

# Anthony J Donato

## List of Publications by Citations

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119  
papers

4,915  
citations

36  
h-index

70  
g-index

128  
ext. papers

5,833  
ext. citations

3.7  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
119	Aging and vascular endothelial function in humans. <i>Clinical Science</i> , <b>2011</b> , 120, 357-75	6.5	405
118	Direct evidence of endothelial oxidative stress with aging in humans: relation to impaired endothelium-dependent dilation and upregulation of nuclear factor-kappaB. <i>Circulation Research</i> , <b>2007</b> , 100, 1659-66	15.7	403
117	Cellular and molecular biology of aging endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 89, 122-35	5.8	270
116	Habitual exercise and arterial aging. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1323-32	3.7	253
115	Mechanisms of Vascular Aging. <i>Circulation Research</i> , <b>2018</b> , 123, 849-867	15.7	237
114	Vascular endothelial dysfunction with aging: endothelin-1 and endothelial nitric oxide synthase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2009</b> , 297, H425-32	5.2	210
113	Aging is associated with greater nuclear NF kappa B, reduced I kappa B alpha, and increased expression of proinflammatory cytokines in vascular endothelial cells of healthy humans. <i>Aging Cell</i> , <b>2008</b> , 7, 805-12	9.9	183
112	Voluntary wheel running restores endothelial function in conduit arteries of old mice: direct evidence for reduced oxidative stress, increased superoxide dismutase activity and down-regulation of NADPH oxidase. <i>Journal of Physiology</i> , <b>2009</b> , 587, 3271-85	3.9	167
111	Overweight and obese humans demonstrate increased vascular endothelial NAD(P)H oxidase-p47(phox) expression and evidence of endothelial oxidative stress. <i>Circulation</i> , <b>2007</b> , 115, 627-37	16.7	166
110	SIRT-1 and vascular endothelial dysfunction with ageing in mice and humans. <i>Journal of Physiology</i> , <b>2011</b> , 589, 4545-54	3.9	163
109	Mechanisms of Dysfunction in the Aging Vasculature and Role in Age-Related Disease. <i>Circulation Research</i> , <b>2018</b> , 123, 825-848	15.7	160
108	Effects of ageing and exercise training on endothelium-dependent vasodilatation and structure of rat skeletal muscle arterioles. <i>Journal of Physiology</i> , <b>2004</b> , 556, 947-58	3.9	159
107	Weight loss alone improves conduit and resistance artery endothelial function in young and older overweight/obese adults. <i>Hypertension</i> , <b>2008</b> , 52, 72-9	8.5	128
106	Short-term calorie restriction reverses vascular endothelial dysfunction in old mice by increasing nitric oxide and reducing oxidative stress. <i>Aging Cell</i> , <b>2010</b> , 9, 304-12	9.9	125
105	The SIRT1 activator SRT1720 reverses vascular endothelial dysfunction, excessive superoxide production, and inflammation with aging in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H1754-63	5.2	119
104	Life-long caloric restriction reduces oxidative stress and preserves nitric oxide bioavailability and function in arteries of old mice. <i>Aging Cell</i> , <b>2013</b> , 12, 772-83	9.9	116
103	Dietary rapamycin supplementation reverses age-related vascular dysfunction and oxidative stress, while modulating nutrient-sensing, cell cycle, and senescence pathways. <i>Aging Cell</i> , <b>2017</b> , 16, 17-26	9.9	93

