

William T Pu

List of Publications by Citations

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177
papers

16,433
citations

70
h-index

126
g-index

206
ext. papers

19,394
ext. citations

12
avg, IF

6.53
L-index

#	Paper	IF	Citations
177	Endothelial-to-mesenchymal transition contributes to cardiac fibrosis. <i>Nature Medicine</i> , 2007 , 13, 952-61	50.5	1528
176	Epicardial progenitors contribute to the cardiomyocyte lineage in the developing heart. <i>Nature</i> , 2008 , 454, 109-13	50.4	783
175	Modeling the mitochondrial cardiomyopathy of Barth syndrome with induced pluripotent stem cell and heart-on-chip technologies. <i>Nature Medicine</i> , 2014 , 20, 616-23	50.5	604
174	De novo cardiomyocytes from within the activated adult heart after injury. <i>Nature</i> , 2011 , 474, 640-4	50.4	515
173	Altered microRNA expression in human heart disease. <i>Physiological Genomics</i> , 2007 , 31, 367-73	3.6	501
172	Modified mRNA directs the fate of heart progenitor cells and induces vascular regeneration after myocardial infarction. <i>Nature Biotechnology</i> , 2013 , 31, 898-907	44.5	418
171	YAP1, the nuclear target of Hippo signaling, stimulates heart growth through cardiomyocyte proliferation but not hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2394-9	11.5	368
170	Adult mouse epicardium modulates myocardial injury by secreting paracrine factors. <i>Journal of Clinical Investigation</i> , 2011 , 121, 1894-904	15.9	362
169	MicroRNA-1 negatively regulates expression of the hypertrophy-associated calmodulin and Mef2a genes. <i>Molecular and Cellular Biology</i> , 2009 , 29, 2193-204	4.8	320
168	Adult cardiac-resident MSC-like stem cells with a proepicardial origin. <i>Cell Stem Cell</i> , 2011 , 9, 527-40	18	313
167	mir-17-92 cluster is required for and sufficient to induce cardiomyocyte proliferation in postnatal and adult hearts. <i>Circulation Research</i> , 2013 , 112, 1557-66	15.7	284
166	Co-occupancy by multiple cardiac transcription factors identifies transcriptional enhancers active in heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5632-7	11.5	276
165	Endocardial and epicardial epithelial to mesenchymal transitions in heart development and disease. <i>Circulation Research</i> , 2012 , 110, 1628-45	15.7	260
164	Cardiac-specific YAP activation improves cardiac function and survival in an experimental murine MI model. <i>Circulation Research</i> , 2014 , 115, 354-63	15.7	239
163	Single-Cell Resolution of Temporal Gene Expression during Heart Development. <i>Developmental Cell</i> , 2016 , 39, 480-490	10.2	231
162	Septum transversum-derived mesothelium gives rise to hepatic stellate cells and perivascular mesenchymal cells in developing mouse liver. <i>Hepatology</i> , 2011 , 53, 983-95	11.2	211
161	Morphogenesis of the right ventricle requires myocardial expression of Gata4. <i>Journal of Clinical Investigation</i> , 2005 , 115, 1522-31	15.9	202

