Joseph C. Wu

List of Publications by Citations

304 papers	18,501 citations	69 h-index	128 g-index
345 ext. papers	23,625 ext. citations	11.6 avg, IF	7.13 L-index

#	Paper	IF	Citations
304	Global epigenomic reconfiguration during mammalian brain development. *Science*, **2013**, 341, 1237905	33.3	1283
303	Chemically defined generation of human cardiomyocytes. *Nature Methods*, **2014**, 11, 855-60	21.6	927
302	Induced pluripotent stem cell technology: a decade of progress. *Nature Reviews Drug Discovery*, **2017**, 16, 115-130	64.1	701
301	COVID-19 and cardiovascular disease: from basic mechanisms to clinical perspectives. *Nature Reviews Cardiology*, **2020**, 17, 543-558	14.8	560
300	Patient-specific induced pluripotent stem cells as a model for familial dilated cardiomyopathy. *Science Translational Medicine*, **2012**, 4, 130ra47	17.5	497
299	Production of de novo cardiomyocytes: human pluripotent stem cell differentiation and direct reprogramming. *Cell Stem Cell*, **2012**, 10, 16-28	18	478
298	Abnormal calcium handling properties underlie familial hypertrophic cardiomyopathy pathology in patient-specific induced pluripotent stem cells. *Cell Stem Cell*, **2013**, 12, 101-13	18	449
297	Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. *Nature Medicine*, **2016**, 22, 547-56	50.5	425
296	Tumorigenicity as a clinical hurdle for pluripotent stem cell therapies. *Nature Medicine*, **2013**, 19, 998-1004	50.5	420
295	Drug screening using a library of human induced pluripotent stem cell-derived cardiomyocytes reveals disease-specific patterns of cardiotoxicity. *Circulation*, **2013**, 127, 1677-91	16.7	384
294	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. *Circulation*, **2017**, 135, 1832-1847	16.7	328
293	An antibody against SSEA-5 glycan on human pluripotent stem cells enables removal of teratoma-forming cells. *Nature Biotechnology*, **2011**, 29, 829-34	44.5	309
292	Human induced pluripotent stem cell-derived cardiomyocytes: insights into molecular, cellular, and functional phenotypes. *Circulation Research*, **2015**, 117, 80-8	15.7	252
291	Effect of sleep deprivation on brain metabolism of depressed patients. *American Journal of Psychiatry*, **1992**, 149, 538-43	11.9	242
290	Noninvasive optical imaging of firefly luciferase reporter gene expression in skeletal muscles of living mice. *Molecular Therapy*, **2001**, 4, 297-306	11.7	236
289	Screening drug-induced arrhythmia [corrected] using human induced pluripotent stem cell-derived cardiomyocytes and low-impedance microelectrode arrays. *Circulation*, **2013**, 128, S3-13	16.7	232
288	High-throughput screening of tyrosine kinase inhibitor cardiotoxicity with human induced pluripotent stem cells. *Science Translational Medicine*, **2017**, 9,	17.5	213

287	Atheroprotective roles of smooth muscle cell phenotypic modulation and the TCF21 disease gene as revealed by single-cell analysis. *Nature Medicine*, **2019**, 25, 1280-1289	50.5	198
286	Stem cell imaging: from bench to bedside. *Cell Stem Cell*, **2014**, 14, 431-44	18	185
285	Adult Stem Cell Therapy and Heart Failure, 2000 to 2016: A Systematic Review. *JAMA Cardiology*, **2016**, 1, 831-841	16.2	175
284	Cross talk of combined gene and cell therapy in ischemic heart disease: role of exosomal microRNA transfer. *Circulation*, **2014**, 130, S60-9	16.7	165
283	Identification of a new modulator of the intercalated disc in a zebrafish model of arrhythmogenic cardiomyopathy. *Science Translational Medicine*, **2014**, 6, 240ra74	17.5	165
282	Translation of Human-Induced Pluripotent Stem Cells: From Clinical Trial in a Dish to Precision Medicine. *Journal of the American College of Cardiology*, **2016**, 67, 2161-2176	15.1	153
281	Human Engineered Heart Muscles Engraft and Survive Long Term in a Rodent Myocardial Infarction Model. *Circulation Research*, **2015**, 117, 720-30	15.7	146
280	Induced pluripotent stem cells as a disease modeling and drug screening platform. *Journal of Cardiovascular Pharmacology*, **2012**, 60, 408-16	3.1	140