102	Endothelial cell senescence with aging in healthy humans: prevention by habitual exercise and relation to vascular endothelial function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 313, H890-H895	5.2	91
101	Aerobic exercise reverses arterial inflammation with aging in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 301, H1025-32	5.2	88
100	Basal leg blood flow in healthy women is related to age and hormone replacement therapy status. <i>Journal of Physiology</i> , <b>2003</b> , 547, 309-16	3.9	84
99	Ageing and exercise training alter adrenergic vasomotor responses of rat skeletal muscle arterioles. <i>Journal of Physiology</i> , <b>2007</b> , 579, 115-25	3.9	69
98	Age-related telomere uncapping is associated with cellular senescence and inflammation independent of telomere shortening in human arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 305, H251-8	5.2	65
97	Exercise-induced brachial artery vasodilation: effects of antioxidants and exercise training in elderly men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 298, H671-8	5.2	65
96	B6D2F1 Mice are a suitable model of oxidative stress-mediated impaired endothelium-dependent dilation with aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2009</b> , 64, 9-20	6.4	63
95	Critical Role for Telomerase in the Mechanism of Flow-Mediated Dilation in the Human Microcirculation. <i>Circulation Research</i> , <b>2016</b> , 118, 856-66	15.7	62
94	The effects of aging and exercise training on endothelin-1 vasoconstrictor responses in rat skeletal muscle arterioles. <i>Cardiovascular Research</i> , <b>2005</b> , 66, 393-401	9.9	62
93	Life-long caloric restriction elicits pronounced protection of the aged myocardium: a role for AMPK. <i>Mechanisms of Ageing and Development</i> , <b>2010</b> , 131, 739-42	5.6	59
92	A Focused DNA-Encoded Chemical Library for the Discovery of Inhibitors of NAD-Dependent Enzymes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5169-5181	16.4	51
91	Salicylate treatment improves age-associated vascular endothelial dysfunction: potential role of nuclear factor kappaB and forkhead Box O phosphorylation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2011</b> , 66, 409-18	6.4	49
90	Advanced age results in a diminished endothelial glycocalyx. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 315, H531-H539	5.2	45
89	Role of arterial telomere dysfunction in hypertension: relative contributions of telomere shortening and telomere uncapping. <i>Journal of Hypertension</i> , <b>2014</b> , 32, 1293-9	1.9	45
88	Role of NFkappaB in age-related vascular endothelial dysfunction in humans. <i>Aging</i> , <b>2009</b> , 1, 678-80	5.6	44
87	Dietary Vitamin D and Its Metabolites Non-Genomically Stabilize the Endothelium. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140370	3.7	38
86	The impact of ageing on adipose structure, function and vasculature in the B6D2F1 mouse: evidence of significant multisystem dysfunction. <i>Journal of Physiology</i> , <b>2014</b> , 592, 4083-96	3.9	37
85	TNF- $\alpha$ impairs endothelial function in adipose tissue resistance arteries of mice with diet-induced obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 303, H672-9	5.2	37

84	Sustained activation of AMPK ameliorates age-associated vascular endothelial dysfunction via a nitric oxide-independent mechanism. <i>Mechanisms of Ageing and Development</i> , <b>2012</b> , 133, 368-71	5.6	36
83	Vascular endothelial function is related to white blood cell count and myeloperoxidase among healthy middle-aged and older adults. <i>Hypertension</i> , <b>2010</b> , 55, 363-9	8.5	36
82	Endothelin-A-mediated vasoconstriction during exercise with advancing age. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 554-65	6.4	35
81	Mitochondrial Oxidative Phosphorylation defect in the Heart of Subjects with Coronary Artery Disease. <i>Scientific Reports</i> , <b>2019</b> , 9, 7623	4.9	28
80	The role of senescence, telomere dysfunction and shelterin in vascular aging. <i>Microcirculation</i> , <b>2019</b> , 26, e12487	2.9	28
79	Systemic sclerosis induces pronounced peripheral vascular dysfunction characterized by blunted peripheral vasoreactivity and endothelial dysfunction. <i>Clinical Rheumatology</i> , <b>2015</b> , 34, 905-13	3.9	26
78	Beneficial effects of lifelong caloric restriction on endothelial function are greater in conduit arteries compared to cerebral resistance arteries. <i>Age</i> , <b>2014</b> , 36, 559-69		25
77	Greater impairments in cerebral artery compared with skeletal muscle feed artery endothelial function in a mouse model of increased large artery stiffness. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1931-43	3.9	23
76	Cytochrome P-450 2C9 signaling does not contribute to age-associated vascular endothelial dysfunction in humans. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1359-63	3.7	22
75	Automated Measurement of Microvascular Function Reveals Dysfunction in Systemic Sclerosis: A Cross-sectional Study. <i>Journal of Rheumatology</i> , <b>2017</b> , 44, 1603-1611	4.1	20
74	The role of the endothelial glycocalyx in advanced age and cardiovascular disease. <i>Current Opinion in Pharmacology</i> , <b>2019</b> , 45, 66-71	5.1	19
73	Telomere uncapping and vascular aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 315, H1-H5	5.2	18
72	Dichotomous mechanisms of aortic stiffening in high-fat diet fed young and old B6D2F1 mice. <i>Physiological Reports</i> , <b>2014</b> , 2, e00268	2.6	18
71	Age-related arterial immune cell infiltration in mice is attenuated by caloric restriction or voluntary exercise. <i>Experimental Gerontology</i> , <b>2018</b> , 109, 99-107	4.5	17
70	Smooth muscle specific disruption of the endothelin-A receptor in mice reduces arterial pressure, and vascular reactivity and affects vascular development. <i>Life Sciences</i> , <b>2014</b> , 118, 238-43	6.8	17
69	Exercise training reverses aging-induced impairment of myogenic constriction in skeletal muscle arterioles. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 904-11	3.7	16
68	Experimental reduction of miR-92a mimics arterial aging. <i>Experimental Gerontology</i> , <b>2016</b> , 83, 165-70	4.5	15
67	Cerebrovascular dysfunction following subfailure axial stretch. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 65, 627-633	4.1	9

