James F Martin

List of Publications by Year
in descending order

121 papers	9,067 citations	61857 43 h-index	43802 91 g-index
128 all docs	128 docs citations	128 times ranked	11213 citing authors

#	Article	IF	Citations
1	Hippo Pathway Inhibits Wnt Signaling to Restrain Cardiomyocyte Proliferation and Heart Size. Science, 2011, 332, 458-461.	6.0	926
2	The extracellular matrix protein agrin promotes heart regeneration in mice. Nature, 2017, 547, 179-184.	13.7	498
3	Function of Rieger syndrome gene in leftâ€“right asymmetry and craniofacial development. Nature, 1999, 401, 276-278.	13.7	478
4	Cardiomyocyte Regeneration. Circulation, 2017, 136, 680-686.	1.6	417
5	Hippo signaling impedes adult heart regeneration. Development (Cambridge), 2013, 140, 4683-4690.	1.2	400
6	Hippo pathway deficiency reverses systolic heart failure after infarction. Nature, 2017, 550, 260-264.	13.7	333
7	<i>Pitx2</i> prevents susceptibility to atrial arrhythmias by inhibiting left-sided pacemaker specification. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9753-9758.	3.3	283
8	Somatic mosaicism and allele complexity induced by CRISPR/Cas9 RNA injections in mouse zygotes. Developmental Biology, 2014, 393, 3-9.	0.9	270
9	The Hippo pathway in the heart: pivotal roles in development, disease, and regeneration. Nature Reviews Cardiology, 2018, 15, 672-684.	6.1	252
10	Pitx2 promotes heart repair by activating the antioxidant response after cardiac injury. Nature, 2016, 534, 119-123.	13.7	244
11	Dystrophinâ€“glycoprotein complex sequesters Yap to inhibit cardiomyocyte proliferation. Nature, 2017, 547, 227-231.	13.7	232
12	Hippo Coactivator YAP1 Upregulates SOX9 and Endows Esophageal Cancer Cells with Stem-like Properties. Cancer Research, 2014, 74, 4170-4182.	0.4	219
13	Regulation of left-right asymmetry by thresholds of Pitx2c activity. Development (Cambridge), 2001, 128, 2039-2048.	1.2	180
14	Actin cytoskeletal remodeling with protrusion formation is essential for heart regeneration in Hippo-deficient mice. Science Signaling, 2015, 8, ra41.	1.6	178
15	Canonical Wnt signaling functions in second heart field to promote right ventricular growth. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9319-9324.	3.3	176
16	YAP Partially Reprograms Chromatin Accessibility to Directly Induce Adult Cardiogenesis InÂVivo. Developmental Cell, 2019, 48, 765-779.e7.	3.1	171
17	Bmp Signaling Regulates Myocardial Differentiation from Cardiac Progenitors Through a MicroRNA-Mediated Mechanism. Developmental Cell, 2010, 19, 903-912.	3.1	162
18	<i>Pitx2c</i>patterns anterior myocardium and aortic arch vessels and is required for local cell movement into atrioventricular cushions. Development (Cambridge), 2002, 129, 5081-5091.	1.2	162