279	Patient-Specific and Genome-Edited Induced Pluripotent Stem Cell-Derived Cardiomyocytes Elucidate Single-Cell Phenotype of Brugada Syndrome. *Journal of the American College of Cardiology*, **2016**, 68, 2086-2096	15.1	138
278	Human stem cells for modeling heart disease and for drug discovery. *Science Translational Medicine*, **2014**, 6, 239ps6	17.5	138
277	Transplanted terminally differentiated induced pluripotent stem cells are accepted by immune mechanisms similar to self-tolerance. *Nature Communications*, **2014**, 5, 3903	17.4	127
276	Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy. *Cell Stem Cell*, **2015**, 17, 89-100	18	125
275	Genome editing of isogenic human induced pluripotent stem cells recapitulates long QT phenotype for drug testing. *Journal of the American College of Cardiology*, **2014**, 64, 451-9	15.1	123
274	A Tension-Based Model Distinguishes Hypertrophic versus Dilated Cardiomyopathy. *Cell*, **2016**, 165, 1147-1159	56.1	122
273	Modeling human diseases with induced pluripotent stem cells: from 2D to 3D and beyond. *Development (Cambridge)*, **2018**, 145,	6.6	121
272	Correction of human phospholamban R14del mutation associated with cardiomyopathy using targeted nucleases and combination therapy. *Nature Communications*, **2015**, 6, 6955	17.4	119
271	Patient-Specific iPSC-Derived Endothelial Cells Uncover Pathways that Protect against Pulmonary Hypertension in BMPR2 Mutation Carriers. *Cell Stem Cell*, **2017**, 20, 490-504.e5	18	117
270	Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators. *ELife*, **2017**, 6,	8.9	113

269	Induced pluripotent stem cells: at the heart of cardiovascular precision medicine. *Nature Reviews Cardiology*, **2016**, 13, 333-49	14.8	112
268	Molecular imaging of embryonic stem cell misbehavior and suicide gene ablation. *Cloning and Stem Cells*, **2007**, 9, 107-17		112
267	Hurdles to clinical translation of human induced pluripotent stem cells. *Journal of Clinical Investigation*, **2015**, 125, 2551-7	15.9	112
266	Distilling complexity to advance cardiac tissue engineering. *Science Translational Medicine*, **2016**, 8, 342ps13	17.5	108
265	Engineered heart tissues and induced pluripotent stem cells: Macro- and microstructures for disease modeling, drug screening, and translational studies. *Advanced Drug Delivery Reviews*, **2016**, 96, 234-244	18.5	105
264	Transcriptome Profiling of Patient-Specific Human iPSC-Cardiomyocytes Predicts Individual Drug Safety and Efficacy Responses In Vitro. *Cell Stem Cell*, **2016**, 19, 311-25	18	103
263	iPSC-derived cardiomyocytes reveal abnormal TGF- signalling in left ventricular non-compaction cardiomyopathy. *Nature Cell Biology*, **2016**, 18, 1031-42	23.4	103
262	A review of human pluripotent stem cell-derived cardiomyocytes for high-throughput drug discovery, cardiotoxicity screening, and publication standards. *Journal of Cardiovascular Translational Research*, **2013**, 6, 22-30	3.3	103
261	Comparable calcium handling of human iPSC-derived cardiomyocytes generated by multiple laboratories. *Journal of Molecular and Cellular Cardiology*, **2015**, 85, 79-88	5.8	102
260	Induced Pluripotent Stem Cells for Cardiovascular Disease Modeling and Precision Medicine: A Scientific Statement From the American Heart Association. *Circulation Genomic and Precision Medicine*, **2018**, 11, e000043	5.2	95
259	Human induced pluripotent stem cell-derived cardiomyocytes as an in vitro model for coxsackievirus B3-induced myocarditis and antiviral drug screening platform. *Circulation Research*, **2014**, 115, 556-66	15.7	95
258	Nondestructive nanostraw intracellular sampling for longitudinal cell monitoring. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E1866-E1874	11.5	94
257	Comparison of human induced pluripotent and embryonic stem cells: fraternal or identical twins?. *Molecular Therapy*, **2011**, 19, 635-8	11.7	94
256	Gut microbiota and cardiovascular disease: opportunities and challenges. *Microbiome*, **2020**, 8, 36	16.6	92
