Joy Lincoln

List of Publications by Citations

66 papers	3,737 citations	27 h-index	61 g-index
78 ext. papers	4,333 ext. citations	5.9 avg, IF	5.08 L-index

#	Paper	IF	Citations
66	FGF23 induces left ventricular hypertrophy. *Journal of Clinical Investigation*, **2011**, 121, 4393-408	15.9	1351
65	Extracellular matrix remodeling and organization in developing and diseased aortic valves. *Circulation Research*, **2006**, 98, 1431-8	15.7	318
64	Development of heart valve leaflets and supporting apparatus in chicken and mouse embryos. *Developmental Dynamics*, **2004**, 230, 239-50	2.9	210
63	Hearts and bones: shared regulatory mechanisms in heart valve, cartilage, tendon, and bone development. *Developmental Biology*, **2006**, 294, 292-302	3.1	178
62	Sox9 is required for precursor cell expansion and extracellular matrix organization during mouse heart valve development. *Developmental Biology*, **2007**, 305, 120-32	3.1	140
61	Endothelial nitric oxide signaling regulates Notch1 in aortic valve disease. *Journal of Molecular and Cellular Cardiology*, **2013**, 60, 27-35	5.8	108
60	Reduced sox9 function promotes heart valve calcification phenotypes in vivo. *Circulation Research*, **2010**, 106, 712-9	15.7	98
59	mTert expression correlates with telomerase activity during the differentiation of murine embryonic stem cells. *Mechanisms of Development*, **2000**, 97, 109-16	1.7	98
58	Scleraxis is required for cell lineage differentiation and extracellular matrix remodeling during murine heart valve formation in vivo. *Circulation Research*, **2008**, 103, 948-56	15.7	87
57	BMP and FGF regulatory pathways control cell lineage diversification of heart valve precursor cells. *Developmental Biology*, **2006**, 292, 292-302	3.1	78
56	Increased mitochondrial biogenesis in muscle improves aging phenotypes in the mtDNA mutator mouse. *Human Molecular Genetics*, **2012**, 21, 2288-97	5.6	69
55	Characterisation of Wnt gene expression during the differentiation of murine embryonic stem cells in vitro: role of Wnt3 in enhancing haematopoietic differentiation. *Mechanisms of Development*, **2001**, 103, 49-59	1.7	69
54	ColVa1 and ColXIa1 are required for myocardial morphogenesis and heart valve development. *Developmental Dynamics*, **2006**, 235, 3295-305	2.9	50
53	Heart valve development, maintenance, and disease: the role of endothelial cells. *Current Topics in Developmental Biology*, **2012**, 100, 203-32	5.3	47
52	Temporal and spatial expression of collagens during murine atrioventricular heart valve development and maintenance. *Developmental Dynamics*, **2008**, 237, 3051-8	2.9	44
51	Valve Endothelial Cell-Derived Tgf� Signaling Promotes Nuclear Localization of Sox9 in Interstitial Cells Associated With Attenuated Calcification. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 328-38	9.4	42
50	Genetics of valvular heart disease. *Current Cardiology Reports*, **2014**, 16, 487	4.2	40

