Katherine E Yutzey

List of Publications by Year
in descending order

135 papers	10,173 citations	31949 53 h-index	36008 97 g-index
138 all docs	138 docs citations	138 times ranked	11964 citing authors

#	Article	IF	Citations
1	Cardiac Fibrosis. Circulation Research, 2016, 118, 1021-1040.	2.0	1,136
2	Heart Valve Development. Circulation Research, 2009, 105, 408-421.	2.0	406
3	Heart Valve Structure and Function in Development and Disease. Annual Review of Physiology, 2011, 73, 29-46.	5.6	384
4	Extracellular Matrix Remodeling and Organization in Developing and Diseased Aortic Valves. Circulation Research, 2006, 98, 1431-1438.	2.0	371
5	FoxO Transcription Factors Promote Autophagy in Cardiomyocytes. Journal of Biological Chemistry, 2009, 284, 28319-28331.	1.6	365
6	FoxO Transcription Factors Promote Cardiomyocyte Survival upon Induction of Oxidative Stress. Journal of Biological Chemistry, 2011, 286, 7468-7478.	1.6	283
7	Calcific Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2387-2393.	1.1	261
8	Calcineurin signaling and NFAT activation in cardiovascular and skeletal muscle development. Developmental Biology, 2004, 266, 1-16.	0.9	249
9	Development of heart valve leaflets and supporting apparatus in chicken and mouse embryos. Developmental Dynamics, 2004, 230, 239-250.	0.8	229
10	Hearts and bones: Shared regulatory mechanisms in heart valve, cartilage, tendon, and bone development. Developmental Biology, 2006, 294, 292-302.	0.9	206
11	Ventricular Expression of tbx5 Inhibits Normal Heart Chamber Development. Developmental Biology, 2000, 223, 169-180.	0.9	189
12	Regulation of Cardiomyocyte Proliferation and Myocardial Growth During Development by FOXO Transcription Factors. Circulation Research, 2008, 102, 686-694.	2.0	185
13	Notch1 regulates the fate of cardiac progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15529-15534.	3.3	177
14	Sox9 is required for precursor cell expansion and extracellular matrix organization during mouse heart valve development. Developmental Biology, 2007, 305, 120-132.	0.9	162
15	Genetic Loss of Calcineurin Blocks Mechanical Overload-induced Skeletal Muscle Fiber Type Switching but Not Hypertrophy. Journal of Biological Chemistry, 2004, 279, 26192-26200.	1.6	160
16	The Evil proto-oncogene is required at midgestation for neural, heart, and paraxial mesenchyme development. Mechanisms of Development, 1997, 65, 55-70.	1.7	155
17	T-box genes and heart development: Putting the ?T? in heart. Developmental Dynamics, 2005, 232, 11-20.	0.8	148
18	Loss of Î²-catenin in resident cardiac fibroblasts attenuates fibrosis induced by pressure overload in mice. Nature Communications, 2017, 8, 712.	5.8	143

