

# Jordan D Miller

## List of Publications by Year in descending order

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105  
papers

10,928  
citations

81900

39  
h-index

64796

79  
g-index

106  
all docs

106  
docs citations

106  
times ranked

12625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 779-803.	9.4	151
2	Effects of Altering Mitochondrial Antioxidant Capacity on Molecular and Phenotypic Drivers of Fibrocalcific Aortic Valve Stenosis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 694881.	2.4	2
3	Use of 3D Robotic Ultrasound for <i>In Vivo</i> Analysis of Mouse Kidneys. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
4	MnSOD protects against vascular calcification independent of changes in vascular function in hypercholesterolemic mice. <i>Atherosclerosis</i> , 2021, 331, 31-37.	0.8	1
5	Sirtuin 6 Protects Against Oxidative Stress and Vascular Dysfunction in Mice. <i>Frontiers in Physiology</i> , 2021, 12, 753501.	2.8	9
6	The Use of Virtual Reality to Reduce Preoperative Anxiety in First-Time Sternotomy Patients: A Randomized Controlled Pilot Trial. <i>Mayo Clinic Proceedings</i> , 2020, 95, 1148-1157.	3.0	24
7	Influences of Sex and Estrogen in Arterial and Valvular Calcification. <i>Frontiers in Endocrinology</i> , 2019, 10, 622.	3.5	26
8	Network Tomography for Understanding Phenotypic Presentations in Aortic Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 236-248.	5.3	66
9	Late-life time-restricted feeding and exercise differentially alter healthspan in obesity. <i>Aging Cell</i> , 2019, 18, e12966.	6.7	13
10	Targeting senescent cells alleviates obesity-induced metabolic dysfunction. <i>Aging Cell</i> , 2019, 18, e12950.	6.7	395
11	Length-independent telomere damage drives post-mitotic cardiomyocyte senescence. <i>EMBO Journal</i> , 2019, 38, .	7.8	307
12	Smooth muscle brain-derived neurotrophic factor contributes to airway hyperreactivity in a mouse model of allergic asthma. <i>FASEB Journal</i> , 2019, 33, 3024-3034.	0.5	29
13	A Potent and Specific CD38 Inhibitor Ameliorates Age-Related Metabolic Dysfunction by Reversing Tissue NAD <sup>+</sup> Decline. <i>Cell Metabolism</i> , 2018, 27, 1081-1095.e10.	16.2	238
14	TRPC6 and TRPC4 Heteromultimerization Mediates Store Depletion-Activated NCX1 Reversal in Proliferative Vascular Smooth Muscle Cells. <i>Channels</i> , 2018, 12, 119-125.	2.8	6
15	Ca <sup>2+</sup> Entry Through Reverse Mode Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Contributes to Store Operated Channel-Mediated Neointima Formation After Arterial Injury. <i>Canadian Journal of Cardiology</i> , 2018, 34, 791-799.	1.7	5
16	Senolytics improve physical function and increase lifespan in old age. <i>Nature Medicine</i> , 2018, 24, 1246-1256.	30.7	1,384
17	Sirt6 deficiency impairs corneal epithelial wound healing. <i>Aging</i> , 2018, 10, 1932-1946.	3.1	13
18	Organismal Sex is a Major Determinant of Phenotypic and Molecular Changes Caused by Genetic Inactivation of the Mitochondria-specific Deacetylase SIRT3. <i>FASEB Journal</i> , 2018, 32, 618.17.	0.5	0

