embryonic stem cell proteomics. Expert Review of Proteomics, 2006, 3, 427-437.	1.3	37
166	Sox2 Transduction Enhances Cardiovascular Repair Capacity of Blood-Derived Mesoangioblasts. Circulation Research, 2010, 106, 1290-1302.	2.0	37
167	BMP and Hedgehog Regulate Distinct AGM Hematopoietic Stem Cells ExÂVivo. Stem Cell Reports, 2016, 6, 383-395.	2.3	37
168	Impaired recruitment of HHT-1 mononuclear cells to the ischaemic heart is due to an altered CXCR4/CD26 balance. Cardiovascular Research, 2010, 85, 494-502.	1.8	35
169	Differentiation-Defective Human Induced Pluripotent Stem Cells RevealÂStrengths and Limitations of the Teratoma Assay and InÂVitro Pluripotency Assays. Stem Cell Reports, 2017, 8, 1340-1353.	2.3	35
170	In vitro modelling of alveolar repair at the air-liquid interface using alveolar epithelial cells derived from human induced pluripotent stem cells. Scientific Reports, 2020, 10, 5499.	1.6	35
171	Modulations of NA+ transport during the cell cycle of neuroblastoma cells. Journal of Cellular Physiology, 1982, 112, 27-34.	2.0	34
172	Identification and characterization of polypeptide growth factors secreted by murine embryonal carcinoma cells. Developmental Biology, 1989, 133, 272-283.	0.9	34
173	Progenitor cells for cardiac repair. Seminars in Cell and Developmental Biology, 2007, 18, 153-160.	2.3	34
174	Proteomics and human embryonic stem cells. Stem Cell Research, 2008, 1, 169-182.	0.3	34
175	The composition and differentiation potential of the duodenal intraepithelial innate lymphocyte compartment is altered in coeliac disease. Gut, 2016, 65, 1269-1278.	6.1	34
176	Regenerative medicine funding policies in Europe and The Netherlands. Npj Regenerative Medicine, 2017, 2, 1.	2.5	34
177	Stage-specific appearance of the mouse antigen TEC-3 in normal and nuclear transfer bovine embryos: Re-expression after nuclear transfer. Molecular Reproduction and Development, 1994, 37, 27-33.	1.0	33
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