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19	TRANSCRIPTION FACTORS AND CONGENITAL HEART DEFECTS. Annual Review of Physiology, 2006, 68, 97-121.	5.6	140
20	Overexpression of Tbx20 in Adult Cardiomyocytes Promotes Proliferation and Improves Cardiac Function After Myocardial Infarction. Circulation, 2016, 133, 1081-1092.	1.6	133
21	NFATc3 and NFATc4 Are Required for Cardiac Development and Mitochondrial Function. Circulation Research, 2003, 92, 1305-1313.	2.0	129
22	Wnt signaling in heart valve development and osteogenic gene induction. Developmental Biology, 2010, 338, 127-135.	0.9	125
23	Notch pathway regulation of chondrocyte differentiation and proliferation during appendicular and axial skeleton development. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14420-14425.	3.3	120
24	Molecular Cloning and Expression of Two Novel Avian Cytochrome P450 1A Enzymes Induced by 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Journal of Biological Chemistry, 1996, 271, 33054-33059.	1.6	118
25	Pod1/Tcf21 is regulated by retinoic acid signaling and inhibits differentiation of epicardium-derived cells into smooth muscle in the developing heart. Developmental Biology, 2012, 368, 345-357.	0.9	117
26	Tbx20 regulation of endocardial cushion cell proliferation and extracellular matrix gene expression. Developmental Biology, 2007, 302, 376-388.	0.9	114
27	Differential Expression and Function of Tbx5 and Tbx20 in Cardiac Development. Journal of Biological Chemistry, 2004, 279, 19026-19034.	1.6	112
28	Differential expression of embryonic epicardial progenitor markers and localization of cardiac fibrosis in adult ischemic injury and hypertensive heart disease. Journal of Molecular and Cellular Cardiology, 2013, 65, 108-119.	0.9	105
29	Cardiac fibroblasts: from development to heart failure. Journal of Molecular Medicine, 2015, 93, 823-830.	1.7	102
30	Differential expression of cartilage and bone-related proteins in pediatric and adult diseased aortic valves. Journal of Molecular and Cellular Cardiology, 2011, 50, 561-569.	0.9	99
31	BMP and FGF regulatory pathways control cell lineage diversification of heart valve precursor cells. Developmental Biology, 2006, 292, 290-302.	0.9	91
32	Wherefore heart thou? Embryonic origins of cardiogenic mesoderm. Developmental Dynamics, 2002, 223, 307-320.	0.8	90
33	Mouse heart valve structure and function: echocardiographic and morphometric analyses from the fetus through the aged adult. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2480-H2488.	1.5	90
34	Twist1 function in endocardial cushion cell proliferation, migration, and differentiation during heart valve development. Developmental Biology, 2008, 317, 282-295.	0.9	89
35	Nkx-2.5 Gene Induction in Mice Is Mediated by a Smad Consensus Regulatory Region. Developmental Biology, 2002, 244, 243-256.	0.9	87
36	Diversification of Cardiomyogenic Cell Lineages During Early Heart Development. Circulation Research, 1995, 77, 216-219.	2.0	87

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37	Diversification of Cardiomyogenic Cell Lineages in Vitro. Developmental Biology, 1995, 170, 531-541.	0.9	85
38	FoxO1 and FoxM1 Transcription Factors Have Antagonistic Functions in Neonatal Cardiomyocyte Cell-Cycle Withdrawal and <i>IGF1</i> Gene Regulation. Circulation Research, 2013, 112, 267-277.	2.0	85
39	Maturation of heart valve cell populations during postnatal remodeling. Development (Cambridge), 2019, 146, .	1.2	78
40	Conserved Transcriptional Regulatory Mechanisms in Aortic Valve Development and Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 737-741.	1.1	77
41	Tbx20 promotes cardiomyocyte proliferation and persistence of fetal characteristics in adult mouse hearts. Journal of Molecular and Cellular Cardiology, 2013, 62, 203-213.	0.9	74
42	Twist1 promotes heart valve cell proliferation and extracellular matrix gene expression during development in vivo and is expressed in human diseased aortic valves. Developmental Biology, 2010, 347, 167-179.	0.9	72
43	Lack of Regulation in the Heart Forming Region of Avian Embryos. Developmental Biology, 1999, 207, 163-175.	0.9	71
44	DSCR1 gene expression is dependent on NFATc1 during cardiac valve formation and colocalizes with anomalous organ development in trisomy 16 mice. Developmental Biology, 2004, 266, 346-360.	0.9	71
45	Principles of Genetic Murine Models for Cardiac Disease. Circulation, 2007, 115, 792-799.	1.6	68
46	Bone Morphogenetic Protein Signaling Is Required for Aortic Valve Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1398-1405.	1.1	67
47	Shared gene expression profiles in developing heart valves and osteoblast progenitor cells. Physiological Genomics, 2008, 35, 75-85.	1.0	66
48	VEGF and RANKL Regulation of NFATc1 in Heart Valve Development. Circulation Research, 2009, 105, 565-574.	2.0	64
49	Differential activation of valvulogenic, chondrogenic, and osteogenic pathways in mouse models of myxomatous and calcific aortic valve disease. Journal of Molecular and Cellular Cardiology, 2012, 52, 689-700.	0.9	63
50	Developmental Mechanisms of Aortic Valve Malformation and Disease. Annual Review of Physiology, 2017, 79, 21-41.	5.6	62
51	Notch pathway regulation of neural crest cell development in vivo. Developmental Dynamics, 2012, 241, 376-389.	0.8	61
52	ColVa1 and ColXIa1 are required for myocardial morphogenesis and heart valve development. Developmental Dynamics, 2006, 235, 3295-3305.	0.8	58
53	Cardiomyocyte Proliferation. Circulation Research, 2017, 120, 627-629.	2.0	57
54	Macrophage Transitions in Heart Valve Development and Myxomatous Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 636-644.	1.1	57