255	Global position paper on cardiovascular regenerative medicine. *European Heart Journal*, **2017**, 38, 2532-2546	35	90
254	Effect of human donor cell source on differentiation and function of cardiac induced pluripotent stem cells. *Journal of the American College of Cardiology*, **2014**, 64, 436-48	15.1	89
253	Multiscale technologies for treatment of ischemic cardiomyopathy. *Nature Nanotechnology*, **2017**, 12, 845-855	28.7	84
252	Concise Review: Review and Perspective of Cell Dosage and Routes of Administration From Preclinical and Clinical Studies of Stem Cell Therapy for Heart Disease. *Stem Cells Translational Medicine*, **2016**, 5, 186-91	6.9	83

251	Chemically Defined Culture and Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. *Current Protocols in Human Genetics*, **2015**, 87, 21.3.1-21.3.15	3.2	83
250	Defining human cardiac transcription factor hierarchies using integrated single-cell heterogeneity analysis. *Nature Communications*, **2018**, 9, 4906	17.4	83
249	Long term non-invasive imaging of embryonic stem cells using reporter genes. *Nature Protocols*, **2009**, 4, 1192-201	18.8	81
248	Genome editing of human embryonic stem cells and induced pluripotent stem cells with zinc finger nucleases for cellular imaging. *Circulation Research*, **2012**, 111, 1494-503	15.7	81
247	Human-Induced Pluripotent Stem Cell Model of Trastuzumab-Induced Cardiac Dysfunction in Patients With Breast Cancer. *Circulation*, **2019**, 139, 2451-2465	16.7	78
246	Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo. *Cell Stem Cell*, **2018**, 22, 501-513.e7	18	78
245	Potential Strategies to Address the Major Clinical Barriers Facing Stem Cell Regenerative Therapy for Cardiovascular Disease: A Review. *JAMA Cardiology*, **2016**, 1, 953-962	16.2	77
244	Activation of PDGF pathway links LMNA mutation to dilated cardiomyopathy. *Nature*, **2019**, 572, 335-340	50.4	75
243	Passive Stretch Induces Structural and Functional Maturation of Engineered Heart Muscle as Predicted by Computational Modeling. *Stem Cells*, **2018**, 36, 265-277	5.8	74
242	Determining the Pathogenicity of a Genomic Variant of Uncertain Significance Using CRISPR/Cas9 and Human-Induced Pluripotent Stem Cells. *Circulation*, **2018**, 138, 2666-2681	16.7	74
241	Characterization of the molecular mechanisms underlying increased ischemic damage in the aldehyde dehydrogenase 2 genetic polymorphism using a human induced pluripotent stem cell model system. *Science Translational Medicine*, **2014**, 6, 255ra130	17.5	73
240	Defective Signaling in the JAK-STAT Pathway Tracks with Chronic Inflammation and Cardiovascular Risk in Aging Humans. *Cell Systems*, **2016**, 3, 374-384.e4	10.6	73
239	Human Induced Pluripotent Stem Cells as a Platform for Personalized and Precision Cardiovascular Medicine. *Physiological Reviews*, **2016**, 96, 1093-126	47.9	72
238	Decreasing striatal 6-FDOPA uptake with increasing duration of cocaine withdrawal. *Neuropsychopharmacology*, **1997**, 17, 402-9	8.7	72
237	Single-cell RNA sequencing in cardiovascular development, disease and medicine. *Nature Reviews Cardiology*, **2020**, 17, 457-473	14.8	71
236	Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes. *Cell Reports*, **2020**, 32, 107925	10.6	70
235	Human AML-iPSCs Reacquire Leukemic Properties after Differentiation and Model Clonal Variation of Disease. *Cell Stem Cell*, **2017**, 20, 329-344.e7	18	69
234	Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue. *Biomaterials*, **2017**, 131, 47-57	15.6	69

233	Genome-Wide Temporal Profiling of Transcriptome and Open Chromatin of Early Cardiomyocyte Differentiation Derived From hiPSCs and hESCs. *Circulation Research*, **2017**, 121, 376-391	15.7	69
232	Transcriptional profiling of reporter genes used for molecular imaging of embryonic stem cell transplantation. *Physiological Genomics*, **2006**, 25, 29-38	3.6	68