49	Mmp15 is a direct target of Snai1 during endothelial to mesenchymal transformation and endocardial cushion development. *Developmental Biology*, **2011**, 359, 209-21	3.1	40
48	Molecular and developmental mechanisms of congenital heart valve disease. *Birth Defects Research Part A: Clinical and Molecular Teratology*, **2011**, 91, 526-34		40
47	Collagen XIV is important for growth and structural integrity of the myocardium. *Journal of Molecular and Cellular Cardiology*, **2012**, 53, 626-38	5.8	39
46	Macrophage Transitions in Heart Valve Development and Myxomatous Valve Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 636-644	9.4	35
45	Etiology of valvular heart disease-genetic and developmental origins. *Circulation Journal*, **2014**, 78, 1801-7	2.9	35
44	Tgf[illegible]Smad and MAPK signaling mediate scleraxis and proteoglycan expression in heart valves. *Journal of Molecular and Cellular Cardiology*, **2013**, 65, 137-46	5.8	35
43	Calcific Aortic Valve Disease: a Developmental Biology Perspective. *Current Cardiology Reports*, **2018**, 20, 21	4.2	34
42	HAND2 Target Gene Regulatory Networks Control Atrioventricular Canal and Cardiac Valve Development. *Cell Reports*, **2017**, 19, 1602-1613	10.6	30
41	Sox9 transcriptionally represses Spp1 to prevent matrix mineralization in maturing heart valves and chondrocytes. *PLoS ONE*, **2011**, 6, e26769	3.7	29
40	Contribution of Extra-Cardiac Cells in Murine Heart Valves is Age-Dependent. *Journal of the American Heart Association*, **2017**, 6,	6	28
39	Rbfox2 function in RNA metabolism is impaired in hypoplastic left heart syndrome patient hearts. *Scientific Reports*, **2016**, 6, 30896	4.9	27
38	Differential changes in TGF-[illegible]BMP signaling pathway in the right ventricular myocardium of newborns with hypoplastic left heart syndrome. *Journal of Cardiac Failure*, **2010**, 16, 628-34	3.3	25
37	Increased dietary intake of vitamin A promotes aortic valve calcification in vivo. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 285-93	9.4	23
36	Dynamic Heterogeneity of the Heart Valve Interstitial Cell Population in Mitral Valve Health and Disease. *Journal of Cardiovascular Development and Disease*, **2015**, 2, 214-232	4.2	20
35	Growth and maturation of heart valves leads to changes in endothelial cell distribution, impaired function, decreased metabolism and reduced cell proliferation. *Journal of Molecular and Cellular Cardiology*, **2016**, 100, 72-82	5.8	20
34	Genetic basis of aortic valvular disease. *Current Opinion in Cardiology*, **2017**, 32, 239-245	2.1	19
33	Myocardial alternative RNA splicing and gene expression profiling in early stage hypoplastic left heart syndrome. *PLoS ONE*, **2012**, 7, e29784	3.7	18
32	Loss of ADAMTS19 causes progressive non-syndromic heart valve disease. *Nature Genetics*, **2020**, 52, 40-47	36.3	18