#	Article	IF	Citations
19	Hippo Signaling Plays an Essential Role in Cell State Transitions during Cardiac Fibroblast Development. Developmental Cell, 2018, 45, 153-169.e6.	3.1	144
20	ERBB2 drives YAP activation and EMT-like processes during cardiac regeneration. Nature Cell Biology, 2020, 22, 1346-1356.	4.6	130
21	<i>Pitx2</i> modulates a <i>Tbx5</i> -dependent gene regulatory network to maintain atrial rhythm. Science Translational Medicine, 2016, 8, 354ra115.	5.8	123
22	Pitx2 regulates cardiac leftâ€"right asymmetry by patterning second cardiac lineage-derived myocardium. Developmental Biology, 2006, 296, 437-449.	0.9	110
23	<i>Pitx2</i> -microRNA pathway that delimits sinoatrial node development and inhibits predisposition to atrial fibrillation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9181-9186.	3.3	109
24	Single-Cell RNA-Seq of Mouse Olfactory Bulb Reveals Cellular Heterogeneity and Activity-Dependent Molecular Census of Adult-Born Neurons. Cell Reports, 2018, 25, 2689-2703.e3.	2.9	109
25	A common <i>Shox2</i>-<i>Nkx2-5</i> antagonistic mechanism primes the pacemaking cell fate in the pulmonary vein myocardium and sinoatrial node. Development (Cambridge), 2015, 142, 2521-32.	1.2	105
26	<i>Pitx2</i> , an Atrial Fibrillation Predisposition Gene, Directly Regulates Ion Transport and Intercalated Disc Genes. Circulation: Cardiovascular Genetics, 2014, 7, 23-32.	5.1	103
27	Loss of MicroRNA-106b-25 Cluster Promotes Atrial Fibrillation by Enhancing Ryanodine Receptor Type-2 Expression and Calcium Release. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1214-1222.	2.1	101
28	Hippo pathway deletion in adult resting cardiac fibroblasts initiates a cell state transition with spontaneous and self-sustaining fibrosis. Genes and Development, 2019, 33, 1491-1505.	2.7	101
29	Noncontact quantitative biomechanical characterization of cardiac muscle using shear wave imaging optical coherence tomography. Biomedical Optics Express, 2014, 5, 1980.	1.5	94
30	The Hippo Pathway Blocks Mammalian Retinal MÃ¼ller Glial Cell Reprogramming. Cell Reports, 2019, 27, 1637-1649.e6.	2.9	92
31	Pitx2c patterns anterior myocardium and aortic arch vessels and is required for local cell movement into atrioventricular cushions. Development (Cambridge), 2002, 129, 5081-91.	1.2	81
32	Large tumor suppressor homologs 1 and 2 regulate mouse liver progenitor cell proliferation and maturation through antagonism of the coactivators YAP and TAZ. Hepatology, 2016, 64, 1757-1772.	3.6	79
33	Somatic genome editing with CRISPR/Cas9 generates and corrects a metabolic disease. Scientific Reports, 2017, 7, 44624.	1.6	76
34	Conserved <i>NPPB</i> + Border Zone Switches From MEF2- to AP-1â€"Driven Gene Program. Circulation, 2019, 140, 864-879.	1.6	70
35	MicroRNA-17-92, a Direct Ap-2Î± Transcriptional Target, Modulates T-Box Factor Activity in Orofacial Clefting. PLoS Genetics, 2013, 9, e1003785.	1.5	68
36	Gene therapy knockdown of Hippo signaling induces cardiomyocyte renewal in pigs after myocardial infarction. Science Translational Medicine, 2021, 13, .	5.8	68

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37	Endocrine lineage biases arise in temporally distinct endocrine progenitors during pancreatic morphogenesis. Nature Communications, 2018, 9, 3356.	5.8	67
38	Multi-Investigator Letter on Reproducibility of Neonatal Heart Regeneration following Apical Resection. Stem Cell Reports, 2014, 3, 1.	2.3	65
39	Identification of atrial fibrillation associated genes and functional non-coding variants. Nature Communications, 2019, 10, 4755.	5.8	64
40	Yap and Taz play a crucial role in neural crest-derived craniofacial development. Development (Cambridge), 2015, 143, 504-15.	1.2	62
41	Stimulating Cardiogenesis as a Treatment for Heart Failure. Circulation Research, 2019, 124, 1647-1657.	2.0	59
42	BMP signaling in congenital heart disease: New developments and future directions. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 441-448.	1.6	58
43	Bmp signaling represses <i>Vegfa</i> to promote outflow tract cushion development. Development (Cambridge), 2013, 140, 3395-3402.	1.2	48
44	Epigenetic and Transcriptional Networks Underlying Atrial Fibrillation. Circulation Research, 2020, 127, 34-50.	2.0	48
45	Identification of microRNAâ€“mRNA dysregulations in paroxysmal atrial fibrillation. International Journal of Cardiology, 2015, 184, 190-197.	0.8	46
46	Long-range Pitx2c enhancerâ€“promoter interactions prevent predisposition to atrial fibrillation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22692-22698.	3.3	46
47	Transcriptomic and epigenetic regulation of hair cell regeneration in the mouse utricle and its potentiation by Atoh1. ELife, 2019, 8, .	2.8	46
48	Hippo/Yap Signaling in Cardiac Development and Regeneration. Current Treatment Options in Cardiovascular Medicine, 2016, 18, 38.	0.4	45
49	Rbfox2 function in RNA metabolism is impaired in hypoplastic left heart syndrome patient hearts. Scientific Reports, 2016, 6, 30896.	1.6	45
50	A cellular atlas of<i>Pitx2-</i>dependent cardiac development. Development (Cambridge), 2019, 146, .	1.2	44
51	Tet inactivation disrupts YY1 binding and long-range chromatin interactions during embryonic heart development. Nature Communications, 2019, 10, 4297.	5.8	44
52	Genetic architecture of laterality defects revealed by whole exome sequencing. European Journal of Human Genetics, 2019, 27, 563-573.	1.4	44
53	Tead1 is required for maintaining adult cardiomyocyte function, and its loss results in lethal dilated cardiomyopathy. JCI Insight, 2017, 2, .	2.3	42
54	Nuclear Factor 1 and T-Cell Factor/LEF Recognition Elements Regulate Pitx2 Transcription in Pituitary Development. Molecular and Cellular Biology, 2007, 27, 5765-5775.	1.1	37

