

Jonathan T Butcher

List of Publications by Year in descending order

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131
papers

7,994
citations

57631

44
h-index

51492

86
g-index

138
all docs

138
docs citations

138
times ranked

8915
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Bioprinting of heterogeneous aortic valve conduits with alginate/gelatin hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1255-1264.	2.1	818
2	Rapid 3D printing of anatomically accurate and mechanically heterogeneous aortic valve hydrogel scaffolds. <i>Biofabrication</i> , 2012, 4, 035005.	3.7	570
3	Three-dimensional printed trileaflet valve conduits using biological hydrogels and human valve interstitial cells. <i>Acta Biomaterialia</i> , 2014, 10, 1836-1846.	4.1	369
4	Matrix stiffening promotes a tumor vasculature phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 492-497.	3.3	295
5	Mitral valve disease—morphology and mechanisms. <i>Nature Reviews Cardiology</i> , 2015, 12, 689-710.	6.1	281
6	Unique Morphology and Focal Adhesion Development of Valvular Endothelial Cells in Static and Fluid Flow Environments. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1429-1434.	1.1	251
7	Valvular Endothelial Cells Regulate the Phenotype of Interstitial Cells in Co-culture: Effects of Steady Shear Stress. <i>Tissue Engineering</i> , 2006, 12, 905-915.	4.9	185
8	Arterial and aortic valve calcification inversely correlates with osteoporotic bone remodelling: a role for inflammation. <i>European Heart Journal</i> , 2010, 31, 1975-1984.	1.0	180
9	Inflammatory Cytokines Promote Mesenchymal Transformation in Embryonic and Adult Valve Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 121-130.	1.1	176
10	Transcriptional Profiles of Valvular and Vascular Endothelial Cells Reveal Phenotypic Differences. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 69-77.	1.1	172
11	Aortic valve disease and treatment: The need for naturally engineered solutions. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 242-268.	6.6	168
12	Periostin promotes atrioventricular mesenchyme matrix invasion and remodeling mediated by integrin signaling through Rho/PI 3-kinase. <i>Developmental Biology</i> , 2007, 302, 256-266.	0.9	159
13	Naturally Engineered Maturation of Cardiomyocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 50.	1.8	147
14	Current progress in tissue engineering of heart valves: multiscale problems, multiscale solutions. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 1155-1172.	1.4	139
15	Side-Specific Endothelial-Dependent Regulation of Aortic Valve Calcification. <i>American Journal of Pathology</i> , 2013, 182, 1922-1931.	1.9	137
16	Transitions in Early Embryonic Atrioventricular Valvular Function Correspond With Changes in Cushion Biomechanics That Are Predictable by Tissue Composition. <i>Circulation Research</i> , 2007, 100, 1503-1511.	2.0	136
17	Valvulogenesis: the moving target. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1489-1503.	1.8	132
18	Stiffness and adhesivity control aortic valve interstitial cell behavior within hyaluronic acid based hydrogels. <i>Acta Biomaterialia</i> , 2013, 9, 7640-7650.	4.1	123