160	Evaluation of the role of I(KACh) in atrial fibrillation using a mouse knockout model. <i>Journal of the American College of Cardiology</i> , 2001 , 37, 2136-43	15.1	197
159	Spectrum of heart disease associated with murine and human GATA4 mutation. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 677-85	5.8	187
158	Genetic Basis for Congenital Heart Disease: Revisited: A Scientific Statement From the American Heart Association. <i>Circulation</i> , 2018 , 138, e653-e711	16.7	184
157	GATA4 is a dosage-sensitive regulator of cardiac morphogenesis. <i>Developmental Biology</i> , 2004 , 275, 235-44	3.1	183
156	PRC2 directly methylates GATA4 and represses its transcriptional activity. <i>Genes and Development</i> , 2012 , 26, 37-42	12.6	175
155	WT1 regulates epicardial epithelial to mesenchymal transition through E-catenin and retinoic acid signaling pathways. <i>Developmental Biology</i> , 2011 , 356, 421-31	3.1	173
154	Pi3kcb links Hippo-YAP and PI3K-AKT signaling pathways to promote cardiomyocyte proliferation and survival. <i>Circulation Research</i> , 2015 , 116, 35-45	15.7	172
153	Reassessment of Isl1 and Nkx2-5 cardiac fate maps using a Gata4-based reporter of Cre activity. <i>Developmental Biology</i> , 2008 , 323, 98-104	3.1	165
152	Polycomb repressive complex 2 regulates normal development of the mouse heart. <i>Circulation Research</i> , 2012 , 110, 406-15	15.7	155
151	Platelet-derived growth factor receptor beta signaling is required for efficient epicardial cell migration and development of two distinct coronary vascular smooth muscle cell populations. <i>Circulation Research</i> , 2008 , 103, 1393-401	15.7	155
150	Synergistic effects of the GATA-4-mediated miR-144/451 cluster in protection against simulated ischemia/reperfusion-induced cardiomyocyte death. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 841-50	5.8	153
149	Gata4 is required for maintenance of postnatal cardiac function and protection from pressure overload-induced heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14471-6	11.5	147
148	Development of heart valves requires Gata4 expression in endothelial-derived cells. <i>Development (Cambridge)</i> , 2006 , 133, 3607-18	6.6	144
147	Vessel formation. De novo formation of a distinct coronary vascular population in neonatal heart. <i>Science</i> , 2014 , 345, 90-4	33.3	136
146	Impaired mesenchymal cell function in Gata4 mutant mice leads to diaphragmatic hernias and primary lung defects. <i>Developmental Biology</i> , 2007 , 301, 602-14	3.1	136
145	Cardiomyocyte Maturation: New Phase in Development. <i>Circulation Research</i> , 2020 , 126, 1086-1106	15.7	131
144	Enhancing the precision of genetic lineage tracing using dual recombinases. <i>Nature Medicine</i> , 2017 , 23, 1488-1498	50.5	122
143	Genetic fate mapping demonstrates contribution of epicardium-derived cells to the annulus fibrosis of the mammalian heart. <i>Developmental Biology</i> , 2010 , 338, 251-61	3.1	119

142	Cellular origin and developmental program of coronary angiogenesis. <i>Circulation Research</i> , 2015 , 116, 515-30	15.7	117
141	Yap1 is required for endothelial to mesenchymal transition of the atrioventricular cushion. <i>Journal of Biological Chemistry</i> , 2014 , 289, 18681-92	5.4	117
140	Nkx2-5- and Isl1-expressing cardiac progenitors contribute to proepicardium. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 375, 450-3	3.4	113
139	Overexpression of HAX-1 protects cardiac myocytes from apoptosis through caspase-9 inhibition. <i>Circulation Research</i> , 2006 , 99, 415-23	15.7	110
138	Therapeutic role of miR-19a/19b in cardiac regeneration and protection from myocardial infarction. <i>Nature Communications</i> , 2019 , 10, 1802	17.4	108
137	The complex genetics of hypoplastic left heart syndrome. <i>Nature Genetics</i> , 2017 , 49, 1152-1159	36.3	107
136	Targeted and genome-wide sequencing reveal single nucleotide variations impacting specificity of Cas9 in human stem cells. <i>Nature Communications</i> , 2014 , 5, 5507	17.4	106
135	A multivariate approach for integrating genome-wide expression data and biological knowledge. <i>Bioinformatics</i> , 2006 , 22, 2373-80	7.2	106
134	A Tbx1-Six1/Eya1-Fgf8 genetic pathway controls mammalian cardiovascular and craniofacial morphogenesis. <i>Journal of Clinical Investigation</i> , 2011 , 121, 1585-95	15.9	105
133	A tissue-engineered scale model of the heart ventricle. <i>Nature Biomedical Engineering</i> , 2018 , 2, 930-941	19	103
132	Dynamic GATA4 enhancers shape the chromatin landscape central to heart development and disease. <i>Nature Communications</i> , 2014 , 5, 4907	17.4	102
131	Dilated cardiomyopathy resulting from high-level myocardial expression of Cre-recombinase. <i>Journal of Cardiac Failure</i> , 2006 , 12, 392-8	3.3	99
130	Thymosin beta 4 treatment after myocardial infarction does not reprogram epicardial cells into cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 43-7	5.8	98
129	GATA4 is a direct transcriptional activator of cyclin D2 and Cdk4 and is required for cardiomyocyte proliferation in anterior heart field-derived myocardium. <i>Molecular and Cellular Biology</i> , 2008 , 28, 5420-31	4.8	98
128	Gata4 is essential for the maintenance of jejunal-ileal identities in the adult mouse small intestine. <i>Molecular and Cellular Biology</i> , 2006 , 26, 9060-70	4.8	98
127	A simple method for deriving functional MSCs and applied for osteogenesis in 3D scaffolds. <i>Scientific Reports</i> , 2013 , 3, 2243	4.9	95
126	Heart failure-associated changes in RNA splicing of sarcomere genes. <i>Circulation: Cardiovascular Genetics</i> , 2010 , 3, 138-46		91
125	Genetic and environmental risk factors in congenital heart disease functionally converge in protein networks driving heart development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14035-40	11.5	90