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55	Whole exome sequencing in 342 congenital cardiac left sided lesion cases reveals extensive genetic heterogeneity and complex inheritance patterns. Genome Medicine, 2017, 9, 95.	3.6	37
56	Integrated multi-omic characterization of congenital heart disease. Nature, 2022, 608, 181-191.	13.7	37
57	Organ of Corti size is governed by Yap/Tead-mediated progenitor self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13552-13561.	3.3	36
58	Cardiomyocyte Proliferation for Therapeutic Regeneration. Current Cardiology Reports, 2018, 20, 63.	1.3	35
59	Chromatin Architecture of the Pitx2 Locus Requires CTCF- and Pitx2-Dependent Asymmetry that Mirrors Embryonic Gut Laterality. Cell Reports, 2015, 13, 337-349.	2.9	30
60	Yap Promotes Noncanonical Wnt Signals From Cardiomyocytes for Heart Regeneration. Circulation Research, 2021, 129, 782-797.	2.0	30
61	The Future of Onco-Cardiology. Circulation Research, 2016, 119, 896-899.	2.0	29
62	Biomechanical assessment of myocardial infarction using optical coherence elastography. Biomedical Optics Express, 2018, 9, 728.	1.5	29
63	Macro advances in microRNAs and myocardial regeneration. Current Opinion in Cardiology, 2014, 29, 207-213.	0.8	28
64	RONIN Is an Essential Transcriptional Regulator of Genes Required for Mitochondrial Function in the Developing Retina. Cell Reports, 2016, 14, 1684-1697.	2.9	28
65	Pitx2 maintains mitochondrial function during regeneration to prevent myocardial fat deposition. Development (Cambridge), 2018, 145, .	1.2	28
66	FoxO6 regulates Hippo signaling and growth of the craniofacial complex. PLoS Genetics, 2018, 14, e1007675.	1.5	25
67	The regulation and function of the Hippo pathway in heart regeneration. Wiley Interdisciplinary Reviews: Developmental Biology, 2019, 8, e335.	5.9	25
68	Knockout of SRC-1 and SRC-3 in Mice Decreases Cardiomyocyte Proliferation and Causes a Noncompaction Cardiomyopathy Phenotype. International Journal of Biological Sciences, 2015, 11, 1056-1072.	2.6	24
69	Heart repair via cardiomyocyte-secreted vesicles. Nature Biomedical Engineering, 2018, 2, 271-272.	11.6	23
70	Leading progress in heart regeneration and repair. Current Opinion in Cell Biology, 2019, 61, 79-85.	2.6	22
71	Awakening the regenerative potential of the mammalian retina. Development (Cambridge), 2019, 146, .	1.2	22
72	Notch signaling regulates Hey2 expression in a spatiotemporal dependent manner during cardiac morphogenesis and trabecular specification. Scientific Reports, 2018, 8, 2678.	1.6	20