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19	Mechanical regulation of cardiac development. <i>Frontiers in Physiology</i> , 2014, 5, 318.	1.3	119
20	Mechanobiology of the aortic heart valve. <i>Journal of Heart Valve Disease</i> , 2008, 17, 62-73.	0.5	119
21	Neonatal and Adult Cardiovascular Pathophysiological Remodeling and Repair. <i>Annals of the New York Academy of Sciences</i> , 2008, 1123, 30-40.	1.8	118
22	Heart function and hemodynamic analysis for zebrafish embryos. <i>Developmental Dynamics</i> , 2017, 246, 868-880.	0.8	118
23	Valvular endothelial cells and the mechanoregulation of valvular pathology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1445-1457.	1.8	112
24	Effects of shear stress pattern and magnitude on mesenchymal transformation and invasion of aortic valve endothelial cells. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2326-2337.	1.7	110
25	Spatiotemporal single-cell RNA sequencing of developing chicken hearts identifies interplay between cellular differentiation and morphogenesis. <i>Nature Communications</i> , 2021, 12, 1771.	5.8	109
26	Cyclic strain anisotropy regulates valvular interstitial cell phenotype and tissue remodeling in three-dimensional culture. <i>Acta Biomaterialia</i> , 2012, 8, 1710-1719.	4.1	105
27	Porcine aortic valve interstitial cells in three-dimensional culture: comparison of phenotype with aortic smooth muscle cells. <i>Journal of Heart Valve Disease</i> , 2004, 13, 478-85; discussion 485-6.	0.5	105
28	Fabrication of Aligned Nanofiber Polymer Yarn Networks for Anisotropic Soft Tissue Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16950-16960.	4.0	102
29	ROBO4 variants predispose individuals to bicuspid aortic valve and thoracic aortic aneurysm. <i>Nature Genetics</i> , 2019, 51, 42-50.	9.4	101
30	Quantitative optimization of solid freeform deposition of aqueous hydrogels. <i>Biofabrication</i> , 2013, 5, 035001.	3.7	84
31	Active tissue stiffness modulation controls valve interstitial cell phenotype and osteogenic potential in 3D culture. <i>Acta Biomaterialia</i> , 2016, 36, 42-54.	4.1	84
32	Living nano-micro fibrous woven fabric/hydrogel composite scaffolds for heart valve engineering. <i>Acta Biomaterialia</i> , 2017, 51, 89-100.	4.1	81
33	Optimizing Photo-Encapsulation Viability of Heart Valve Cell Types in 3D Printable Composite Hydrogels. <i>Annals of Biomedical Engineering</i> , 2017, 45, 360-377.	1.3	71
34	Quantitative volumetric analysis of cardiac morphogenesis assessed through micro-computed tomography. <i>Developmental Dynamics</i> , 2007, 236, 802-809.	0.8	67
35	Hemodynamic patterning of the avian atrioventricular valve. <i>Developmental Dynamics</i> , 2011, 240, 23-35.	0.8	67
36	The living aortic valve: From molecules to function. <i>Global Cardiology Science & Practice</i> , 2014, 2014, 11.	0.3	63

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37	Developmental Mechanisms of Aortic Valve Malformation and Disease. Annual Review of Physiology, 2017, 79, 21-41.	5.6	62
38	Equibiaxial strain stimulates fibroblastic phenotype shift in smooth muscle cells in an engineered tissue model of the aortic wall. Biomaterials, 2006, 27, 5252-5258.	5.7	53
39	Isolation of Valvular Endothelial Cells. Journal of Visualized Experiments, 2010, , .	0.2	53
40	Endothelial-Derived Oxidative Stress Drives Myofibroblastic Activation and Calcification of the Aortic Valve. PLoS ONE, 2015, 10, e0123257.	1.1	52
41	Notch-Tnf signalling is required for development and homeostasis of arterial valves. European Heart Journal, 2017, 38, ehv520.	1.0	49
42	Quantitative in vivo imaging of embryonic development: Opportunities and challenges. Differentiation, 2012, 84, 149-162.	1.0	48
43	An ex-ovo&/em> Chicken Embryo Culture System Suitable for Imaging and Microsurgery Applications. Journal of Visualized Experiments, 2010, , .	0.2	46
44	Heterogeneous Susceptibility of Valve Endothelial Cells to Mesenchymal Transformation in Response to TNF α . Annals of Biomedical Engineering, 2014, 42, 149-161.	1.3	44
45	Cadherin-11 Overexpression Induces Extracellular Matrix Remodeling and Calcification in Mature Aortic Valves. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1627-1637.	1.1	44
46	Cadherin-11 coordinates cellular migration and extracellular matrix remodeling during aortic valve maturation. Developmental Biology, 2015, 407, 145-157.	0.9	43
47	Quantitative three-dimensional imaging of live avian embryonic morphogenesis via micro-computed tomography. Developmental Dynamics, 2011, 240, 1949-1957.	0.8	42
48	Inflammatory Regulation of Valvular Remodeling: The Good(?), the Bad, and the Ugly. International Journal of Inflammation, 2011, 2011, 1-13.	0.9	41
49	Cyclic Mechanical Loading Is Essential for Rac1-Mediated Elongation and Remodeling of the Embryonic Mitral Valve. Current Biology, 2016, 26, 27-37.	1.8	40
50	Comparison of Mesenchymal Stem Cell Source Differentiation Toward Human Pediatric Aortic Valve Interstitial Cells within 3D Engineered Matrices. Tissue Engineering - Part C: Methods, 2015, 21, 795-807.	1.1	36
51	Quantitative Three-dimensional Analysis of Embryonic Chick Morphogenesis Via Microcomputed Tomography. Anatomical Record, 2011, 294, 1-10.	0.8	35
52	Computational Fluid Dynamics of Developing Avian Outflow Tract Heart Valves. Annals of Biomedical Engineering, 2012, 40, 2212-2227.	1.3	35
53	NF κ B (Nuclear Factor κ -Light-Chain Enhancer of Activated B Cells) Activity Regulates Cell-Type-Specific and Context-Specific Susceptibility to Calcification in the Aortic Valve. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 638-655.	1.1	35
54	Interactions between TGF β 1 and cyclic strain in modulation of myofibroblastic differentiation of canine mitral valve interstitial cells in 3D culture. Journal of Veterinary Cardiology, 2012, 14, 211-221.	0.3	34

