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	Naturally occurring p16Ink4a-positive cells shorten healthy lifespan. Nature, 2016, 530, 184-189.	27.8	2,016
2	The Achillesâ€™ heel of senescent cells: from transcriptome to senolytic drugs. Aging Cell, 2015, 14, 644-658.	6.7	1,534
3	Senolytics improve physical function and increase lifespan in old age. Nature Medicine, 2018, 24, 1246-1256.	30.7	1,384
4	Chronic senolytic treatment alleviates established vasomotor dysfunction in aged or atherosclerotic mice. Aging Cell, 2016, 15, 973-977.	6.7	540
5	Targeting senescent cells alleviates obesityâ€induced metabolic dysfunction. Aging Cell, 2019, 18, e12950.	6.7	395
6	Impact of Aortic Valve Calcification, asÂMeasured by MDCT, on Survival inÂPatients WithÂAortic Stenosis. Journal of the American College of Cardiology, 2014, 64, 1202-1213.	2.8	367
7	Lengthâ€independent telomere damage drives postâ€mitotic cardiomyocyte senescence. EMBO Journal, 2019, 38, .	7.8	307
8	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
9	Consequences of exercise-induced respiratory muscle work. Respiratory Physiology and Neurobiology, 2006, 151, 242-250.	1.6	282
10	Calcific Aortic Valve Stenosis: Methods, Models, and Mechanisms. Circulation Research, 2011, 108, 1392-1412.	4.5	257
11	A Potent and Specific CD38 Inhibitor Ameliorates Age-Related Metabolic Dysfunction by Reversing Tissue NAD+ Decline. Cell Metabolism, 2018, 27, 1081-1095.e10.	16.2	238
12	Calcific Aortic Valve Stenosis in Old Hypercholesterolemic Mice. Circulation, 2006, 114, 2065-2069.	1.6	187
13	Exercise Prevents Diet-Induced Cellular Senescence in Adipose Tissue. Diabetes, 2016, 65, 1606-1615.	0.6	185
14	Quantification of GDF11 and Myostatin in Human Aging and Cardiovascular Disease. Cell Metabolism, 2016, 23, 1207-1215.	16.2	176
15	Senolytic Drugs: Reducing Senescent Cell Viability to Extend Health Span. Annual Review of Pharmacology and Toxicology, 2021, 61, 779-803.	9.4	151
16	Skeletal muscle pumpversusrespiratory muscle pump: modulation of venous return from the locomotor limb in humans. Journal of Physiology, 2005, 563, 925-943.	2.9	138
17	Novel Aspects of Oxidative Stress in Cardiovascular Diseases. Circulation Journal, 2009, 73, 201-207.	1.6	129
18	Lowering Plasma Cholesterol Levels Halts Progression of Aortic Valve Disease in Mice. Circulation, 2009, 119, 2693-2701.	1.6	128

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19	Microtubule-Mediated Defects in Junctophilin-2 Trafficking Contribute to Myocyte Transverse-Tubule Remodeling and Ca ²⁺ Handling Dysfunction in Heart Failure. Circulation, 2014, 129, 1742-1750.	1.6	116
20	TGF-Î² signalling and reactive oxygen species drive fibrosis and matrix remodelling in myxomatous mitral valves. Cardiovascular Research, 2013, 99, 175-184.	3.8	112
21	Impact of ACE2 Deficiency and Oxidative Stress on Cerebrovascular Function With Aging. Stroke, 2012, 43, 3358-3363.	2.0	98
22	Spontaneous Intracerebral Hemorrhage during Acute and Chronic Hypertension in Mice. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 56-69.	4.3	93
23	17Î±-Estradiol Alleviates Age-related Metabolic and Inflammatory Dysfunction in Male Mice Without Inducing Feminization. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 3-15.	3.6	91
24	Fibrocalcific Aortic Valve Disease. Circulation Research, 2013, 113, 209-222.	4.5	90
25	Evidence for Active Regulation of Pro-Osteogenic Signaling in Advanced Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2482-2486.	2.4	88
26	Respiratory System Determinants of Peripheral Fatigue and Endurance Performance. Medicine and Science in Sports and Exercise, 2008, 40, 457-461.	0.4	76
