Chen-Leng Cai

List of Publications by Year
in descending order

37 papers	5,131 citations	331670 21 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	5427 citing authors

#	Article	IF	Citations
1	Isl1 Identifies a Cardiac Progenitor Population that Proliferates Prior to Differentiation and Contributes a Majority of Cells to the Heart. Developmental Cell, 2003, 5, 877-889.	7.0	1,433
2	Postnatal isl1+ cardioblasts enter fully differentiated cardiomyocyte lineages. Nature, 2005, 433, 647-653.	27.8	1,229
3	A myocardial lineage derives from Tbx18 epicardial cells. Nature, 2008, 454, 104-108.	27.8	712
4	Resident c-kit+ cells in the heart are not cardiac stem cells. Nature Communications, 2015, 6, 8701.	12.8	268
5	Isl1Cre reveals a common Bmp pathway in heart and limb development. Development (Cambridge), 2006, 133, 1575-1585.	2.5	234
6	T-box genes coordinate regional rates of proliferation and regional specification during cardiogenesis. Development (Cambridge), 2005, 132, 2475-2487.	2.5	221
7	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. Circulation, 2020, 141, 1249-1265.	1.6	147
8	Yap1 Is Required for Endothelial to Mesenchymal Transition of the Atrioventricular Cushion. Journal of Biological Chemistry, 2014, 289, 18681-18692.	3.4	136
9	Tbx20 acts upstream of Wnt signaling to regulate endocardial cushion formation and valve remodeling during mouse cardiogenesis. Development (Cambridge), 2013, 140, 3176-3187.	2.5	77
10	The Elusive Progenitor Cell in Cardiac Regeneration. Circulation Research, 2017, 120, 400-406.	4.5	73
11	Mesodermal Nkx2.5 is necessary and sufficient for early second heart field development. Developmental Biology, 2014, 390, 68-79.	2.0	62
12	Tbx18 Targets Dermal Condensates for Labeling, Isolation, and Gene Ablation during Embryonic Hair Follicle Formation. Journal of Investigative Dermatology, 2013, 133, 344-353.	0.7	49
13	QKI is a critical pre-mRNA alternative splicing regulator of cardiac myofibrillogenesis and contractile function. Nature Communications, 2021, 12, 89.	12.8	47
14	Cardiac Sca-1⁺Cells Are Not Intrinsic Stem Cells for Myocardial Development, Renewal, and Repair. Circulation, 2018, 138, 2919-2930.	1.6	37
15	Meteorin-like promotes heart repair through endothelial KIT receptor tyrosine kinase. Science, 2022, 376, 1343-1347.	12.6	34
16	Baf250a orchestrates an epigenetic pathway to repress the Nkx2.5-directed contractile cardiomyocyte program in the sinoatrial node. Cell Research, 2014, 24, 1201-1213.	12.0	33
17	Single cell multi-omic analysis identifies a Tbx1-dependent multilineage primed population in murine cardiopharyngeal mesoderm. Nature Communications, 2021, 12, 6645.	12.8	31
18	Smad4 deficiency impairs chondrocyte hypertrophy via the Runx2 transcription factor in mouse skeletal development. Journal of Biological Chemistry, 2018, 293, 9162-9175.	3.4	30

#	Article	IF	Citations
19	Generation of the organotypic kidney structure by integrating pluripotent stem cell-derived renal stroma. Nature Communications, 2022, 13, 611.	12.8	29
20	Reduced dosage of Î²-catenin provides significant rescue of cardiac outflow tract anomalies in a Tbx1 conditional null mouse model of 22q11.2 deletion syndrome. PLoS Genetics, 2017, 13, e1006687.	3.5	27
21	Nkx2-5 defines a subpopulation of pacemaker cells and is essential for the physiological function of the sinoatrial node in mice. Development (Cambridge), 2019, 146, .	2.5	23
22	Limited Regeneration Potential with Minimal Epicardial Progenitor Conversions in the Neonatal Mouse Heart after Injury. Cell Reports, 2019, 28, 190-201.e3.	6.4	23
23	Gene editing reverses arrhythmia susceptibility in humanized PLN-R14del mice: modelling a European cardiomyopathy with global impact. Cardiovascular Research, 2022, 118, 3140-3150.	3.8	23
24	Cai et al. reply. Nature, 2009, 458, E9-E10.	27.8	22
25	MiR-150 Attenuates Maladaptive Cardiac Remodeling Mediated by Long Noncoding RNA MIAT and Directly Represses Profibrotic Hoxa4. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE121008686.	3.9	17
26	A unique stylopod patterning mechanism by Shox2 controlled osteogenesis. Development (Cambridge), 2016, 143, 2548-60.	2.5	15
27	AGata4nuclear GFP transcriptional reporter to study endoderm and cardiac development in the mouse. Biology Open, 2018, 7, .	1.2	15
28	Smad4 Regulates Ureteral Smooth Muscle Cell Differentiation during Mouse Embryogenesis. PLoS ONE, 2014, 9, e104503.	2.5	15
29	A series of robust genetic indicators for definitive identification of cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 97, 278-285.	1.9	12
30	Myocardial-specific R-spondin3 drives proliferation of the coronary stems primarily through the Leucine Rich Repeat G Protein coupled receptor LGR4. Developmental Biology, 2018, 441, 42-51.	2.0	11
31	Epicardial HDAC3 Promotes Myocardial Growth Through a Novel MicroRNA Pathway. Circulation Research, 2022, 131, 151-164.	4.5	11
32	Arrhythmia Mechanism and Dynamics in a Humanized Mouse Model of Inherited Cardiomyopathy Caused by Phospholamban R14del Mutation. Circulation, 2021, 144, 441-454.	1.6	10
33	Generation of a tamoxifen inducible Tnnt2^{MerCreMer} knockâ€in mouse model for cardiac studies. Genesis, 2015, 53, 377-386.	1.6	9
34	A Murine Myh6MerCreMer Knock-In Allele Specifically Mediates Temporal Genetic Deletion in Cardiomyocytes after Tamoxifen Induction. PLoS ONE, 2015, 10, e0133472.	2.5	7
35	Novel Myh11 Dual Reporter Mouse Model Provides Definitive Labeling and Identification of Smooth Muscle Cellsâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 815-821.	2.4	6
36	Activation of iNKT Cells at the Maternalâ€"Fetal Interface Predisposes Offspring to Cardiac Injury. Circulation, 2022, 145, 1032-1035.	1.6	3

#	Article	IF	Citations
37	Generation of Pecam1 endothelial specific dual reporter mouse model. Genesis, 2020, 58, e23384.	1.6	0