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55	Growth and hemodynamics after early embryonic aortic arch occlusion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 735-751.	1.4	34
56	Two-photon microscopy-guided femtosecond-laser photoablation of avian cardiogenesis: noninvasive creation of localized heart defects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1728-H1735.	1.5	32
57	Inflammatory and Biomechanical Drivers of Endothelial-Interstitial Interactions in Calcific Aortic Valve Disease. <i>Circulation Research</i> , 2021, 128, 1344-1370.	2.0	32
58	3D-Printed Hydrogel Technologies for Tissue-Engineered Heart Valves. <i>3D Printing and Additive Manufacturing</i> , 2014, 1, 122-136.	1.4	31
59	Cyclic strain regulates pro-inflammatory protein expression in porcine aortic valve endothelial cells. <i>Journal of Heart Valve Disease</i> , 2008, 17, 571-7; discussion 578.	0.5	31
60	Calpain 9 as a therapeutic target in TGF β ² -induced mesenchymal transition and fibrosis. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	30
61	Computational simulation of hemodynamic-driven growth and remodeling of embryonic atrioventricular valves. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 1205-1217.	1.4	29
62	The mechanobiology of mitral valve function, degeneration, and repair. <i>Journal of Veterinary Cardiology</i> , 2012, 14, 47-58.	0.3	29
63	Quantification of embryonic atrioventricular valve biomechanics during morphogenesis. <i>Journal of Biomechanics</i> , 2012, 45, 895-902.	0.9	28
64	Valve interstitial cell tensional homeostasis directs calcification and extracellular matrix remodeling processes via RhoA signaling. <i>Biomaterials</i> , 2016, 105, 25-37.	5.7	28
65	Crystallinity of hydroxyapatite drives myofibroblastic activation and calcification in aortic valves. <i>Acta Biomaterialia</i> , 2018, 71, 24-36.	4.1	27
66	Cadherin-11 Expression Patterns in Heart Valves Associate with Key Functions during Embryonic Cushion Formation, Valve Maturation and Calcification. <i>Cells Tissues Organs</i> , 2013, 198, 300-310.	1.3	26
67	Population Heterogeneity in the Epithelial to Mesenchymal Transition Is Controlled by NFAT and Phosphorylated Sp1. <i>PLoS Computational Biology</i> , 2016, 12, e1005251.	1.5	26
68	Extracting physiological information in experimental biology via Eulerian video magnification. <i>BMC Biology</i> , 2019, 17, 103.	1.7	26
69	Incorporating nanocrystalline cellulose into a multifunctional hydrogel for heart valve tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 76-91.	2.1	26
70	Effects of Pulsed Contaminant Exposures on Early Life Stages of the Fathead Minnow. <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 49, 511-519.	2.1	25
71	TOXICITY MODELS OF PULSED COPPER EXPOSURE TO PIMEPHALES PROMELAS AND DAPHNIA MAGNA. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 2541.	2.2	25
72	Quantitative Three-Dimensional Analysis of Embryonic Chick Morphogenesis Via Microcomputed Tomography. <i>Anatomical Record</i> , 2011, 294, spc1-spc1.	0.8	25