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19	Paradoxical Effects of Overexpressing Human Catalase on Vascular Function and Atherosclerotic Plaque Composition in Hypercholesterolemic Mice. <i>FASEB Journal</i> , 2018, 32, lb303.	0.5	1
20	17 $\beta$ -Estradiol Alleviates Age-related Metabolic and Inflammatory Dysfunction in Male Mice Without Inducing Feminization. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 3-15.	3.6	91
21	Pathophysiology of Aortic Valve Stenosis: Is It Both Fibrocalcific and Sex Specific?. <i>Physiology</i> , 2017, 32, 182-196.	3.1	25
22	The Impact of Frailty on Patient-Centered Outcomes Following Aortic Valve Replacement. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 917-921.	3.6	36
23	Echocardiographic Approaches and Protocols for Comprehensive Phenotypic Characterization of Valvular Heart Disease in Mice. <i>Journal of Visualized Experiments</i> , 2017, . .	0.3	8
24	High fat diet and exercise lead to a disrupted and pathogenic DNA methylome in mouse liver. <i>Epigenetics</i> , 2017, 12, 55-69.	2.7	40
25	Cellular senescence: Implications for metabolic disease. <i>Molecular and Cellular Endocrinology</i> , 2017, 455, 93-102.	3.2	63
26	Sirt6 deficiency results in progression of glomerular injury in the kidney. <i>Aging</i> , 2017, 9, 1069-1083.	3.1	52
27	Bidirectional Translation in Cardiovascular Calcification. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, e19-24.	2.4	7
28	Chronic senolytic treatment alleviates established vasomotor dysfunction in aged or atherosclerotic mice. <i>Aging Cell</i> , 2016, 15, 973-977.	6.7	540
29	Frameworks for Proof-of-Concept Clinical Trials of Interventions That Target Fundamental Aging Processes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1415-1423.	3.6	66
30	Left ventricular dysfunction after degenerative mitral valve repair: A question of better molecular targets or better surgical timing?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 152, 1071-1074.	0.8	7
31	Quantification of GDF11 and Myostatin in Human Aging and Cardiovascular Disease. <i>Cell Metabolism</i> , 2016, 23, 1207-1215.	16.2	176
32	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. <i>Diabetes</i> , 2016, 65, 1606-1615.	0.6	185
33	Naturally occurring p16Ink4a-positive cells shorten healthy lifespan. <i>Nature</i> , 2016, 530, 184-189.	27.8	2,016
34	Conscripted by collagen. <i>Nature Materials</i> , 2016, 15, 257-258.	27.5	4
35	Sex-related differences in calcific aortic stenosis: correlating clinical and echocardiographic characteristics and computed tomography aortic valve calcium score to excised aortic valve weight. <i>European Heart Journal</i> , 2016, 37, 693-699.	2.2	70
36	Abstract 582: Overexpression of Catalase Impairs Aortic Valve Function and Accelerates Valvular Calcification in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	2.4	0

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37	Abstract 259: Genetic Inactivation of Sirt3 Does Not Alter Endothelial Function or Vascular Compliance in Hypercholesterolemic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	2.4	0
38	The Achilles™ heel of senescent cells: from transcriptome to senolytic drugs. <i>Aging Cell</i> , 2015, 14, 644-658.	6.7	1,534
39	Reward and Toxicity of Cocaine Metabolites Generated by Cocaine Hydrolase. <i>Cellular and Molecular Neurobiology</i> , 2015, 35, 819-826.	3.3	9
40	Molecular Determinants of Calpain-dependent Cleavage of Junctophilin-2 Protein in Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 17946-17955.	3.4	57
41	Nonbiased Molecular Screening Identifies Novel Molecular Regulators of Fibrogenic and Proliferative Signaling in Myxomatous Mitral Valve Disease. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 516-528.	5.1	45
42	Abstract 582: Overexpression of Mnsod Reduces Aortic Valve Calcification Through Repression of Pro-osteogenic Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	2.4	1
43	Evidence for time-dependent and adaptive mechanisms in the mitral valve following prolonged Angiotensin II infusion. <i>FASEB Journal</i> , 2015, 29, 764.2.	0.5	1
44	Effects of exercise on vasomotor function and vascular distensibility in angiotensin II-induced hypertension. <i>FASEB Journal</i> , 2015, 29, 994.25.	0.5	0
45	Overexpression of MnSOD Does Not Improve Endothelial Function in Hypercholesterolemic Mice. <i>FASEB Journal</i> , 2015, 29, 638.1.	0.5	0
46	Abstract 237: Role of Runx2 in Vascular Responses to Angiotensin II-Induced Hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	2.4	0
47	Abstract 18485: Runx2 Haploinsufficiency Attenuates Angiotensin II-mediated Fibrosis and Proliferation in Mouse Mitral Valves. <i>Circulation</i> , 2015, 132, .	1.6	0
48	Microtubule-Mediated Defects in Junctophilin-2 Trafficking Contribute to Myocyte Transverse-Tubule Remodeling and Ca <sup>2+</sup> Handling Dysfunction in Heart Failure. <i>Circulation</i> , 2014, 129, 1742-1750.	1.6	116
49	Impact of Aortic Valve Calcification, as Measured by MDCT, on Survival in Patients With Aortic Stenosis. <i>Journal of the American College of Cardiology</i> , 2014, 64, 1202-1213.	2.8	367
50	Mouse Models of Calcific Aortic Valve Disease. , 2014, , 67-80.		1
51	Abstract 27: Role of Sirtuin 6 in the Initiation and Progression of Calcific Aortic Valve Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	2.4	3
52	Abstract 270: Reduction of Mitochondrial Antioxidant Levels Augments Osteogenic Signaling Independent of Changes in Vasomotor Function in Aorta from Hypercholesterolemic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	2.4	0
53	Fibrocalcific Aortic Valve Disease. <i>Circulation Research</i> , 2013, 113, 209-222.	4.5	90
54	Orbicular origins. <i>Nature Materials</i> , 2013, 12, 476-478.	27.5	22