124	NFAT transcription factors are critical survival factors that inhibit cardiomyocyte apoptosis during phenylephrine stimulation in vitro. <i>Circulation Research</i> , 2003 , 92, 725-31	15.7	90
123	Transcription factor gata4 regulates cardiac BCL2 gene expression in vitro and in vivo. <i>FASEB Journal</i> , 2006 , 20, 800-2	0.9	87
122	Optimization of genome engineering approaches with the CRISPR/Cas9 system. <i>PLoS ONE</i> , 2014 , 9, e105779	3.7	86
121	Strategies for cardiac regeneration and repair. <i>Science Translational Medicine</i> , 2014 , 6, 239rv1	17.5	86
120	Equal modulation of endothelial cell function by four distinct tissue-specific mesenchymal stem cells. <i>Angiogenesis</i> , 2012 , 15, 443-55	10.6	86
119	Transcription factor genes Smad4 and Gata4 cooperatively regulate cardiac valve development. [corrected]. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4006-11	11.5	86
118	Cardiac Regeneration: Lessons From Development. <i>Circulation Research</i> , 2017 , 120, 941-959	15.7	84
117	pICln inhibits snRNP biogenesis by binding core spliceosomal proteins. <i>Molecular and Cellular Biology</i> , 1999 , 19, 4113-20	4.8	83
116	Interrogating translational efficiency and lineage-specific transcriptomes using ribosome affinity purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15395-400	11.5	80
115	Serine 105 phosphorylation of transcription factor GATA4 is necessary for stress-induced cardiac hypertrophy in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12331-6	11.5	79
114	A Tbx1-Six1/Eya1-Fgf8 genetic pathway controls mammalian cardiovascular and craniofacial morphogenesis. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2060-2060	15.9	78
113	Molecular mechanisms of arrhythmogenic cardiomyopathy. <i>Nature Reviews Cardiology</i> , 2019 , 16, 519-537	14.8	77
112	Analysis of Cardiac Myocyte Maturation Using CASA AV, a Platform for Rapid Dissection of Cardiac Myocyte Gene Function In Vivo. <i>Circulation Research</i> , 2017 , 120, 1874-1888	15.7	76
111	miR-155 inhibits expression of the MEF2A protein to repress skeletal muscle differentiation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 35339-35346	5.4	76
110	WT1 maintains adrenal-gonadal primordium identity and marks a population of AGP-like progenitors within the adrenal gland. <i>Developmental Cell</i> , 2013 , 27, 5-18	10.2	75
109	Dissecting spatio-temporal protein networks driving human heart development and related disorders. <i>Molecular Systems Biology</i> , 2010 , 6, 381	12.2	72
108	GATA4 regulates Fgf16 to promote heart repair after injury. <i>Development (Cambridge)</i> , 2016 , 143, 936-40	15.6	70
107	Regulation of GATA4 transcriptional activity in cardiovascular development and disease. <i>Current Topics in Developmental Biology</i> , 2012 , 100, 143-69	5.3	70