66	Exercise-induced brachial artery blood flow and vascular function is impaired in systemic sclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 311, H1375-H1381	5.2	9
65	Induced Trf2 deletion leads to aging vascular phenotype in mice associated with arterial telomere uncapping, senescence signaling, and oxidative stress. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2019</b> , 127, 74-82	5.8	9
64	Selected life-extending interventions reduce arterial CXCL10 and macrophage colony-stimulating factor in aged mouse arteries. <i>Cytokine</i> , <b>2017</b> , 96, 102-106	4	7
63	Age-related arterial telomere uncapping and senescence is greater in women compared with men. <i>Experimental Gerontology</i> , <b>2016</b> , 73, 65-71	4.5	7
62	Lifelong SIRT-1 overexpression attenuates large artery stiffening with advancing age. <i>Aging</i> , <b>2020</b> , 12, 11314-11324	5.6	7
61	Ultrasound Assessment of Flow-Mediated Dilation of the Brachial and Superficial Femoral Arteries in Rats. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	6
60	Cerebral and skeletal muscle feed artery vasoconstrictor responses in a mouse model with greater large elastic artery stiffness. <i>Experimental Physiology</i> , <b>2019</b> , 104, 434-442	2.4	6
59	Differential Telomere Shortening in Blood versus Arteries in an Animal Model of Type 2 Diabetes. <i>Journal of Diabetes Research</i> , <b>2015</b> , 2015, 153829	3.9	5
58	Acute oral tetrahydrobiopterin administration ameliorates endothelial dysfunction in systemic sclerosis. <i>Clinical and Experimental Rheumatology</i> , <b>2017</b> , 35 Suppl 106, 167-172	2.2	5
57	Dietary Glycocalyx Precursor Supplementation Ameliorates Age-Related Vascular Dysfunction. <i>FASEB Journal</i> , <b>2019</b> , 33, 828.1	0.9	4
56	T lymphocyte depletion ameliorates age-related metabolic impairments in mice. <i>GeroScience</i> , <b>2021</b> , 43, 1331-1347	8.9	4
55	Age-Associated ALU Element Instability in White Blood Cells Is Linked to Lower Survival in Elderly Adults: A Preliminary Cohort Study. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169628	3.7	3
54	Implications of endothelial shear stress on systemic sclerosis vasculopathy and treatment. <i>Clinical and Experimental Rheumatology</i> , <b>2018</b> , 36 Suppl 113, 175-182	2.2	3
53	Impact of high-fat diet on vasoconstrictor reactivity of white and brown adipose tissue resistance arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2019</b> , 316, H485-H494	5.2	3
52	Attenuated nitric oxide bioavailability in systemic sclerosis: Evidence from the novel assessment of passive leg movement. <i>Experimental Physiology</i> , <b>2018</b> , 103, 1412-1424	2.4	3
51	Deletion of Robo4 prevents high-fat diet-induced adipose artery and systemic metabolic dysfunction. <i>Microcirculation</i> , <b>2019</b> , 26, e12540	2.9	2
50	Dietary rapamycin selectively improves arterial function in old mice. <i>FASEB Journal</i> , <b>2013</b> , 27, 1194.17	0.9	2
49	The pro-atherogenic response to disturbed blood flow is increased by a western diet, but not by old age. <i>Scientific Reports</i> , <b>2019</b> , 9, 2925	4.9	2