27	Sex-related differences in calcific aortic stenosis: correlating clinical and echocardiographic characteristics and computed tomography aortic valve calcium score to excised aortic valve weight. European Heart Journal, 2016, 37, 693-699.	2.2	70
28	Frameworks for Proof-of-Concept Clinical Trials of Interventions That Target Fundamental Aging Processes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1415-1423.	3.6	66
29	Network Tomography for UnderstandingÂPhenotypic Presentations in Aortic Stenosis. JACC: Cardiovascular Imaging, 2019, 12, 236-248.	5.3	66
30	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
31	Cellular senescence: Implications for metabolic disease. Molecular and Cellular Endocrinology, 2017, 455, 93-102.	3.2	63
32	Molecular Determinants of Calpain-dependent Cleavage of Junctophilin-2 Protein in Cardiomyocytes. Journal of Biological Chemistry, 2015, 290, 17946-17955.	3.4	57
33	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
34	Sirt6 deficiency results in progression of glomerular injury in the kidney. Aging, 2017, 9, 1069-1083.	3.1	52
35	Critical Role for Copper/Zincâ€“Superoxide Dismutase in Preventing Spontaneous Intracerebral Hemorrhage During Acute and Chronic Hypertension in Mice. Stroke, 2010, 41, 790-797.	2.0	49
36	Transcriptional and phenotypic changes in aorta and aortic valve with aging and MnSOD deficiency in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1428-H1439.	3.2	46

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37	Nonbiased Molecular Screening Identifies Novel Molecular Regulators of Fibrogenic and Proliferative Signaling in Myxomatous Mitral Valve Disease. Circulation: Cardiovascular Genetics, 2015, 8, 516-528.	5.1	45
38	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
39	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
40	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
41	High fat diet and exercise lead to a disrupted and pathogenic DNA methylome in mouse liver. Epigenetics, 2017, 12, 55-69.	2.7	40
42	Cardiorespiratory effects of inelastic chest wall restriction. Journal of Applied Physiology, 2002, 92, 2419-2428.	2.5	39
43	Inspiratory muscles do not limit maximal incremental exercise performance in healthy subjects. Respiratory Physiology and Neurobiology, 2007, 156, 353-361.	1.6	39
44	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
45	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
46	The Impact of Frailty on Patient-Centered Outcomes Following Aortic Valve Replacement. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 917-921.	3.6	36
47	Expiratory threshold loading impairs cardiovascular function in health and chronic heart failure during submaximal exercise. Journal of Applied Physiology, 2006, 101, 213-227.	2.5	35
48	Gas exchange during exercise in habitually active asthmatic subjects. Journal of Applied Physiology, 2005, 99, 1938-1950.	2.5	32
49	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
50	Effects of augmented respiratory muscle pressure production on locomotor limb venous return during calf contraction exercise. Journal of Applied Physiology, 2005, 99, 1802-1815.	2.5	31
51	Repeat exercise normalizes the gas-exchange impairment induced by a previous exercise bout in asthmatic subjects. Journal of Applied Physiology, 2005, 99, 1843-1852.	2.5	31
52	Treatment of airway inflammation improves exercise pulmonary gas exchange and performance in asthmatic subjects. Journal of Allergy and Clinical Immunology, 2007, 120, 39-47.	2.9	29
53	Smooth muscle brainâ€derived neurotrophic factor contributes to airway hyperreactivity in a mouse model of allergic asthma. FASEB Journal, 2019, 33, 3024-3034.	0.5	29
54	Influences of Sex and Estrogen in Arterial and Valvular Calcification. Frontiers in Endocrinology, 2019, 10, 622.	3.5	26