106	Timing of myocardial trpm7 deletion during cardiogenesis variably disrupts adult ventricular function, conduction, and repolarization. <i>Circulation</i> , 2013 , 128, 101-14	16.7	70
105	Efficient, footprint-free human iPSC genome editing by consolidation of Cas9/CRISPR and piggyBac technologies. <i>Nature Protocols</i> , 2017 , 12, 88-103	18.8	68
104	Uracil interference, a rapid and general method for defining protein-DNA interactions involving the 5-methyl group of thymines: the GCN4-DNA complex. <i>Nucleic Acids Research</i> , 1992 , 20, 771-5	20.1	68
103	Developmental changes in ventricular diastolic function correlate with changes in ventricular myoarchitecture in normal mouse embryos. <i>Circulation Research</i> , 2003 , 93, 857-65	15.7	66
102	A dynamic H3K27ac signature identifies VEGFA-stimulated endothelial enhancers and requires EP300 activity. <i>Genome Research</i> , 2013 , 23, 917-27	9.7	64
101	Acetylation of VGLL4 Regulates Hippo-YAP Signaling and Postnatal Cardiac Growth. <i>Developmental Cell</i> , 2016 , 39, 466-479	10.2	64
100	Conditional ablation of Gata4 and Fog2 genes in mice reveals their distinct roles in mammalian sexual differentiation. <i>Developmental Biology</i> , 2011 , 353, 229-41	3.1	63
99	Congenital heart disease-causing Gata4 mutation displays functional deficits in vivo. <i>PLoS Genetics</i> , 2012 , 8, e1002690	6	63
98	Genetic Cre-loxP assessment of epicardial cell fate using Wt1-driven Cre alleles. <i>Circulation Research</i> , 2012 , 111, e276-80	15.7	58
97	Expression and function of microRNAs in heart disease. <i>Current Drug Targets</i> , 2010 , 11, 913-25	3	57
96	Fog2 is critical for cardiac function and maintenance of coronary vasculature in the adult mouse heart. <i>Journal of Clinical Investigation</i> , 2009 , 119, 1462-76	15.9	55
95	Insights Into the Pathogenesis of Catecholaminergic Polymorphic Ventricular Tachycardia From Engineered Human Heart Tissue. <i>Circulation</i> , 2019 , 140, 390-404	16.7	52
94	Uncoupling protein 2 modulates cell viability in adult rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H829-35	5.2	50
93	Long non-coding RNAs link extracellular matrix gene expression to ischemic cardiomyopathy. <i>Cardiovascular Research</i> , 2016 , 112, 543-554	9.9	49
92	VEGF amplifies transcription through ETS1 acetylation to enable angiogenesis. <i>Nature Communications</i> , 2017 , 8, 383	17.4	48
91	Insulin-Like Growth Factor 1 Receptor-Dependent Pathway Drives Epicardial Adipose Tissue Formation After Myocardial Injury. <i>Circulation</i> , 2017 , 135, 59-72	16.7	48
90	Epicardial epithelial-to-mesenchymal transition in injured heart. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 2781-3	5.6	47
89	Mitochondrial Cardiomyopathy Caused by Elevated Reactive Oxygen Species and Impaired Cardiomyocyte Proliferation. <i>Circulation Research</i> , 2018 , 122, 74-87	15.7	46