48	Age-Related Telomere Uncapping Occurs Independent of Telomere Shortening in Mouse Endothelial Cells. <i>FASEB Journal</i> , <b>2015</b> , 29, 642.1	0.9	1
47	Age-related impairment in endothelium-dependent dilation is related to diminished sirT deacetylase expression and increased eNOS acetylation. <i>FASEB Journal</i> , <b>2010</b> , 24, 1039.2	0.9	1
46	Treatment with the SIRT1 activator SRT1720 reduces large elastic artery stiffness, superoxide production and inflammation in old mice. <i>FASEB Journal</i> , <b>2011</b> , 25, lb485	0.9	1
45	Telomere uncapping causes cellular senescence and inflammation in arteries: implications for arterial aging. <i>FASEB Journal</i> , <b>2013</b> , 27, 1131.1	0.9	1
44	Aging differentially impacts vasodilation and angiogenesis in arteries from the white and brown adipose tissues. <i>Experimental Gerontology</i> , <b>2020</b> , 142, 111126	4.5	1
43	T cells mediate cell non-autonomous arterial ageing in mice. <i>Journal of Physiology</i> , <b>2021</b> , 599, 3973-3991	3.9	1
42	Ageing and vascular adrenoceptor desensitization: too little, too late?. <i>Journal of Physiology</i> , <b>2007</b> , 582, 9-10	3.9	0
41	Aortic stiffening as a result of reduced elastin content leads to cerebral artery dysfunction. <i>FASEB Journal</i> , <b>2013</b> , 27, 1194.3	0.9	0
40	Tetrahydrobiopterin Administration Augments Exercise-Induced Hyperemia and Endothelial Function in Patients With Systemic Sclerosis.. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 791689	4.9	
39	Age-related impaired endothelium-dependent dilation is associated with increased vascular endothelial cell protein expression of NF- $\kappa$ B in humans. <i>FASEB Journal</i> , <b>2006</b> , 20, A721	0.9	
38	MECHANISM OF ANGIOTENSIN II VASOREACTIVITY IN RAT SOLEUS MUSCLE ARTERIOLES: EFFECTS OF AGING AND EXERCISE TRAINING. <i>FASEB Journal</i> , <b>2006</b> , 20, A285	0.9	
37	Reduced Endothelium-Dependent Dilation with Aging in Humans is Associated with Endothelial Oxidative Stress and Enhanced Expression of NADPH Oxidase. <i>FASEB Journal</i> , <b>2007</b> , 21, A1372	0.9	
36	Oxidative stress contributes to the age related decline in basal leg blood flow in sedentary men. <i>FASEB Journal</i> , <b>2007</b> , 21, A1238	0.9	
35	Age-Associated Reductions in Endothelium-Dependent Dilation in Humans are Related to Increases in Vascular Endothelial Protein Expression of Endothelin-1. <i>FASEB Journal</i> , <b>2007</b> , 21, A1237	0.9	
34	Enhanced vascular endothelium-dependent dilation in older men who exercise is associated with markedly lower endothelial oxidative stress. <i>FASEB Journal</i> , <b>2007</b> , 21, A932	0.9	
33	Plasma low-density lipoprotein cholesterol modulates vascular endothelial function as well as systemic and vascular endothelial oxidative stress in middle-aged and older men. <i>FASEB Journal</i> , <b>2007</b> , 21, A445	0.9	
32	Vascular Endothelial Dysfunction with Aging in Healthy Adults is Related to Total White Blood Cell Count and Selective Immune Cell Populations. <i>FASEB Journal</i> , <b>2008</b> , 22, 967.13	0.9	
31	Increased Cytochrome P450 2C9 signaling does not contribute to vascular endothelial dysfunction in healthy older adults. <i>FASEB Journal</i> , <b>2008</b> , 22, 967.1	0.9	