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55	Pathophysiology of Aortic Valve Stenosis: Is It Both Fibrocalcific and Sex Specific?. Physiology, 2017, 32, 182-196.	3.1	25
56	The Use of Virtual Reality to Reduce Preoperative Anxiety in First-Time Sternotomy Patients: A Randomized Controlled Pilot Trial. Mayo Clinic Proceedings, 2020, 95, 1148-1157.	3.0	24
57	Orbicular origins. Nature Materials, 2013, 12, 476-478.	27.5	22
58	Vascular Function During Prolonged Progression and Regression of Atherosclerosis in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 459-465.	2.4	17
59	Gene therapy for stroke: 2006 overview. Current Hypertension Reports, 2007, 9, 19-24.	3.5	15
60	Biventricular adaptation to volume overload in mice with aortic regurgitation. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 27.	3.3	14
61	Lateâ€life timeâ€restricted feeding and exercise differentially alter healthspan in obesity. Aging Cell, 2019, 18, e12966.	6.7	13
62	Sirt6 deficiency impairs corneal epithelial wound healing. Aging, 2018, 10, 1932-1946.	3.1	13
63	Reward and Toxicity of Cocaine Metabolites Generated by Cocaine Hydrolase. Cellular and Molecular Neurobiology, 2015, 35, 819-826.	3.3	9
64	Sirtuin 6 Protects Against Oxidative Stress and Vascular Dysfunction in Mice. Frontiers in Physiology, 2021, 12, 753501.	2.8	9
65	The best medicine: exercise training normalizes chemosensitivity and sympathoexcitation in heart failure. Journal of Applied Physiology, 2008, 105, 779-781.	2.5	8
66	Echocardiographic Approaches and Protocols for Comprehensive Phenotypic Characterization of Valvular Heart Disease in Mice. Journal of Visualized Experiments, 2017, , .	0.3	8
67	Extrathoracic Obstruction and Hypoxemia Occurring During Exercise in a Competitive Female Cyclist. Chest, 2003, 124, 1602-1605.	0.8	7
68	Bidirectional Translation in Cardiovascular Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, e19-24.	2.4	7
69	Left ventricular dysfunction after degenerative mitral valve repair: A question of better molecular targets or better surgical timing?. Journal of Thoracic and Cardiovascular Surgery, 2016, 152, 1071-1074.	0.8	7
70	TRPC6 and TRPC4 Heteromultimerization Mediates Store Depletion-Activated NCX1 Reversal in Proliferative Vascular Smooth Muscle Cells. Channels, 2018, 12, 119-125.	2.8	6
71	Ca 2+ Entry Through Reverse Mode Na + /Ca 2+ Exchanger Contributes to Store Operated Channel-Mediated Neointima Formation After Arterial Injury. Canadian Journal of Cardiology, 2018, 34, 791-799.	1.7	5
72	Conscripted by collagen. Nature Materials, 2016, 15, 257-258.	27.5	4

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73	Abstract 27: Role of Sirtuin 6 in the Initiation and Progression of Calcific Aortic Valve Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, .	2.4	3
74	Effects of Altering Mitochondrial Antioxidant Capacity on Molecular and Phenotypic Drivers of Fibrocalcific Aortic Valve Stenosis. Frontiers in Cardiovascular Medicine, 2021, 8, 694881.	2.4	2
75	MnSOD protects against vascular calcification independent of changes in vascular function in hypercholesterolemic mice. Atherosclerosis, 2021, 331, 31-37.	0.8	1
76	Abstract 582: Overexpression of Mnsod Reduces Aortic Valve Calcification Through Repression of Pro-osteogenic Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	2.4	1
77	Serotonin produces MAO dependent oxidative stress in human heart valves. FASEB Journal, 2008, 22, 747.6.	0.5	1
78	Mouse Models of Calcific Aortic Valve Disease. , 2014, , 67-80.		1
79	Evidence for timeâ€dependent and adaptive mechanisms in the mitral valve following prolonged Angiotensin II infusion. FASEB Journal, 2015, 29, 764.2.	0.5	1
80	Paradoxical Effects of Overexpressing Human Catalase on Vascular Function and Atherosclerotic Plaque Composition in Hypercholesterolemic Mice. FASEB Journal, 2018, 32, lb303.	0.5	1