88	Gene Therapy for Catecholaminergic Polymorphic Ventricular Tachycardia by Inhibition of Ca/Calmodulin-Dependent Kinase II. <i>Circulation</i> , 2019 , 140, 405-419	16.7	45
87	pICln binds to a mammalian homolog of a yeast protein involved in regulation of cell morphology. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10811-4	5.4	45
86	Trbp regulates heart function through microRNA-mediated Sox6 repression. <i>Nature Genetics</i> , 2015 , 47, 776-83	36.3	44
85	CompleteMOTIFs: DNA motif discovery platform for transcription factor binding experiments. <i>Bioinformatics</i> , 2011 , 27, 715-7	7.2	42
84	Harnessing Hippo in the heart: Hippo/Yap signaling and applications to heart regeneration and rejuvenation. <i>Stem Cell Research</i> , 2014 , 13, 571-81	1.6	41
83	Epicardium-to-fat transition in injured heart. <i>Cell Research</i> , 2014 , 24, 1367-9	24.7	39
82	Divergent Requirements for EZH1 in Heart Development Versus Regeneration. <i>Circulation Research</i> , 2017 , 121, 106-112	15.7	38
81	Inflammatory signals from photoreceptor modulate pathological retinal angiogenesis via c-Fos. <i>Journal of Experimental Medicine</i> , 2017 , 214, 1753-1767	16.6	38
80	Identification of a hybrid myocardial zone in the mammalian heart after birth. <i>Nature Communications</i> , 2017 , 8, 87	17.4	38
79	Host non-inflammatory neutrophils mediate the engraftment of bioengineered vascular networks. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	37
78	Nuclear receptor ROR α regulates pathologic retinal angiogenesis by modulating SOCS3-dependent inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10401-6	11.5	37
77	A reference map of murine cardiac transcription factor chromatin occupancy identifies dynamic and conserved enhancers. <i>Nature Communications</i> , 2019 , 10, 4907	17.4	37
76	Hierarchical and stage-specific regulation of murine cardiomyocyte maturation by serum response factor. <i>Nature Communications</i> , 2018 , 9, 3837	17.4	36
75	Mapping cell type-specific transcriptional enhancers using high affinity, lineage-specific Ep300 bioChIP-seq. <i>ELife</i> , 2017 , 6,	8.9	35
74	Epicardium is required for cardiac seeding by yolk sac macrophages, precursors of resident macrophages of the adult heart. <i>Developmental Biology</i> , 2016 , 413, 153-159	3.1	35
73	Mesenchymal stem/stromal cells (MSC) transfected with stromal derived factor 1 (SDF-1) for therapeutic neovascularization: enhancement of cell recruitment and entrapment. <i>Medical Hypotheses</i> , 2007 , 68, 1268-71	3.8	35
72	Comprehensive analysis of promoter-proximal RNA polymerase II pausing across mammalian cell types. <i>Genome Biology</i> , 2016 , 17, 120	18.3	35
71	Novel Roles of GATA4/6 in the Postnatal Heart Identified through Temporally Controlled, Cardiomyocyte-Specific Gene Inactivation by Adeno-Associated Virus Delivery of Cre Recombinase. <i>PLoS ONE</i> , 2015 , 10, e0128105	3.7	33

70	Myocardial regeneration: expanding the repertoire of thymosin β in the ischemic heart. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1269, 92-101	6.5	33
69	Endostatin lowers blood pressure via nitric oxide and prevents hypertension associated with VEGF inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11306-11	11.5	32
68	EED orchestration of heart maturation through interaction with HDACs is H3K27me3-independent. <i>ELife</i> , 2017 , 6,	8.9	30
67	Conditional Gata4 deletion in mice induces bile acid absorption in the proximal small intestine. <i>Gut</i> , 2010 , 59, 888-95	19.2	30
66	Dimerization of leucine zippers analyzed by random selection. <i>Nucleic Acids Research</i> , 1993 , 21, 4348-55	20.1	30
65	SOCS3 in retinal neurons and glial cells suppresses VEGF signaling to prevent pathological neovascular growth. <i>Science Signaling</i> , 2015 , 8, ra94	8.8	29
64	Insights into the genetic structure of congenital heart disease from human and murine studies on monogenic disorders. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 4,	5.4	27
63	AAV Gene Therapy Prevents and Reverses Heart Failure in a Murine Knockout Model of Barth Syndrome. <i>Circulation Research</i> , 2020 , 126, 1024-1039	15.7	26
62	Peritruncal coronary endothelial cells contribute to proximal coronary artery stems and their aortic orifices in the mouse heart. <i>PLoS ONE</i> , 2013 , 8, e80857	3.7	26
61	Genome-wide location analysis by pull down of in vivo biotinylated transcription factors. <i>Current Protocols in Molecular Biology</i> , 2010 , Chapter 21, Unit 21.20	2.9	26
60	Diagnosis and management of agenesis of the right lung and left pulmonary artery sling. <i>American Journal of Cardiology</i> , 1996 , 78, 723-7	3	26
59	CIP, a cardiac Isl1-interacting protein, represses cardiomyocyte hypertrophy. <i>Circulation Research</i> , 2012 , 110, 818-30	15.7	24
58	Structural characterization of the mouse Girk genes. <i>Gene</i> , 2002 , 284, 241-50	3.8	23
57	Inducible cardiomyocyte-specific gene disruption directed by the rat Tnnt2 promoter in the mouse. <i>Genesis</i> , 2010 , 48, 63-72	1.9	22
56	Cardiomyocyte-enriched protein CIP protects against pathophysiological stresses and regulates cardiac homeostasis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4122-34	15.9	22
55	Contribution of Fetal, but Not Adult, Pulmonary Mesothelium to Mesenchymal Lineages in Lung Homeostasis and Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 222-30	5.7	21
54	Depletion of polycomb repressive complex 2 core component EED impairs fetal hematopoiesis. <i>Cell Death and Disease</i> , 2017 , 8, e2744	9.8	21
53	Isolation and characterization of embryonic and adult epicardium and epicardium-derived cells. <i>Methods in Molecular Biology</i> , 2012 , 843, 155-68	1.4	21