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73	A steroid receptor coactivator stimulator (MCB-613) attenuates adverse remodeling after myocardial infarction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31353-31364.	3.3	20
74	RBFOX2 is required for establishing RNA regulatory networks essential for heart development. Nucleic Acids Research, 2022, 50, 2270-2286.	6.5	20
75	Hippo Pathway Effector Tead1 Induces Cardiac Fibroblast to Cardiomyocyte Reprogramming. Journal of the American Heart Association, 2021, 10, e022659.	1.6	20
76	Depletion of Endothelial Prolyl Hydroxylase Domain Protein 2 and 3 Promotes Cardiomyocyte Proliferation and Prevents Ventricular Failure Induced by Myocardial Infarction. Circulation, 2019, 140, 440-442.	1.6	17
77	Tissue specific requirements for WNT11 in developing outflow tract and dorsal mesenchymal protrusion. Developmental Biology, 2017, 429, 249-259.	0.9	16
78	PRDM16s transforms megakaryocyte-erythroid progenitors into myeloid leukemiaâ€“initiating cells. Blood, 2019, 134, 614-625.	0.6	16
79	Mutations in Hcfc1 and Ronin result in an inborn error of cobalamin metabolism and ribosomopathy. Nature Communications, 2022, 13, 134.	5.8	16
80	Sub-cellular localization specific SUMOylation in the heart. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2041-2055.	1.8	15
81	Cell-type modeling in spatial transcriptomics data elucidates spatially variable colocalization and communication between cell-types in mouse brain. Cell Systems, 2022, 13, 58-70.e5.	2.9	14
82	Targeting the Hippo pathway in heart repair. Cardiovascular Research, 2022, 118, 2402-2414.	1.8	13
83	Distinguishing Cardiomyocyte Division From Binucleation. Circulation Research, 2018, 123, 1012-1014.	2.0	12
84	Determinants of Cardiac Growth and Size. Cold Spring Harbor Perspectives in Biology, 2020, 12, a037150.	2.3	12
85	Predicting unrecognized enhancer-mediated genome topology by an ensemble machine learning model. Genome Research, 2020, 30, 1835-1845.	2.4	12
86	A piggyBac-based reporter system for scalable in vitro and in vivo analysis of 3â€² untranslated region-mediated gene regulation. Nucleic Acids Research, 2014, 42, e86-e86.	6.5	11
87	The histone H3.3 chaperone HIRA restrains erythroid-biased differentiation of adult hematopoietic stem cells. Stem Cell Reports, 2021, 16, 2014-2028.	2.3	9
88	Increased nuchal translucency origins from abnormal lymphatic development and is independent of the presence of a cardiac defect. Prenatal Diagnosis, 2015, 35, 1278-1286.	1.1	8
89	Direct Stimulation of Cardiogenesis. Circulation Research, 2017, 121, 13-15.	2.0	8
90	Suppressing Hippo signaling in the stem cell niche promotes skeletal muscle regeneration. Stem Cells, 2021, 39, 737-749.	1.4	8