231	Patient and Disease-Specific Induced Pluripotent Stem Cells for Discovery of Personalized Cardiovascular Drugs and Therapeutics. *Pharmacological Reviews*, **2020**, 72, 320-342	22.5	67
230	Microfluidic Single-Cell Analysis of Transplanted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes After Acute Myocardial Infarction. *Circulation*, **2015**, 132, 762-771	16.7	66
229	Use of human induced pluripotent stem cell-derived cardiomyocytes to assess drug cardiotoxicity. *Nature Protocols*, **2018**, 13, 3018-3041	18.8	66
228	Large-Scale Single-Cell RNA-Seq Reveals Molecular Signatures of Heterogeneous Populations of Human Induced Pluripotent Stem Cell-Derived Endothelial Cells. *Circulation Research*, **2018**, 123, 443-450	15.7	65
227	A Human iPSC Double-Reporter System Enables Purification of Cardiac Lineage Subpopulations with Distinct Function and Drug Response Profiles. *Cell Stem Cell*, **2019**, 24, 802-811.e5	18	64
226	A human pluripotent stem cell surface N-glycoproteome resource reveals markers, extracellular epitopes, and drug targets. *Stem Cell Reports*, **2014**, 3, 185-203	8	62
225	Effects of ionizing radiation on self-renewal and pluripotency of human embryonic stem cells. *Cancer Research*, **2010**, 70, 5539-48	10.1	62
224	Cross-Site Reliability of Human Induced Pluripotent stem cell-derived Cardiomyocyte Based Safety Assays Using Microelectrode Arrays: Results from a Blinded CiPA Pilot Study. *Toxicological Sciences*, **2018**, 164, 550-562	4.4	61
223	Emerging Research Directions in Adult Congenital Heart Disease: A Report From an NHLBI/ACHA Working Group. *Journal of the American College of Cardiology*, **2016**, 67, 1956-64	15.1	61
222	Genome Editing of Induced Pluripotent Stem Cells to Decipher Cardiac Channelopathy Variant. *Journal of the American College of Cardiology*, **2018**, 72, 62-75	15.1	61
221	Single-Cell RNA Sequencing Unveils Unique Transcriptomic Signatures of Organ-Specific Endothelial Cells. *Circulation*, **2020**, 142, 1848-1862	16.7	59
220	Cardiovascular molecular imaging. *Radiology*, **2007**, 244, 337-55	20.5	58
219	Generation of Quiescent Cardiac Fibroblasts From Human Induced Pluripotent Stem Cells for In Vitro Modeling of Cardiac Fibrosis. *Circulation Research*, **2019**, 125, 552-566	15.7	57
218	Human Induced Pluripotent Stem Cell (hiPSC)-Derived Cells to Assess Drug Cardiotoxicity: Opportunities and Problems. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 83-103	17.9	56
217	Use of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. *Circulation Research*, **2019**, 125, e75-e92	15.7	55
216	Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix. *Nature Biomedical Engineering*, **2018**, 2, 104-113	19	55

215	Generation of human iPSCs from human peripheral blood mononuclear cells using non-integrative Sendai virus in chemically defined conditions. *Methods in Molecular Biology*, **2013**, 1036, 81-8	1.4	55
214	Universal intracellular biomolecule delivery with precise dosage control. *Science Advances*, **2018**, 4, eaat8131	14.1	55
213	Finding the rhythm of sudden cardiac death: new opportunities using induced pluripotent stem cell-derived cardiomyocytes. *Circulation Research*, **2015**, 116, 1989-2004	15.7	54
212	Teratoma formation: a tool for monitoring pluripotency in stem cell research. *Current Protocols in Stem Cell Biology*, **2015**, 32, 4A.8.1-4A.8.17	2.8	54
211	A Premature Termination Codon Mutation in MYBPC3 Causes Hypertrophic Cardiomyopathy via Chronic Activation of Nonsense-Mediated Decay. *Circulation*, **2019**, 139, 799-811	16.7	54
210	Transcriptomic Profiling of the Developing Cardiac Conduction System at Single-Cell Resolution. *Circulation Research*, **2019**, 125, 379-397	15.7	53
209	Contractile force generation by 3D hiPSC-derived cardiac tissues is enhanced by rapid establishment of cellular interconnection in matrix with muscle-mimicking stiffness. *Biomaterials*, **2017**, 131, 111-120	15.6	52
208	Modeling Cardiovascular Risks of E-Cigarettes With Human-Induced Pluripotent Stem Cell-Derived Endothelial Cells. *Journal of the American College of Cardiology*, **2019**, 73, 2722-2737	15.1	52