52	Therapeutic neovascularization for peripheral arterial diseases: advances and perspectives. <i>Histology and Histopathology</i> , 2007 , 22, 677-86	1.4	21
51	ICln is essential for cellular and early embryonic viability. <i>Journal of Biological Chemistry</i> , 2000 , 275, 12363-6	3.4	20
50	Robust differentiation of human pluripotent stem cells into endothelial cells via temporal modulation of ETV2 with modified mRNA. <i>Science Advances</i> , 2020 , 6, eaba7606	14.3	20
49	Regional differences in WT-1 and Tcf21 expression during ventricular development: implications for myocardial compaction. <i>PLoS ONE</i> , 2015 , 10, e0136025	3.7	18
48	Reprogramming fibroblasts into cardiomyocytes. <i>New England Journal of Medicine</i> , 2011 , 364, 177-8	59.2	17
47	Modeling Human TBX5 Haploinsufficiency Predicts Regulatory Networks for Congenital Heart Disease. <i>Developmental Cell</i> , 2021 , 56, 292-309.e9	10.2	17
46	CASAAV: A CRISPR-Based Platform for Rapid Dissection of Gene Function In Vivo. <i>Current Protocols in Molecular Biology</i> , 2017 , 120, 31.11.1-31.11.14	2.9	16
45	Transcription factor GATA4 is activated but not required for insulin-like growth factor 1 (IGF1)-induced cardiac hypertrophy. <i>Journal of Biological Chemistry</i> , 2012 , 287, 9827-9834	5.4	16
44	Sphingosine 1-phosphate-regulated transcriptomes in heterogenous arterial and lymphatic endothelium of the aorta. <i>ELife</i> , 2020 , 9,	8.9	16
43	Enhancer dependence of cell-type-specific gene expression increases with developmental age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21450-21458	11.5	16
42	aYAP modRNA reduces cardiac inflammation and hypertrophy in a murine ischemia-reperfusion model. <i>Life Science Alliance</i> , 2020 , 3,	5.8	15
41	Regulation of myonuclear positioning and muscle function by the skeletal muscle-specific CIP protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19254-19261	11.5	14
40	Increased Reactive Oxygen Species-Mediated Ca/Calmodulin-Dependent Protein Kinase II Activation Contributes to Calcium Handling Abnormalities and Impaired Contraction in Barth Syndrome. <i>Circulation</i> , 2021 , 143, 1894-1911	16.7	14
39	Developing insights into cardiac regeneration. <i>Development (Cambridge)</i> , 2013 , 140, 3933-7	6.6	13
38	GATA factors promote ER integrity and cell survival and contribute to type 1 diabetes risk. <i>Molecular Endocrinology</i> , 2014 , 28, 28-39		13
37	Sarcomeres regulate murine cardiomyocyte maturation through MRTF-SRF signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
36	GATA4 represses an ileal program of gene expression in the proximal small intestine by inhibiting the acetylation of histone H3, lysine 27. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014 , 1839, 1273-82	6	11
35	Gene therapy for inherited arrhythmias. <i>Cardiovascular Research</i> , 2020 , 116, 1635-1650	9.9	10

