

Chunhui Xu

List of Publications by Year in descending order

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38
papers

6,242
citations

393982

19
h-index

329751

37
g-index

40
all docs

40
docs citations

40
times ranked

6209
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiomyocytes derived from human embryonic stem cells in pro-survival factors enhance function of infarcted rat hearts. <i>Nature Biotechnology</i> , 2007, 25, 1015-1024.	9.4	2,050
2	Feeder-free growth of undifferentiated human embryonic stem cells. <i>Nature Biotechnology</i> , 2001, 19, 971-974.	9.4	1,771
3	Characterization and Enrichment of Cardiomyocytes Derived From Human Embryonic Stem Cells. <i>Circulation Research</i> , 2002, 91, 501-508.	2.0	864
4	Formation of Human Myocardium in the Rat Heart from Human Embryonic Stem Cells. <i>American Journal of Pathology</i> , 2005, 167, 663-671.	1.9	418
5	Immortalized Fibroblast-Like Cells Derived from Human Embryonic Stem Cells Support Undifferentiated Cell Growth. <i>Stem Cells</i> , 2004, 22, 972-980.	1.4	175
6	Cardiac Bodies: A Novel Culture Method for Enrichment of Cardiomyocytes Derived from Human Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2006, 15, 631-639.	1.1	95
7	Efficient generation and cryopreservation of cardiomyocytes derived from human embryonic stem cells. <i>Regenerative Medicine</i> , 2011, 6, 53-66.	0.8	88
8	Cell alignment induced by anisotropic electrospun fibrous scaffolds alone has limited effect on cardiomyocyte maturation. <i>Stem Cell Research</i> , 2016, 16, 740-750.	0.3	74
9	Microscale Generation of Cardiospheres Promotes Robust Enrichment of Cardiomyocytes Derived from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2014, 3, 260-268.	2.3	73
10	Simulated Microgravity and 3D Culture Enhance Induction, Viability, Proliferation and Differentiation of Cardiac Progenitors from Human Pluripotent Stem Cells. <i>Scientific Reports</i> , 2016, 6, 30956.	1.6	73
11	Targeting HIF-1 α in combination with PPAR γ activation and postnatal factors promotes the metabolic maturation of human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 132, 120-135.	0.9	51
12	Human Embryonic Stem Cell-Derived Cardiomyocytes Can Be Maintained in Defined Medium without Serum. <i>Stem Cells and Development</i> , 2006, 15, 931-941.	1.1	49
13	A human pluripotent stem cell model of catecholaminergic polymorphic ventricular tachycardia recapitulates patient-specific drug responses. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 927-39.	1.2	45
14	Human iPSC-derived mesenchymal stem cells encapsulated in PEGDA hydrogels mature into valve interstitial-like cells. <i>Acta Biomaterialia</i> , 2018, 71, 235-246.	4.1	43
15	Aggregation of Child Cardiac Progenitor Cells Into Spheres Activates Notch Signaling and Improves Treatment of Right Ventricular Heart Failure. <i>Circulation Research</i> , 2019, 124, 526-538.	2.0	36
16	Differentiation and enrichment of cardiomyocytes from human pluripotent stem cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 1203-1212.	0.9	34
17	Molecular beacon-based detection and isolation of working-type cardiomyocytes derived from human pluripotent stem cells. <i>Biomaterials</i> , 2015, 50, 176-185.	5.7	30
18	Novel surface-enhanced Raman scattering-based assays for ultra-sensitive detection of human pluripotent stem cells. <i>Biomaterials</i> , 2016, 105, 66-76.	5.7	28

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19	Hypoplastic left heart syndrome: From bedside to bench and back. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 135, 109-118.	0.9	24
20	Machine learning identifies abnormal Ca ²⁺ transients in human induced pluripotent stem cell-derived cardiomyocytes. <i>Scientific Reports</i> , 2020, 10, 16977.	1.6	20
21	Functional and molecular effects of TNF- α on human iPSC-derived cardiomyocytes. <i>Stem Cell Research</i> , 2021, 52, 102218.	0.3	20
22	Coordinated Proliferation and Differentiation of Human-Induced Pluripotent Stem Cell-Derived Cardiac Progenitor Cells Depend on Bone Morphogenetic Protein Signaling Regulation by GREMLIN 2. <i>Stem Cells and Development</i> , 2017, 26, 678-693.	1.1	17
23	Efficient Differentiation of Cardiomyocytes from Human Pluripotent Stem Cells with Growth Factors. <i>Methods in Molecular Biology</i> , 2015, 1299, 115-131.	0.4	17
24	Cardiac Toxicity From Ethanol Exposure in Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Toxicological Sciences</i> , 2019, 169, 280-292.	1.4	16
25	Targeted Elimination of Tumorigenic Human Pluripotent Stem Cells Using Suicide-Inducing Virus-like Particles. <i>ACS Chemical Biology</i> , 2018, 13, 2329-2338.	1.6	15
26	Carfilzomib Treatment Causes Molecular and Functional Alterations of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Journal of the American Heart Association</i> , 2021, 10, e022247.	1.6	15
27	A 3D Bioprinted in vitro Model of Neuroblastoma Recapitulates Dynamic Tumor-Endothelial Cell Interactions Contributing to Solid Tumor Aggressive Behavior. <i>Advanced Science</i> , 2022, 9, .	5.6	15
28	Melphalan induces cardiotoxicity through oxidative stress in cardiomyocytes derived from human induced pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 470.	2.4	14
29	Downregulation of LGR5 Expression Inhibits Cardiomyocyte Differentiation and Potentiates Endothelial Differentiation from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2017, 9, 513-527.	2.3	13
30	A long non-coding RNA <i>GATA6-AS1</i> adjacent to <i>GATA6</i> is required for cardiomyocyte differentiation from human pluripotent stem cells. <i>FASEB Journal</i> , 2020, 34, 14336-14352.	0.2	12
31	Cryopreservation of Human Pluripotent Stem Cell-Derived Cardiomyocytes: Strategies, Challenges, and Future Directions. <i>Advances in Experimental Medicine and Biology</i> , 2016, 951, 123-135.	0.8	9
32	Chronic Ethanol Exposure Induces Deleterious Changes in Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 2314-2331.	1.7	8
33	Marching towards regenerative cardiac therapy with human pluripotent stem cells. <i>Discovery Medicine</i> , 2013, 15, 349-56.	0.5	8
34	Turning cardiac fibroblasts into cardiomyocytes in vivo. <i>Trends in Molecular Medicine</i> , 2012, 18, 575-576.	3.5	7
35	Proteomic Profiling Reveals Roles of Stress Response, Ca ²⁺ Transient Dysregulation, and Novel Signaling Pathways in Alcohol-Induced Cardiotoxicity. <i>Alcoholism: Clinical and Experimental Research</i> , 2020, 44, 2187-2199.	1.4	6
36	Cryopreservation and CO ₂ -independent culture of 3D cardiac progenitors for spaceflight experiments. <i>Biomaterials</i> , 2021, 269, 120673.	5.7	5

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37	Stem-Cell-Derived Cardiomyocytes Grow Up: Start Young and Train Harder. <i>Cell Stem Cell</i> , 2018, 22, 790-791.	5.2	4
38	Downstream bioprocessing of human pluripotent stem cell-derived therapeutics. <i>Engineering in Life Sciences</i> , 2022, 22, 667-680.	2.0	0