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55	Disruption of MEF2 activity in cardiomyoblasts inhibits cardiomyogenesis. Journal of Cell Science, 2006, 119, 4315-4321.	1.2	55
56	Molecular and developmental mechanisms of congenital heart valve disease. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 526-534.	1.6	55
57	Noonan Syndrome Mutation Q79R in Shp2 Increases Proliferation of Valve Primordia Mesenchymal Cells via Extracellular Signalâ€"Regulated Kinase 1/2 Signaling. Circulation Research, 2005, 97, 813-820.	2.0	53
58	Tbx20 regulation of cardiac cell proliferation and lineage specialization during embryonic and fetal development in vivo. Developmental Biology, 2012, 363, 234-246.	0.9	52
59	Loss of Axin2 results in impaired heart valve maturation and subsequent myxomatous valve disease. Cardiovascular Research, 2017, 113, 40-51.	1.8	50
60	NFATc1 expression in the developing heart valves is responsive to the RANKL pathway and is required for endocardial expression of cathepsin K. Developmental Biology, 2006, 292, 407-417.	0.9	49
61	NFATC1 promotes epicardium-derived cell invasion into myocardium. Development (Cambridge), 2011, 138, 1747-1757.	1.2	49
62	Notch-Tnf signalling is required for development and homeostasis of arterial valves. European Heart Journal, 2017, 38, ehv520.	1.0	49
63	COX2 Inhibition Reduces Aortic Valve Calcification In Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 938-947.	1.1	49
64	FOXF1 transcription factor promotes lung morphogenesis by inducing cellular proliferation in fetal lung mesenchyme. Developmental Biology, 2018, 443, 50-63.	0.9	49
65	Transcriptional Regulation of Heart Valve Progenitor Cells. Pediatric Cardiology, 2010, 31, 414-421.	0.6	48
66	Cardiac Fibroblasts and the Extracellular Matrix in Regenerative and Nonregenerative Hearts. Journal of Cardiovascular Development and Disease, 2019, 6, 29.	0.8	48
67	Loss of Î²-Catenin Promotes Chondrogenic Differentiation of Aortic Valve Interstitial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2601-2608.	1.1	47
68	Mechanisms of heart valve development and disease. Development (Cambridge), 2020, 147, .	1.2	46
69	Different E-box regulatory sequences are functionally distinct when placed within the context of the troponin I enhancer. Nucleic Acids Research, 1992, 20, 5105-5113.	6.5	44
70	Analysis ofHox gene expression during early avian heart development. Developmental Dynamics, 1998, 213, 82-91.	0.8	41
71	Thyroid transcription factor-1, hepatocyte nuclear factor-3beta and surfactant protein A and B in the developing chick lung. Journal of Anatomy, 1998, 193, 399-408.	0.9	40
72	Cardiomyocyte cell cycling, maturation, and growth by multinucleation in postnatal swine. Journal of Molecular and Cellular Cardiology, 2020, 146, 95-108.	0.9	39