31	A microfluidic shear device that accommodates parallel high and low stress zones within the same culturing chamber. *Biomicrofluidics*, **2014**, 8, 054106	3.2	17
30	The Genetic Regulation of Aortic Valve Development and Calcific Disease. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 162	5.4	15
29	miR-486 is modulated by stretch and increases ventricular growth. *JCI Insight*, **2019**, 4,	9.9	14
28	Biology and Biomechanics of the Heart Valve Extracellular Matrix. *Journal of Cardiovascular Development and Disease*, **2020**, 7,	4.2	14
27	MG 53 Protein Protects Aortic Valve Interstitial Cells From Membrane Injury and Fibrocalcific Remodeling. *Journal of the American Heart Association*, **2019**, 8, e009960	6	13
26	Hemodynamic Characterization of a Mouse Model for Investigating the Cellular and Molecular Mechanisms of Neotissue Formation in Tissue-Engineered Heart Valves. *Tissue Engineering - Part C: Methods*, **2015**, 21, 987-94	2.9	12
25	Nitric oxide prevents aortic valve calcification by S-nitrosylation of USP9X to activate NOTCH signaling. *Science Advances*, **2021**, 7,	14.3	12
24	Postnatal and Adult Aortic Heart Valves Have Distinctive Transcriptional Profiles Associated With Valve Tissue Growth and Maintenance Respectively. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 30	5.4	9
23	Snai1 is important for avian epicardial cell transformation and motility. *Developmental Dynamics*, **2013**, 242, 699-708	2.9	9
22	RNA-seq analysis to identify novel roles of scleraxis during embryonic mouse heart valve remodeling. *PLoS ONE*, **2014**, 9, e101425	3.7	8
21	The Endocardium and Heart Valves. *Cold Spring Harbor Perspectives in Biology*, **2020**, 12,	10.2	7
20	Cost-benefit analysis of robotic versus nonrobotic minimally invasive mitral valve surgery. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2015**, 10, 90-5	1.5	6
19	Effect of Left and Right Coronary Flow Waveforms on Aortic Sinus Hemodynamics and Leaflet Shear Stress: Correlation with Calcification Locations. *Annals of Biomedical Engineering*, **2020**, 48, 2796-2808	4.7	6
18	Disruption of foxc1 genes in zebrafish results in dosage-dependent phenotypes overlapping Axenfeld-Rieger syndrome. *Human Molecular Genetics*, **2020**, 29, 2723-2735	5.6	5
17	Smooth Muscle Actin Expression in Mitral Valve Interstitial Cells is Important for Mediating Extracellular Matrix Remodeling. *Journal of Cardiovascular Development and Disease*, **2020**, 7,	4.2	5
16	Isolation of murine valve endothelial cells. *Journal of Visualized Experiments*, **2014**,	1.6	4
15	Dynamic Expression Profiles of Sox9 in Embryonic, Post Natal, and Adult Heart Valve Cell Populations. *Anatomical Record*, **2019**, 302, 108-116	2.1	4
14	Molecular markers of cardiomyopathy in cyanotic pediatric heart disease. *Progress in Pediatric Cardiology*, **2011**, 32, 19-23	0.4	2

List of Publications

13	Pulmonary Vein Stenosis: Moving From Past Pessimism to Future Optimism. *Frontiers in Pediatrics*, **2021**, 9, 747812	3.4	2
12	Oxidative Stress in Cardiac Valve Development. *Oxidative Stress in Applied Basic Research and Clinical Practice*, **2017**, 1-18		2
11	KPT-330 Prevents Aortic Valve Calcification via a Novel C/EBPβ Signaling Pathway. *Circulation Research*, **2021**, 128, 1300-1316	15.7	2
10	Molecular and Mechanical Mechanisms of Calcification Pathology Induced by Bicuspid Aortic Valve Abnormalities. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 677977	5.4	2
9	Constructing and evaluating caspase-activatable adeno-associated virus vector for gene delivery to the injured heart. *Journal of Controlled Release*, **2020**, 328, 834-845	11.7	1
8	Tgfβ1-Cthrc1 Signaling Plays an Important Role in the Short-Term Reparative Response to Heart Valve Endothelial Injury. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 2923-2942	9.4	1
7	Genetic and Developmental Contributors to Aortic Stenosis. *Circulation Research*, **2021**, 128, 1330-1343	15.7	1
6	Sox9- and Scleraxis-Cre Lineage Fate Mapping in Aortic and Mitral Valve Structures. *Journal of Cardiovascular Development and Disease*, **2014**, 1, 163-176	4.2	
5	MG53 Protein Protects Aortic Valve Interstitial Cells from Membrane Injury and Fibrocalcific Remodeling. *FASEB Journal*, **2019**, 33, 833.16	0.9	
4	Cost-Benefit Analysis of Robotic versus Nonrobotic Minimally Invasive Mitral Valve Surgery. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2015**, 10, 90-95	1.5	
3	Four-dimensional Ultrasound for Characterization of In Vivo Murine Aortic Valve Dynamics. *Structural Heart*, **2021**, 5, 27-27	0.6	
2	Utilizing Microscopy To Understand Mechanisms Of Heart Valve Morphogenesis. *Microscopy and Microanalysis*, **2016**, 22, 1020-1021	0.5	
1	Molecular and Cellular Developments in Heart Valve Development and Disease **2018**, 207-239		