207	Cardiac stem cell biology: glimpse of the past, present, and future. *Circulation Research*, **2014**, 114, 21-7	15.7	49
206	Genetic and Epigenetic Regulation of Human Cardiac Reprogramming and Differentiation in Regenerative Medicine. *Annual Review of Genetics*, **2015**, 49, 461-84	14.5	49
205	Molecular imaging of cardiovascular gene products. *Journal of Nuclear Cardiology*, **2004**, 11, 491-505	2.1	49
204	Specific Imaging of Bacterial Infection Using 6?-F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. *Journal of Nuclear Medicine*, **2017**, 58, 1679-1684	8.9	48
203	Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes as Models for Cardiac Channelopathies: A Primer for Non-Electrophysiologists. *Circulation Research*, **2018**, 123, 224-243	15.7	48
202	Progress, obstacles, and limitations in the use of stem cells in organ-on-a-chip models. *Advanced Drug Delivery Reviews*, **2019**, 140, 3-11	18.5	48
201	Molecular and functional resemblance of differentiated cells derived from isogenic human iPSCs and SCNT-derived ESCs. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11111-E11120	11.5	47
200	Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers. *JACC: Cardiovascular Imaging*, **2015**, 8, 873-84	8.4	46
199	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. *European Heart Journal*, **2019**, 40, 3685-3695	9.5	45
198	Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes. *Cell Stem Cell*, **2020**, 27, 50-63.e5	18	45

197	Pluripotent Stem Cell-Derived Cardiomyocytes as a Platform for Cell Therapy Applications: Progress and Hurdles for Clinical Translation. *Molecular Therapy*, **2018**, 26, 1624-1634	11.7	45
196	Time-dependent evolution of functional vs. remodeling signaling in induced pluripotent stem cell-derived cardiomyocytes and induced maturation with biomechanical stimulation. *FASEB Journal* , **2016**, 30, 1464-79	0.9	45
195	Big bottlenecks in cardiovascular tissue engineering. *Communications Biology*, **2018**, 1, 199	6.7	45
194	MicroRNA-mediated regulation of differentiation and trans-differentiation in stem cells. *Advanced Drug Delivery Reviews*, **2015**, 88, 3-15	18.5	44
193	Novel codon-optimized mini-intronic plasmid for efficient, inexpensive, and xeno-free induction of pluripotency. *Scientific Reports*, **2015**, 5, 8081	4.9	44
192	Effects of transendocardial CD34+ cell transplantation in patients with ischemic cardiomyopathy. *Circulation: Cardiovascular Interventions*, **2014**, 7, 552-9	6	43
191	High efficiency differentiation of human pluripotent stem cells to cardiomyocytes and characterization by flow cytometry. *Journal of Visualized Experiments*, **2014**, 52010	1.6	43
190	Proteomic analysis of reporter genes for molecular imaging of transplanted embryonic stem cells. *Proteomics*, **2006**, 6, 6234-49	4.8	43
189	Induced pluripotent stem cells. *JAMA - Journal of the American Medical Association*, **2015**, 313, 1613-4	27.4	42
188	Telomere shortening and metabolic compromise underlie dystrophic cardiomyopathy. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13120-13125	11.5	42
187	Generation of Endothelial Cells From Human Pluripotent Stem Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 1317-1329	9.4	42
186	A computational model of induced pluripotent stem-cell derived cardiomyocytes incorporating experimental variability from multiple data sources. *Journal of Physiology*, **2019**, 597, 4533-4564	3.9	38
185	Intracoronary transplantation of CD34(+) cells is associated with improved myocardial perfusion in patients with nonischemic dilated cardiomyopathy. *Journal of Cardiac Failure*, **2015**, 21, 145-52	3.3	38
184	A Comprehensive TALEN-Based Knockout Library for Generating Human-Induced Pluripotent Stem Cell-Based Models for Cardiovascular Diseases. *Circulation Research*, **2017**, 120, 1561-1571	15.7	37