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55	TGF- $\beta^2$ signalling and reactive oxygen species drive fibrosis and matrix remodelling in myxomatous mitral valves. <i>Cardiovascular Research</i> , 2013, 99, 175-184.	3.8	112
56	Vascular Function During Prolonged Progression and Regression of Atherosclerosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 459-465.	2.4	17
57	Transcriptional and phenotypic changes in aorta and aortic valve with aging and MnSOD deficiency in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1428-H1439.	3.2	46
58	Neutralization of TNF $\alpha$ improves endothelial function and reduces vascular calcification in advanced atherosclerosis. <i>FASEB Journal</i> , 2013, 27, 1194.15.	0.5	0
59	Potential novel role of the immune system in the pathogenesis of myxomatous mitral valve disease. <i>FASEB Journal</i> , 2013, 27, 386.11.	0.5	0
60	Abstract 184: Sirt3 is a Critical Mediator of Diet-induced Vasomotor Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, .	2.4	0
61	Impact of ACE2 Deficiency and Oxidative Stress on Cerebrovascular Function With Aging. <i>Stroke</i> , 2012, 43, 3358-3363.	2.0	98
62	ACE2 Deficiency Augments Cerebrovascular Dysfunction during Aging. <i>FASEB Journal</i> , 2012, 26, lb651.	0.5	0
63	Functional consequences of ROS-induced ROS release in vascular endothelium. <i>FASEB Journal</i> , 2012, 26, 1129.11.	0.5	0
64	Over Expression of Dimethylarginine Dimethylaminohydrolase-1 (DDAH1) Slows Progression Fibrocalcific Aortic Valve Stenosis in Hypercholesterolemic Mice. <i>FASEB Journal</i> , 2012, 26, 137.11.	0.5	0
65	Abstract 186: Effect of Direct Thrombin Inhibition on Vascular Function and Aortic Valve Function in Hypercholesterolemic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	2.4	0
66	Abstract 366: Sirtuin 6 Reduces Osteogenic Signaling in Aortic Valve Interstitial Cells and Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	2.4	1
67	Calcific Aortic Valve Stenosis: Methods, Models, and Mechanisms. <i>Circulation Research</i> , 2011, 108, 1392-1412.	4.5	257
68	Vascular effects of Nox2-derived radicals are dependent upon mitochondrial antioxidant capacity in old mice. <i>FASEB Journal</i> , 2011, 25, 1093.7.	0.5	0
69	Novel Mechanisms Contributing to Fibrosis and Matrix Remodeling in Myxomatous Mitral Valve Disease. <i>FASEB Journal</i> , 2011, 25, lb484.	0.5	0
70	Critical Role for Copper/Zinc-Superoxide Dismutase in Preventing Spontaneous Intracerebral Hemorrhage During Acute and Chronic Hypertension in Mice. <i>Stroke</i> , 2010, 41, 790-797.	2.0	49
71	Spontaneous Intracerebral Hemorrhage during Acute and Chronic Hypertension in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 56-69.	4.3	93
72	Evidence for Active Regulation of Pro-Osteogenic Signaling in Advanced Aortic Valve Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 2482-2486.	2.4	88