34	Modeling Inherited Arrhythmia Disorders Using Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Circulation Journal</i> , 2016 , 81, 12-21	2.9	10
33	Genetic Mosaics for Greater Precision in Cardiovascular Research. <i>Circulation Research</i> , 2018 , 123, 27-29	15.7	10
32	Cardiac expression of ms1/STARS, a novel gene involved in cardiac development and disease, is regulated by GATA4. <i>Molecular and Cellular Biology</i> , 2012 , 32, 1830-43	4.8	10
31	Ultrasound-guided transthoracic intramyocardial injection in mice. <i>Journal of Visualized Experiments</i> , 2014 , e51566	1.6	9
30	The architecture and function of cardiac dyads. <i>Biophysical Reviews</i> , 2020 , 12, 1007-1017	3.7	9
29	TEAD1 protects against necroptosis in postmitotic cardiomyocytes through regulation of nuclear DNA-encoded mitochondrial genes. <i>Cell Death and Differentiation</i> , 2021 , 28, 2045-2059	12.7	9
28	MICAL1 constrains cardiac stress responses and protects against disease by oxidizing CaMKII. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4663-4678	15.9	8
27	LARP7 Protects Against Heart Failure by Enhancing Mitochondrial Biogenesis. <i>Circulation</i> , 2021 , 143, 2007-2022	16.7	8
26	Genetic and Epigenetic Control of Heart Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020 , 12,	10.2	7
25	L ARP7 Is a BRCA1 Ubiquitinase Substrate and Regulates Genome Stability and Tumorigenesis. <i>Cell Reports</i> , 2020 , 32, 107974	10.6	6
24	A dynamic and integrated epigenetic program at distal regions orchestrates transcriptional responses to VEGFA. <i>Genome Research</i> , 2019 , 29, 193-207	9.7	5
23	The mysterious origins of coronary vessels. <i>Cell Research</i> , 2013 , 23, 1063-4	24.7	5
22	Transcription factors and heart failure: does the stressed heart need a hand?. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 1765-7	5.8	5
21	Preparation of rAAV9 to Overexpress or Knockdown Genes in Mouse Hearts. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	4
20	Notching up vascular regeneration. <i>Cell Research</i> , 2014 , 24, 777-8	24.7	4
19	Identification of a cardiac disease modifier gene using forward genetics in the mouse. <i>PLoS Genetics</i> , 2009 , 5, e1000643	6	4
18	Mature cardiomyocytes recall their progenitor experience via polycomb repressive complex 2. <i>Circulation Research</i> , 2012 , 111, 162-4	15.7	4
17	Massively parallel in vivo CRISPR screening identifies RNF20/40 as epigenetic regulators of cardiomyocyte maturation. <i>Nature Communications</i> , 2021 , 12, 4442	17.4	4

16	Two faces of bivalent domain regulate VEGFA responsiveness and angiogenesis. <i>Cell Death and Disease</i> , 2020 , 11, 75	9.8	3
15	Intercalated disc protein Xinn β s required for Hippo-YAP signaling in the heart. <i>Nature Communications</i> , 2020 , 11, 4666	17.4	3
14	YAP/TEAD1 Complex Is a Default Repressor of Cardiac Toll-Like Receptor Genes. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
13	AAV Gene Transfer to the Heart. <i>Methods in Molecular Biology</i> , 2021 , 2158, 269-280	1.4	3
12	Mammalian Myocardial Regeneration 2012 , 555-569		2
11	Open-loop predictive control of plasma etching of tungsten using an in-situ film thickness sensor 1992 ,		2
10	In vivo CRISPR screening identifies RNF20/40 as epigenetic regulators of cardiomyocyte maturation		2
9	Selectively expressing SARS-CoV-2 Spike protein S1 subunit in cardiomyocytes induces cardiac hypertrophy in mice		2
8	Cardiac CIP protein regulates dystrophic cardiomyopathy. <i>Molecular Therapy</i> , 2021 ,	11.7	2
7	Robust differentiation of human pluripotent stem cells into endothelial cells via temporal modulation of ETV2 with modified mRNA		1
6	Sarcomeres regulate cardiomyocyte maturation through MRTF-SRF signaling		1
5	Efficient In Vivo Homology-Directed Repair Within Cardiomyocytes.. <i>Circulation</i> , 2022 , 145, 787-789	16.7	1
4	Calcific aortic valve disease: turning therapeutic discovery up a notch. <i>Nature Reviews Cardiology</i> , 2021 , 18, 309-310	14.8	0
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1	Cardiac ISL1-Interacting Protein, a Cardioprotective Factor, Inhibits the Transition From Cardiac Hypertrophy to Heart Failure.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 857049	5.4	