183	Accurate nanoelectrode recording of human pluripotent stem cell-derived cardiomyocytes for assaying drugs and modeling disease. *Microsystems and Nanoengineering*, **2017**, 3, 16080	7.7	37
182	Cardiovascular Risks in Patients with COVID-19: Potential Mechanisms and Areas of Uncertainty. *Current Cardiology Reports*, **2020**, 22, 34	4.2	37
181	Comparison of Non-Coding RNAs in Exosomes and Functional Efficacy of Human Embryonic Stem Cell- versus Induced Pluripotent Stem Cell-Derived Cardiomyocytes. *Stem Cells*, **2017**, 35, 2138-2149	5.8	37
180	Rapid and efficient conversion of integration-free human induced pluripotent stem cells to GMP-grade culture conditions. *PLoS ONE*, **2014**, 9, e94231	3.7	36

179	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. *Nature Aging*, **2021**, 1, 598-615		36
178	Systematic Characterization of Long Noncoding RNAs Reveals the Contrasting Coordination of Cis- and Trans-Molecular Regulation in Human Fetal and Adult Hearts. *Circulation: Cardiovascular Genetics*, **2016**, 9, 110-8		35
177	Relationship between echocardiographic and magnetic resonance derived measures of right ventricular size and function in patients with pulmonary hypertension. *Journal of the American Society of Echocardiography*, **2014**, 27, 405-12	5.8	35
176	Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome. *Cell Stem Cell*, **2020**, 27, 574-589.e8	18	34
175	[Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. *Biomaterials*, **2015**, 37, 289-98	15.6	33
174	Comparison of Non-human Primate versus Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Treatment of Myocardial Infarction. *Stem Cell Reports*, **2018**, 10, 422-435	8	33
173	Reprogramming and transdifferentiation for cardiovascular development and regenerative medicine: where do we stand?. *EMBO Molecular Medicine*, **2015**, 7, 1090-103	12	33
172	Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes. *American Journal of Translational Research (discontinued)*, **2014**, 6, 724-35	3	32
171	Pravastatin reverses obesity-induced dysfunction of induced pluripotent stem cell-derived endothelial cells via a nitric oxide-dependent mechanism. *European Heart Journal*, **2015**, 36, 806-16	9.5	31
170	Electrophysiologic Characterization of Calcium Handling in Human Induced Pluripotent Stem Cell-Derived Atrial Cardiomyocytes. *Stem Cell Reports*, **2018**, 10, 1867-1878	8	31
169	Endothelial deletion of Ino80 disrupts coronary angiogenesis and causes congenital heart disease. *Nature Communications*, **2018**, 9, 368	17.4	30
168	Current perspectives on imaging cardiac stem cell therapy. *Journal of Nuclear Medicine*, **2010**, 51 Suppl 1, 128S-136S	8.9	30
167	Splice-Junction-Based Mapping of Alternative Isoforms in the Human Proteome. *Cell Reports*, **2019**, 29, 3751-3765.e5	10.6	30
166	Telomere shortening is a hallmark of genetic cardiomyopathies. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9276-9281	11.5	30
165	Single cell expression analysis reveals anatomical and cell cycle-dependent transcriptional shifts during heart development. *Development (Cambridge)*, **2019**, 146,	6.6	29
164	Enabling consistency in pluripotent stem cell-derived products for research and development and clinical applications through material standards. *Stem Cells Translational Medicine*, **2015**, 4, 217-23	6.9	29
163	Fibrosis of the Neonatal Mouse Heart After Cryoinjury Is Accompanied by Wnt Signaling Activation and Epicardial-to-Mesenchymal Transition. *Journal of the American Heart Association*, **2016**, 5, e002457	6	29
162	Towards Precision Medicine With Human iPSCs for Cardiac Channelopathies. *Circulation Research*, **2019**, 125, 653-658	15.7	28

161	Modeling Cardiovascular Diseases with Patient-Specific Human Pluripotent Stem Cell-Derived Cardiomyocytes. *Methods in Molecular Biology*, **2016**, 1353, 119-30	1.4	28
160	Clinical trial in a dish using iPSCs shows lovastatin improves endothelial dysfunction and cellular cross-talk in LMNA cardiomyopathy. *Science Translational Medicine*, **2020**, 12,	17.5	28