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73	MnSOD protects against COX1-mediated endothelial dysfunction in chronic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1600-H1607.	3.2	40
74	Ankyrin $\beta$ is a critical determinant of vasomotor function. FASEB Journal, 2010, 24, 976.2.	0.5	0
75	Serotonin produces monoamine oxidase-dependent oxidative stress in human heart valves. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1354-H1360.	3.2	41
76	Protective effect of extracellular superoxide dismutase on endothelial function during aging. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1920-H1925.	3.2	52
77	Lowering Plasma Cholesterol Levels Halts Progression of Aortic Valve Disease in Mice. Circulation, 2009, 119, 2693-2701.	1.6	128
78	Effects of deep sedation or general anesthesia on cardiac function in mice undergoing cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 16.	3.3	38
79	Biventricular adaptation to volume overload in mice with aortic regurgitation. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 27.	3.3	14
80	Novel Aspects of Oxidative Stress in Cardiovascular Diseases. Circulation Journal, 2009, 73, 201-207.	1.6	129
81	Oxidative Stress through Activation of NAD(P)H Oxidase in Hypertensive Mice with Spontaneous Intracranial Hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1175-1185.	4.3	32
82	Dysregulation of Antioxidant Mechanisms Contributes to Increased Oxidative Stress in Calcific Aortic Valvular Stenosis in Humans. Journal of the American College of Cardiology, 2008, 52, 843-850.	2.8	293
83	The best medicine: exercise training normalizes chemosensitivity and sympathoexcitation in heart failure. Journal of Applied Physiology, 2008, 105, 779-781.	2.5	8
84	Respiratory System Determinants of Peripheral Fatigue and Endurance Performance. Medicine and Science in Sports and Exercise, 2008, 40, 457-461.	0.4	76
85	Shear stress influences spatial variations in vascular Mn-SOD expression: implication for LDL nitration. American Journal of Physiology - Cell Physiology, 2008, 294, C1576-C1585.	4.6	39
86	MnSOD deficiency increases endothelial dysfunction produced by intermittent hypoxia. FASEB Journal, 2008, 22, .	0.5	0
87	Serotonin produces MAO dependent oxidative stress in human heart valves. FASEB Journal, 2008, 22, 747.6.	0.5	1
88	MnSOD protects against COX1-mediated endothelial dysfunction in chronic heart failure. FASEB Journal, 2008, 22, 1237.1.	0.5	0
89	Carotid Chemoreceptor Modulation of Regional Blood Flow Distribution During Exercise in Health and Chronic Heart Failure. Circulation Research, 2007, 100, 1371-1378.	4.5	65
90	The effects of inspiratory intrathoracic pressure production on the cardiovascular response to submaximal exercise in health and chronic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H580-H592.	3.2	42

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91	Inspiratory muscles do not limit maximal incremental exercise performance in healthy subjects. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 353-361.	1.6	39
92	Treatment of airway inflammation improves exercise pulmonary gas exchange and performance in asthmatic subjects. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 120, 39-47.	2.9	29
93	Gene therapy for stroke: 2006 overview. <i>Current Hypertension Reports</i> , 2007, 9, 19-24.	3.5	15
94	Oxidative stress after intracranial hemorrhage. <i>FASEB Journal</i> , 2007, 21, A396.	0.5	0
95	Consequences of exercise-induced respiratory muscle work. <i>Respiratory Physiology and Neurobiology</i> , 2006, 151, 242-250.	1.6	282
96	Expiratory threshold loading impairs cardiovascular function in health and chronic heart failure during submaximal exercise. <i>Journal of Applied Physiology</i> , 2006, 101, 213-227.	2.5	35
97	Calcific Aortic Valve Stenosis in Old Hypercholesterolemic Mice. <i>Circulation</i> , 2006, 114, 2065-2069.	1.6	187
98	Carotid chemoreceptor modulation of regional blood flow distribution and vascular conductance during exercise. <i>FASEB Journal</i> , 2006, 20, A814.	0.5	0
99	Effects of augmented respiratory muscle pressure production on locomotor limb venous return during calf contraction exercise. <i>Journal of Applied Physiology</i> , 2005, 99, 1802-1815.	2.5	31
100	Skeletal muscle pump versus respiratory muscle pump: modulation of venous return from the locomotor limb in humans. <i>Journal of Physiology</i> , 2005, 563, 925-943.	2.9	138
101	Gas exchange during exercise in habitually active asthmatic subjects. <i>Journal of Applied Physiology</i> , 2005, 99, 1938-1950.	2.5	32
102	Repeat exercise normalizes the gas-exchange impairment induced by a previous exercise bout in asthmatic subjects. <i>Journal of Applied Physiology</i> , 2005, 99, 1843-1852.	2.5	31
103	Evidence of venous suction, but from where?. <i>Journal of Applied Physiology</i> , 2005, 99, 776-776.	2.5	0
104	Extrathoracic Obstruction and Hypoxemia Occurring During Exercise in a Competitive Female Cyclist. <i>Chest</i> , 2003, 124, 1602-1605.	0.8	7
105	Cardiorespiratory effects of inelastic chest wall restriction. <i>Journal of Applied Physiology</i> , 2002, 92, 2419-2428.	2.5	39