81	Abstract 366: Sirtuin 6 Reduces Osteogenic Signaling in Aortic Valve Interstitial Cells and Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, .	2.4	1
82	Evidence of venous suction, but from where?. Journal of Applied Physiology, 2005, 99, 776-776.	2.5	0
83	Use of 3D Robotic Ultrasound for In Vivo Analysis of Mouse Kidneys. Journal of Visualized Experiments, 2021, , .	0.3	0
84	Carotid chemoreceptor modulation of regional blood flow distribution and vascular conductance during exercise. FASEB Journal, 2006, 20, A814.	0.5	0
85	Oxidative stress after intracranial hemorrhage. FASEB Journal, 2007, 21, A396.	0.5	0
86	MnSOD deficiency increases endothelial dysfunction produced by intermittent hypoxia. FASEB Journal, 2008, 22, .	0.5	0
87	MnSOD protects against COX1â€mediated endothelial dysfunction in chronic heart failure. FASEB Journal, 2008, 22, 1237.1.	0.5	0
88	Ankyrinâ€B is a critical determinant of vasomotor function. FASEB Journal, 2010, 24, 976.2.	0.5	0
89	Vascular effects of Nox2â€derived radicals are dependent upon mitochondrial antioxidant capacity in old mice. FASEB Journal, 2011, 25, 1093.7.	0.5	0
90	Novel Mechanisms Contributing to Fibrosis and Matrix Remodeling in Myxomatous Mitral Valve Disease. FASEB Journal, 2011, 25, lb484.	0.5	0

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91	ACE2 Deficiency Augments Cerebrovascular Dysfunction during Aging. FASEB Journal, 2012, 26, lb651.	0.5	0
92	Functional consequences of ROSâ€induced ROS release in vascular endothelium. FASEB Journal, 2012, 26, 1129.11.	0.5	0
93	Over Expression of Dimethylarginine Dimethylaminohydrolaseâ€1 (DDAH1) Slows Progression Fibrocalcific Aortic Valve Stenosis in Hypercholesterolemic Mice. FASEB Journal, 2012, 26, 137.11.	0.5	0
94	Neutralization of TNFÎ± improves endothelial function and reduces vascular calcification in advanced atherosclerosis. FASEB Journal, 2013, 27, 1194.15.	0.5	0
95	Potential novel role of the immune system in the pathogenesis of myxomatous mitral valve disease. FASEB Journal, 2013, 27, 386.11.	0.5	0
96	Effects of exercise on vasomotor function and vascular distensibility in angiotensin IIâ€induced hypertension. FASEB Journal, 2015, 29, 994.25.	0.5	0
97	Overexpression of MnSOD Does Not Improve Endothelial Function in Hypercholesterolemic Mice. FASEB Journal, 2015, 29, 638.1.	0.5	0
98	Abstract 582: Overexpression of Catalase Impairs Aortic Valve Function and Accelerates Valvular Calification in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
99	Abstract 259: Genetic Inactivation of Sirt3 Does Not Alter Endothelial Function or Vascular Compliance in Hypercholesterolemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
100	Organismal Sex is a Major Determinant of Phenotypic and Molecular Changes Caused by Genetic Inactivation of the Mitochondriaâ€specific Deacetylase SIRT3. FASEB Journal, 2018, 32, 618.17.	0.5	0
101	Abstract 186: Effect of Direct Thrombin Inhibition on Vascular Function and Aortic Valve Function in Hypercholesterolemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, .	2.4	0
102	Abstract 184: Sirt3 is a Critical Mediator of Diet-induced Vasomotor Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, .	2.4	0
103	Abstract 270: Reduction of Mitochondrial Antioxidant Levels Augments Osteogenic Signaling Independent of Changes in Vasomotor Function in Aorta from Hypercholesterolemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, .	2.4	0
104	Abstract 237: Role of Runx2 in Vascular Responses to Angiotensin II-Induced Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, .	2.4	0
105	Abstract 18485: Runx2 Haploinsufficiency Attenuates Angiotensin II-mediated Fibrosis and Proliferation in Mouse Mitral Valves. Circulation, 2015, 132, .	1.6	0