159	Single-Cell RNA Sequencing of Human Embryonic Stem Cell Differentiation Delineates Adverse Effects of Nicotine on Embryonic Development. *Stem Cell Reports*, **2019**, 12, 772-786	8	27
158	A Rapid, High-Quality, Cost-Effective, Comprehensive and Expandable Targeted Next-Generation Sequencing Assay for Inherited Heart Diseases. *Circulation Research*, **2015**, 117, 603-11	15.7	27
157	Cardiac tissue slice transplantation as a model to assess tissue-engineered graft thickness, survival, and function. *Circulation*, **2014**, 130, S77-86	16.7	27
156	Truncating Variants in NAA15 Are Associated with Variable Levels of Intellectual Disability, Autism Spectrum Disorder, and Congenital Anomalies. *American Journal of Human Genetics*, **2018**, 102, 985-994	11	26
155	Extracellular Matrix can Recover the Downregulation of Adhesion Molecules after Cell Detachment and Enhance Endothelial Cell Engraftment. *Scientific Reports*, **2015**, 5, 10902	4.9	26
154	Right Heart Score for Predicting Outcome in Idiopathic, Familial, or Drug- and Toxin-Associated Pulmonary Arterial Hypertension. *JACC: Cardiovascular Imaging*, **2015**, 8, 627-38	8.4	26
153	Genome Editing in Cardiovascular Biology. *Circulation Research*, **2017**, 120, 778-780	15.7	25
152	RRAD mutation causes electrical and cytoskeletal defects in cardiomyocytes derived from a familial case of Brugada syndrome. *European Heart Journal*, **2019**, 40, 3081-3094	9.5	25
151	Proteasome-Dependent Regulation of Distinct Metabolic States During Long-Term Culture of Human iPSC-Derived Cardiomyocytes. *Circulation Research*, **2019**, 125, 90-103	15.7	25
150	Transcriptomic and epigenomic differences in human induced pluripotent stem cells generated from six reprogramming methods. *Nature Biomedical Engineering*, **2017**, 1, 826-837	19	24
149	Workshop Report: FDA Workshop on Improving Cardiotoxicity Assessment With Human-Relevant Platforms. *Circulation Research*, **2019**, 125, 855-867	15.7	24
148	Personalized medicine in cardio-oncology: the role of induced pluripotent stem cell. *Cardiovascular Research*, **2019**, 115, 949-959	9.9	24
147	Efficacy of CD34+ Stem Cell Therapy in Nonischemic Dilated Cardiomyopathy Is Absent in Patients With Diabetes but Preserved in Patients With Insulin Resistance. *Stem Cells Translational Medicine*, **2016**, 5, 632-8	6.9	23
146	Comparison of Magnetic Resonance Imaging and Serum Biomarkers for Detection of Human Pluripotent Stem Cell-Derived Teratomas. *Stem Cell Reports*, **2016**, 6, 176-87	8	23
145	Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes. *Cell Stem Cell*, **2021**, 28, 938-954.e9	18	23
144	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 7089-7094	11.5	22

143	Stage-specific Effects of Bioactive Lipids on Human iPSC Cardiac Differentiation and Cardiomyocyte Proliferation. *Scientific Reports*, **2018**, 8, 6618	4.9	22
142	Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic Aneurysm. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 1796-1805	9.4	22
141	Generation of iPSCs as a Pooled Culture Using Magnetic Activated Cell Sorting of Newly Reprogrammed Cells. *PLoS ONE*, **2015**, 10, e0134995	3.7	22
140	Allogeneic Mesenchymal Stromal Cells Overexpressing Mutant Human Hypoxia-Inducible Factor 1- (HIF1-)in an Ovine Model of Acute Myocardial Infarction. *Journal of the American Heart Association* , **2016**, 5,	6	22
139	Effects of Spaceflight on Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Structure and Function. *Stem Cell Reports*, **2019**, 13, 960-969	8	21
138	SETD7 Drives Cardiac Lineage Commitment through Stage-Specific Transcriptional Activation. *Cell Stem Cell*, **2018**, 22, 428-444.e5	18	20
137	Increased Pyruvate Dehydrogenase Kinase 4 Expression in Lung Pericytes Is Associated with Reduced Endothelial-Pericyte Interactions and Small Vessel Loss in Pulmonary Arterial Hypertension. *American Journal of Pathology*, **2016**, 186, 2500-14	5.8	20
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