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73	Transforming Growth Factor β^2 , Bone Morphogenetic Protein, and Vascular Endothelial Growth Factor Mediate Phenotype Maturation and Tissue Remodeling by Embryonic Valve Progenitor Cells: Relevance for Heart Valve Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2010, 16, 3375-3383.	1.6	24
74	Award Winner in the Young Investigator Category, 2017 Society for Biomaterials Annual Meeting and Exposition, Minneapolis, MN, April 05-08, 2017: Lymph node stiffness-mimicking hydrogels regulate human B-cell lymphoma growth and cell surface receptor expression in a molecular subtype-specific manner. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1833-1844.	2.1	23
75	Endothelial retention and phenotype on carbonized cardiovascular implant surfaces. <i>Biomaterials</i> , 2014, 35, 7714-7723.	5.7	21
76	The next frontier in cardiovascular developmental biology-an integrated approach to adult disease?. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007, 4, 60-61.	3.3	20
77	Serotonin Potentiates Transforming Growth Factor-beta3 Induced Biomechanical Remodeling in Avian Embryonic Atrioventricular Valves. <i>PLoS ONE</i> , 2012, 7, e42527.	1.1	20
78	The root problem of heart valve engineering. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	19
79	Tri-layered and Gel-like Nanofibrous Scaffolds with Anisotropic Features for Engineering Heart Valve Leaflets. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200053.	3.9	19
80	Cardiac developmental toxicity. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011, 93, 291-297.	3.6	18
81	Multi-Scale Biomechanical Remodeling in Aging and Genetic Mutant Murine Mitral Valve Leaflets: Insights into Marfan Syndrome. <i>PLoS ONE</i> , 2012, 7, e44639.	1.1	18
82	Projected Hydrologic Changes Under Mid-21st Century Climatic Conditions in a Sub-arctic Watershed. <i>Water Resources Management</i> , 2015, 29, 1467-1487.	1.9	18
83	Mechanotransduction Mechanisms in Mitral Valve Physiology and Disease Pathogenesis. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 83.	1.1	18
84	Effect of left atrial ligation-driven altered inflow hemodynamics on embryonic heart development: clues for prenatal progression of hypoplastic left heart syndrome. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 733-750.	1.4	18
85	Valve endothelial-interstitial interactions drive emergent complex calcific lesion formation in vitro. <i>Biomaterials</i> , 2021, 269, 120669.	5.7	17
86	Nanofiber-structured hydrogel yarns with pH-response capacity and cardiomyocyte-drivability for bio-microactuator application. <i>Acta Biomaterialia</i> , 2017, 60, 144-153.	4.1	16
87	Cardiac regeneration following cryoinjury in the adult zebrafish targets a maturation-specific biomechanical remodeling program. <i>Scientific Reports</i> , 2018, 8, 15661.	1.6	16
88	Prosthetic aortic graft replacement of the ascending thoracic aorta alters biomechanics of the native descending aorta as assessed by transthoracic echocardiography. <i>PLoS ONE</i> , 2020, 15, e0230208.	1.1	16
89	Monocytes and macrophages in heart valves: Uninvited guests or critical performers?. <i>Current Opinion in Biomedical Engineering</i> , 2018, 5, 82-89.	1.8	14
90	Spatial Regulation of Valve Interstitial Cell Phenotypes within Three-Dimensional Micropatterned Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1416-1425.	2.6	13

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91	Micro/Nano-Computed Tomography Technology for Quantitative Dynamic, Multi-scale Imaging of Morphogenesis. <i>Methods in Molecular Biology</i> , 2015, 1189, 47-61.	0.4	13
92	Bioprinting of Cardiac Tissues. , 2015, , 351-370.		11
93	JuPOETs: a constrained multiobjective optimization approach to estimate biochemical model ensembles in the Julia programming language. <i>BMC Systems Biology</i> , 2017, 11, 10.	3.0	11
94	Cohort-based multiscale analysis of hemodynamic-driven growth and remodeling of the embryonic pharyngeal arch arteries. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	10
95	The cycle of form and function in cardiac valvulogenesis. <i>Aswan Heart Centre Science & Practice Series</i> , 2011, 2011, .	0.3	10
96	Valvular heart diseases in the developing world: developmental biology takes center stage. <i>Journal of Heart Valve Disease</i> , 2012, 21, 234-40.	0.5	10
97	Targeted Mybpc3 Knock-Out Mice with Cardiac Hypertrophy Exhibit Structural Mitral Valve Abnormalities. <i>Journal of Cardiovascular Development and Disease</i> , 2015, 2, 48-65.	0.8	9
98	Induction of aortic valve calcification by celecoxib and its COX-2 independent derivatives is glucocorticoid-dependent. <i>Cardiovascular Pathology</i> , 2020, 46, 107194.	0.7	9
99	Age related extracellular matrix and interstitial cell phenotype in pulmonary valves. <i>Scientific Reports</i> , 2020, 10, 21338.	1.6	9
100	Uncovering transcriptional dark matter via gene annotation independent single-cell RNA sequencing analysis. <i>Nature Communications</i> , 2021, 12, 2158.	5.8	9
101	Hierarchical approaches for systems modeling in cardiac development. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 289-305.	6.6	8
102	The influence of external free energy and homeostasis on growth and shape change. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 64, 338-350.	2.3	8
103	OCT4-mediated inflammation induces cell reprogramming at the origin of cardiac valve development and calcification. <i>Science Advances</i> , 2021, 7, eabf7910.	4.7	7
104	Interfacing DNA hydrogels with ceramics for biofunctional architectural materials. <i>Materials Today</i> , 2022, 53, 98-105.	8.3	7
105	A SOX17-PDGFB signaling axis regulates aortic root development. <i>Nature Communications</i> , 2022, 13, .	5.8	5
106	Multidisciplinary Inquiry-Based Investigation Learning Using an Ex Ovo Chicken Culture Platform: Role of Vitamin A on Embryonic Morphogenesis. <i>American Biology Teacher</i> , 2012, 74, 636-643.	0.1	4
107	Systematic Analysis of the Smooth Muscle Wall Phenotype of the Pharyngeal Arch Arteries During Their Reorganization into the Great Vessels and Its Association with Hemodynamics. <i>Anatomical Record</i> , 2019, 302, 153-162.	0.8	4
108	Assessing Early Cardiac Outflow Tract Adaptive Responses Through Combined Experimental-Computational Manipulations. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3227-3242.	1.3	4