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73	Twist1 Directly Regulates Genes That Promote Cell Proliferation and Migration in Developing Heart Valves. PLoS ONE, 2011, 6, e29758.	1.1	38
74	Postnatal Cardiac Development and Regenerative Potential in Large Mammals. Pediatric Cardiology, 2019, 40, 1345-1358.	0.6	37
75	Transcriptional regulation of heart valve development and disease. Cardiovascular Pathology, 2011, 20, 162-167.	0.7	36
76	Transcriptional Control of Cell Lineage Development in Epicardium-Derived Cells. Journal of Developmental Biology, 2013, 1, 92-111.	0.9	36
77	Placement of an Elastic Biodegradable Cardiac Patch on a Subacute Infarcted Heart Leads to Cellularization With Early Developmental Cardiomyocyte Characteristics. Journal of Cardiac Failure, 2012, 18, 585-595.	0.7	35
78	A specialized population of Periostin-expressing cardiac fibroblasts contributes to postnatal cardiomyocyte maturation and innervation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21469-21479.	3.3	35
79	Novel Cell Lines Promote the Discovery of Genes Involved in Early Heart Development. Developmental Biology, 2001, 235, 507-520.	0.9	34
80	Calcification and extracellular matrix dysregulation in human postmortem and surgical aortic valves. Heart, 2019, 105, 1616-1621.	1.2	33
81	Deficiency of Circulating Monocytes Ameliorates the Progression of Myxomatous Valve Degeneration in Marfan Syndrome. Circulation, 2020, 141, 132-146.	1.6	32
82	Developmental regulation of the mouse IGF-I exon 1 promoter region by calcineurin activation of NFAT in skeletal muscle. American Journal of Physiology - Cell Physiology, 2007, 292, C1887-C1894.	2.1	31
83	Anterior expression of thecaudal homologuecCdx-B activates a posterior genetic program in avian embryos. Developmental Dynamics, 2001, 221, 412-421.	0.8	29
84	Microarray analysis of Tbx5-induced genes expressed in the developing heart. Developmental Dynamics, 2006, 235, 2868-2880.	0.8	29
85	<i>FoxO1</i> is required in endothelial but not myocardial cell lineages during cardiovascular development. Developmental Dynamics, 2012, 241, 803-813.	0.8	29
86	Epicardium-derived fibroblasts in heart development and disease. Journal of Molecular and Cellular Cardiology, 2016, 91, 23-27.	0.9	29
87	Requirements for <i>Jag1â€Rbpj</i> mediated <i>Notch</i> signaling during early mouse lens development. Developmental Dynamics, 2012, 241, 493-504.	0.8	28
88	Macrophage lineages in heart valve development and disease. Cardiovascular Research, 2021, 117, 663-673.	1.8	28
89	Transcriptional Regulation of Postnatal Cardiomyocyte Maturation and Regeneration. International Journal of Molecular Sciences, 2021, 22, 3288.	1.8	27
90	DiGeorge Syndrome, Tbx1, and Retinoic Acid Signaling Come Full Circle. Circulation Research, 2010, 106, 630-632.	2.0	26

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91	Ras-Related Signaling Pathways in Valve Development: Ebb and Flow. Physiology, 2005, 20, 390-397.	1.6	24
92	Ube2v1 Positively Regulates Protein Aggregation by Modulating Ubiquitin Proteasome System Performance Partially Through K63 Ubiquitination. Circulation Research, 2020, 126, 907-922.	2.0	22
93	Measuring cardiomyocyte cell-cycle activity and proliferation in the age of heart regeneration. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H579-H596.	1.5	21
94	Neuregulin 1 makes heart muscle. Nature, 2015, 520, 445-446.	13.7	20
95	Endothelial Cell Lineage Analysis Does Not Provide Evidence for EMT in Adult Valve Homeostasis and Disease. Anatomical Record, 2019, 302, 125-135.	0.8	20
96	Restoration ofDSCR1 to disomy in the trisomy 16 mouse model of Down syndrome does not correct cardiac or craniofacial development anomalies. Developmental Dynamics, 2005, 233, 954-963.	0.8	19
97	Gene Expression and Collagen Fiber Micromechanical Interactions of the Semilunar Heart Valve Interstitial Cell. Cellular and Molecular Bioengineering, 2012, 5, 254-265.	1.0	19
98	Congenital heart disease: Genetic causes and developmental insights. Progress in Pediatric Cardiology, 2005, 20, 101-111.	0.2	17
99	Hypoxia promotes primitive glycosaminoglycan-rich extracellular matrix composition in developing heart valves. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H1143-H1154.	1.5	16
100	Notch Signaling and the Developing Skeleton. Advances in Experimental Medicine and Biology, 2012, 727, 114-130.	0.8	15
101	MAP kinase activation in avian cardiovascular development. Developmental Dynamics, 2004, 230, 773-780.	0.8	12
102	Genome-wide Twist1 occupancy in endocardial cushion cells, embryonic limb buds, and peripheral nerve sheath tumor cells. BMC Genomics, 2014, 15, 821.	1.2	12
103	Scar Formation with Decreased Cardiac Function Following Ischemia/Reperfusion Injury in 1 Month Old Swine. Journal of Cardiovascular Development and Disease, 2020, 7, 1.	0.8	12
104	Congenital Heart Disease Linked to Maternal Autoimmunity against Cardiac Myosin. Journal of Immunology, 2014, 192, 4074-4082.	0.4	11
105	Periostin-expressing Schwann cells and endoneurial cardiac fibroblasts contribute to sympathetic nerve fasciculation after birth. Journal of Molecular and Cellular Cardiology, 2021, 154, 124-136.	0.9	11
106	Commitment, Differentiation, and Diversification of Avian Cardiac Progenitor Cells. Annals of the New York Academy of Sciences, 1995, 752, 1-8.	1.8	10
107	Cross Talk between NOTCH Signaling and Biomechanics in Human Aortic Valve Disease Pathogenesis. Journal of Cardiovascular Development and Disease, 2014, 1, 237-256.	0.8	10
108	Cytokinesis, Beta-Blockers, and Congenital Heart Disease. New England Journal of Medicine, 2020, 382, 291-293.	13.9	10