30	Inflammatory Circulating Mononuclear Cell Phenotype in Healthy Older Adults with Low-Grade Systemic Inflammation and Endothelial Dysfunction. <i>FASEB Journal</i> , <b>2008</b> , 22, 1155.4	0.9
29	Weight Loss-Associated Improvements in Vascular Endothelial Function in Overweight/Obese Humans are Related to Reductions in Abdominal Visceral Fat. <i>FASEB Journal</i> , <b>2008</b> , 22, 743.1	0.9
28	Age-Related Vascular Endothelial Dysfunction is Associated with Altered Regulation of Nuclear Factor k B and Increased Pro-Inflammatory Cytokines in Humans. <i>FASEB Journal</i> , <b>2008</b> , 22, 964.12	0.9
27	The Impact of Acute Tetrahydrobiopterin Administration on Plasma Adropin Concentration in Patients with Systemic Sclerosis. <i>FASEB Journal</i> , <b>2018</b> , 32, 902.20	0.9
26	Deletion of miR-92a Results in Glucose Intolerance via Impaired Pancreatic Beta Cell Function. <i>FASEB Journal</i> , <b>2019</b> , 33, 714.2	0.9
25	Aged endothelial cells exhibit a metabolic shift from anaerobic glycolysis to oxidative phosphorylation. <i>FASEB Journal</i> , <b>2019</b> , 33, 693.14	0.9
24	SIRT1 overexpression protects against high fat diet-induced cerebral artery endothelial dysfunction (1070.10). <i>FASEB Journal</i> , <b>2014</b> , 28, 1070.10	0.9
23	Partial Carotid Ligation Impairs Middle Cerebral Artery Endothelial Function in Old Mice. <i>FASEB Journal</i> , <b>2015</b> , 29, 949.1	0.9
22	Endothelial ARF6 deletion impairs insulin-induced dilation of adipose arteries and systemic glucose tolerance. <i>FASEB Journal</i> , <b>2015</b> , 29, 802.1	0.9
21	Inhibition of MiR-92 Mimics Arterial Aging. <i>FASEB Journal</i> , <b>2015</b> , 29, 1047.3	0.9
20	Aging is associated with reduced vasodilation to insulin in subcutaneous adipose arteries in B6D2F1 mice. <i>FASEB Journal</i> , <b>2015</b> , 29, 1044.5	0.9
19	Voluntary aerobic exercise abolishes age-associated arterial stiffening in mice: relation to collagen subtype expression in the medial and adventitial layers. <i>FASEB Journal</i> , <b>2009</b> , 23, 774.13	0.9
18	Reduction in mononuclear cell mRNA expression of pro-inflammatory and pro-oxidant genes with habitual aerobic exercise in older humans. <i>FASEB Journal</i> , <b>2009</b> , 23, 776.8	0.9
17	Aortic microRNA expression is altered with aging in mice. <i>FASEB Journal</i> , <b>2009</b> , 23, 776.1	0.9
16	Sedentary Aging is Associated with a Senescent Endothelial Cell Phenotype that is Ameliorated by Habitual Aerobic Exercise. <i>FASEB Journal</i> , <b>2009</b> , 23, 965.15	0.9
15	Short-term Caloric Restriction Improves Glucose Tolerance in Older Mice Independent of Changes in SIRT-1. <i>FASEB Journal</i> , <b>2009</b> , 23, 990.33	0.9
14	Voluntary wheel running abolishes vascular inflammation and restores endothelial function in old mice. <i>FASEB Journal</i> , <b>2009</b> , 23, 777.6	0.9
13	MicroRNA expression with aging in human aortic endothelial cells. <i>FASEB Journal</i> , <b>2010</b> , 24, 626.7	0.9

12	Short-term AMPK activation improves vascular endothelial function in old mice by a different mechanism than habitual aerobic exercise. <i>FASEB Journal</i> , <b>2010</b> , 24, 619.9	0.9
11	Voluntary running and caloric restriction reverse cerebrovascular endothelial dysfunction in old mice by restoring nitric oxide bioavailability. <i>FASEB Journal</i> , <b>2011</b> , 25, 1108.16	0.9
10	Increased TRF2 binding likely limits telomere uncapping in older human arteries despite age-related telomere attrition. <i>FASEB Journal</i> , <b>2012</b> , 26, 865.10	0.9
9	Whole body C-cbl Associated Protein (CAP) deleted mice display impaired endothelium dependent dilation and nitric oxide bioavailability. <i>FASEB Journal</i> , <b>2012</b> , 26, 1129.12	0.9
8	Blunting of Endothelium Dependent Dilation in Adipose Tissue Arteries by Tumor Necrosis Factor Alpha is Lost after High Fat Feeding. <i>FASEB Journal</i> , <b>2012</b> , 26, 680.17	0.9
7	Evidence of the regulatory potential of human skeletal muscle feed arteries. <i>FASEB Journal</i> , <b>2012</b> , 26, 1138.29	0.9
6	Reduced large elastic artery stiffness in older exercising adults is associated with suppressed nuclear factor kappa B signaling. <i>FASEB Journal</i> , <b>2012</b> , 26, 1138.10	0.9
5	SIRT1 Activation with SRT1720 Reverses Impaired Endothelium-Dependent Dilation in Old Mice by Augmenting COX-2 Mediated Vasodilation. <i>FASEB Journal</i> , <b>2012</b> , 26, lb661	0.9
4	Smaller cerebrovascular arteries have a greater age-related endothelial dysfunction and a blunted response to life-long caloric restriction. <i>FASEB Journal</i> , <b>2012</b> , 26, 685.31	0.9
3	Endothelium-dependent dilation is inversely related to hematocrit among healthy young and older adults. <i>FASEB Journal</i> , <b>2012</b> , 26, 865.13	0.9
2	Morphological Changes Underlying High Fat Diet-Associated Arterial Stiffening Differ with Advancing Age. <i>FASEB Journal</i> , <b>2013</b> , 27, 1194.16	0.9
1	Sirt1 overexpression attenuates Western-style diet-induced aortic stiffening in mice.. <i>Physiological Reports</i> , <b>2022</b> , 10, e15284	2.6