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91	Genetic specification of leftâ€"right asymmetry in the diaphragm muscles and their motor innervation. ELife, 2017, 6, .	2.8	6
92	Yin-Yang 1, a New Player in Early Heart Development. Circulation Research, 2013, 112, 876-877.	2.0	5
93	Small RNA: From development to regeneration. Science Translational Medicine, 2015, 7, 279fs12.	5.8	5
94	A Role for Ploidy in Heart Regeneration. Developmental Cell, 2018, 44, 403-404.	3.1	5
95	Decoding the PITX2-controlled genetic network in atrial fibrillation. JCI Insight, 2022, 7, .	2.3	5
96	The cell-autonomous and nonâ€"cell-autonomous roles of the Hippo pathway in heart regeneration. Journal of Molecular and Cellular Cardiology, 2022, 168, 98-106.	0.9	5
97	Heart muscle regeneration: the wonder of a Cardio-Cocktail. Cell Research, 2018, 28, 503-504.	5.7	4
98	Epigenetic Assays in Purified Cardiomyocyte Nuclei. Methods in Molecular Biology, 2021, 2158, 307-321.	0.4	4
99	Hippo signaling in cardiac fibroblasts during development, tissue repair, and fibrosis. Current Topics in Developmental Biology, 2022, , 91-121.	1.0	4
100	Editorial: Cardio-Oncology: From Bench to Bedside. Frontiers in Cardiovascular Medicine, 2019, 6, 37.	1.1	2
101	A novel transgenic Cre allele to label mouse cardiac conduction system. Developmental Biology, 2021, 478, 163-172.	0.9	2
102	Embryonic ECM Protein SLIT2 and NPNT Promote Postnatal Cardiomyocyte Cytokinesis. Circulation Research, 2020, 127, 908-910.	2.0	1
103	Intestinal Deletion of 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Promotes Expansion of the Resident Stem Cell Compartment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 381-394.	1.1	1
104	RNA splicing to cytoskeleton: A new path to cardiomyocyte ploidy and division?. Developmental Cell, 2022, 57, 945-946.	3.1	1
105	Yap and Taz promote osteogenesis in neural crest cells by preventing chondrogenesis. FASEB Journal, 2022, 36, .	0.2	1
106	A Steroid Receptor Coactivator Stimulator MCB-613 Attenuates Adverse Remodeling After Myocardial Infarction. Journal of the Endocrine Society, 2021, 5, A803-A803.	0.1	0
107	Yap and Taz function as the osteochondrogenic determinant in neural crest cells. FASEB Journal, 2021, 35, .	0.2	0
108	Abstract 170: Hippo Signaling Regulates Epicardial Derived Cell Fate through Controlling Mechanical Property. Circulation Research, 2014, 115, .	2.0	0

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109	Abstract 260: A miRNA-Hippo Pathway Promotes Cardiac Conduction System Regeneration. Circulation Research, 2014, 115, .	2.0	0
110	Abstract 258: Pitx2 Promotes Murine Myocardial Regeneration after Myocardial Injury. Circulation Research, 2014, 115, .	2.0	0
111	Abstract 15973: miRNA-Hippo Pathway Plays a Critical Role in the Cardiac Conduction System. Circulation, 2014, 130, .	1.6	0
112	Abstract 15657: Regulation of Cardiac Regeneration by Hippo Pathway and Dystrophin Glycoprotein Complex. Circulation, 2014, 130, .	1.6	0
113	Identification of MicroRNAâ€mRNA Dysregulations in Paroxysmal Atrial Fibrillation. FASEB Journal, 2015, 29, 46.10.	0.2	0
114	Abstract 13: Hippo Signaling Deletion During Heart Failure Reverses Functional Decline. Circulation Research, 2015, 117, .	2.0	0
115	Abstract 396: Regulation of Cardiomyocyte Proliferation by the Hippo Pathway and Dystrophin Complex. Circulation Research, 2016, 119, .	2.0	0
116	Abstract 78: Hippo Pathway and Dystrophin Glycoprotein Complex Regulate Cardiomyocyte Proliferation. Circulation Research, 2017, 121, .	2.0	0
117	Ronin (Thap11) Deficiency Results in a Disease Impacting both Vitamin B 12 Metabolism and Ribosome Biogenesis. FASEB Journal, 2019, 33, 449.2.	0.2	0
118	Abstract 293: Functional Recovery After Gene Therapy and Hippo Pathway Knock Down After Myocardial Infarction in a Pig Model. Circulation Research, 2020, 127, .	2.0	0
119	Enhancing Pace: Identifying and Validating the Cis-Regulatory Landscape of the Sinoatrial Node. Circulation Research, 2020, 127, 1519-1521.	2.0	0
120	Abstract MP245: Tet Proteins Regulate Second Heart Field Multipotent Progenitors Differentiating To Myocytes. Circulation Research, 2021, 129, .	2.0	0
121	Abstract 123: Intestinal Deletion Of 3-hydroxy-3-methylglutaryl-coenzyme A Reductase Promotes Expansion Of The Resident Stem Cell Compartment. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, .	1.1	0