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109	Calcineurin signaling in avian cardiovascular development. Developmental Dynamics, 2004, 229, 300-311.	0.8	8
110	TBX5: a developmental key that fits many locks. Journal of Molecular and Cellular Cardiology, 2003, 35, 1175-1177.	0.9	7
111	Switched at birth. Nature, 2014, 509, 572-573.	13.7	7
112	Timing of Repair in Tetralogy of Fallot: Effects on Outcomes and Myocardial Health. Cardiology in Review, 2021, 29, 62-67.	0.6	7
113	Molecular Mechanisms of Heart Valve Development and Disease. , 2016, , 145-151.		6
114	To EndoMT or Not to EndoMT. Circulation Research, 2020, 126, 985-987.	2.0	4
115	Heart Development and Tâ€box Transcription Factors: Lessons from Avian Embryos. Advances in Developmental Biology (Amsterdam, Netherlands), 2007, , 69-91.	0.4	3
116	Teed Off. Circulation Research, 2008, 102, 1295-1297.	2.0	3
117	T-Box Factors. , 2010, , 651-671.		3
118	Porcine Models of Heart Regeneration. Journal of Cardiovascular Development and Disease, 2022, 9, 93.	0.8	3
119	The Molecular Genetic Revolution in Congenital Heart Disease. American Journal of Roentgenology, 2001, 176, 575-581.	1.0	2
120	At the Heart of the Matter: A Tribute to Roger Markwald. Anatomical Record, 2019, 302, 12-13.	0.8	2
121	Epigenetic Regulation of Heart Failure: Cell Type Matters. Circulation Research, 2021, 129, 414-416.	2.0	2
122	A Twist of Proepicardial Fate. Circulation Research, 2013, 113, 1106-1108.	2.0	1
123	Developmental Pathways and Aortic Valve Calcification. Contemporary Cardiology, 2020, , 47-71.	0.0	1
124	A clinical scoring system for early onset (neonatal) Marfan syndrome. Genetics in Medicine, 2022, , .	1.1	1
125	Disruption of MEF2 activity in cardiomyoblasts inhibits cardiomyogenesis. Journal of Cell Science, 2006, 119, 4367-4367.	1.2	0
126	Disruption of MEF2 activity in cardiomyoblasts inhibits cardiomyogenesis. Journal of Cell Science, 2007, 120, 200-200.	1.2	0

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127	Transcriptional Control of Cardiogenesis. , 2012, , 35-46.		0
128	Pharmacological Inhibition of Macrophage Infiltration Prevents Myxomatous Valve Degeneration in Marfan Syndrome. FASEB Journal, 2021, 35, .	0.2	0
129	Cardiomyocyte Cell Cycling, Maturation, and Growth by Multinucleation in Postnatal Swine. FASEB Journal, 2021, 35, .	0.2	0
130	Prox1+ Endothelial Cells in Heart Valve Development and Homeostasis. FASEB Journal, 2021, 35, .	0.2	0
131	Precise levels of Tbx20 are necessary for cardiac chamber and valve formation in vivo in mice. FASEB Journal, 2011, 25, 177.7.	0.2	0
132	BMPâ€pSmad1/5/8 Pathway Activation in Calcific Aortic Valve Disease. FASEB Journal, 2015, 29, 553.4.	0.2	0
133	Abstract 521: Cardiac Fibroblasts are Activated During Postnatal Extracellular Matrix Remodeling. Circulation Research, 2019, 125, .	2.0	0
134	Abstract 423: Cardiomyocyte Maturation and Multinucleation in Postnatal Swine. Circulation Research, 2019, 125, .	2.0	0
135	Assessing Vascularization of the Heart of Young Pigs After Cardiac Injury by Ischemia/ Reperfusion. FASEB Journal, 2020, 34, 1-1.	0.2	0