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109	Hydrostatic mechanical stress regulates growth and maturation of the atrioventricular valve. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	4
110	Rac1 mediates cadherin-11 induced cellular pathogenic processes in aortic valve calcification. <i>Cardiovascular Pathology</i> , 2022, 58, 107414.	0.7	4
111	Isolation and Culture of Avian Embryonic Valvular Progenitor Cells. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	3
112	The optimal shape of an aortic heart valve replacement “ on the road to the consensus. <i>QScience Connect</i> , 2017, 2017, .	0.2	3
113	Local fluid shear stress operates a molecular switch to drive fetal semilunar valve extension. <i>Developmental Dynamics</i> , 2021, , .	0.8	3
114	Biological Response to Sintered Titanium in Left Ventricular Assist Devices: Pseudointima, Neointima, and Pannus. <i>ASAIO Journal</i> , 2023, 69, 1-10.	0.9	3
115	Method for non-optical quantification of in situ local soft tissue biomechanics. <i>Journal of Biomechanics</i> , 2013, 46, 1938-1942.	0.9	2
116	Translational paradigms in scientific and clinical imaging of cardiac development. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2013, 99, 106-120.	3.6	2
117	Comparative analysis of metallic nanoparticles as exogenous soft tissue contrast for live in vivo micro-computed tomography imaging of avian embryonic morphogenesis. <i>Developmental Dynamics</i> , 2016, 245, 1001-1010.	0.8	2
118	Bioprinting Cardiovascular Organs. , 2018, , 163-187.		1
119	Biofabrication of thick vascularized neo-pedicle flaps for reconstructive surgery. <i>Translational Research</i> , 2019, 211, 84-122.	2.2	1
120	The Cell-specific Engagement of Notch and Wnt Pathways in Calcific Aortic Valve Disease. <i>Structural Heart</i> , 2021, 5, 25-25.	0.2	1
121	NFκB activation drives mesenchymal transformation and susceptibility to calcification in aortic valve endothelial cells. <i>FASEB Journal</i> , 2013, 27, 386.10.	0.2	1
122	Quantitative volumetric analysis of cardiac morphogenesis assessed through micro-computed tomography. <i>Developmental Dynamics</i> , 2007, 236, spc1-spc1.	0.8	0
123	Anisotropic Strain Fields Enhance Matrix Remodeling Through Elevated TGF-β ² Signaling. , 2011, , .		0
124	A Three-Dimensional Tissue Engineered Platform to Simulate Various Microvascular Shear Stress Conditions. <i>Journal of the American College of Surgeons</i> , 2016, 223, e190.	0.2	0
125	Forming effective relationships between academia and the medical devices industry with a focus on launching a smart heart valve prosthesis for pediatric patients. <i>Translational Medicine Communications</i> , 2019, 4, .	0.5	0
126	Inflammation Drives Endothelial-to-Mesenchymal Transition and Interstitial Calcification in 3D in Vitro Culture. , 2012, , .		0

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127	Regulation of Abnormal Atrioventricular Valve Development. , 2012, , .		0
128	Role of Bone Morphogenetic Proteins in Valvulogenesis. , 2013, , 307-315.		0
129	TNF α induced eNOS uncoupling mediates endothelial dysfunction through elevated reactive oxygen species. FASEB Journal, 2013, 27, 379.5.	0.2	0
130	Abstract 371: TNF α Drives Endothelial Dysfunction and Oxidative Stress via eNOS Uncoupling in Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, .	1.1	0
131	Abstract 4049: Stromal Wnt/ β -catenin antagonism with DKK1 promotes clonal expansion of multiple myeloma is identified using hyaluronic acid based 3D hydrogel. , 2014, , .		0