

Lisa A Lesniewski

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,704
citations

159358

30
h-index

138251

58
g-index

89
all docs

89
docs citations

89
times ranked

5147
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular and molecular biology of aging endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 89, 122-135.	0.9	367
2	Mechanisms of Dysfunction in the Aging Vasculature and Role in Age-Related Disease. <i>Circulation Research</i> , 2018, 123, 825-848.	2.0	344
3	Nuclear Factor- κ B Activation Contributes to Vascular Endothelial Dysfunction via Oxidative Stress in Overweight/Obese Middle-Aged and Older Humans. <i>Circulation</i> , 2009, 119, 1284-1292.	1.6	220
4	SIRT6 and vascular endothelial dysfunction with ageing in mice and humans. <i>Journal of Physiology</i> , 2011, 589, 4545-4554.	1.3	211
5	Voluntary wheel running restores endothelial function in conduit arteries of old mice: direct evidence for reduced oxidative stress, increased superoxide dismutase activity and downregulation of NADPH oxidase. <i>Journal of Physiology</i> , 2009, 587, 3271-3285.	1.3	196
6	Arterial stiffening with ageing is associated with transforming growth factor- β 1-related changes in adventitial collagen: reversal by aerobic exercise. <i>Journal of Physiology</i> , 2010, 588, 3971-3982.	1.3	169
7	Strategy for Identifying Repurposed Drugs for the Treatment of Cerebral Cavernous Malformation. <i>Circulation</i> , 2015, 131, 289-299.	1.6	149
8	Life-long caloric restriction reduces oxidative stress and preserves nitric oxide bioavailability and function in arteries of old mice. <i>Aging Cell</i> , 2013, 12, 772-783.	3.0	146
9	Habitual exercise and vascular ageing. <i>Journal of Physiology</i> , 2009, 587, 5541-5549.	1.3	137
10	Short-term calorie restriction reverses vascular endothelial dysfunction in old mice by increasing nitric oxide and reducing oxidative stress. <i>Aging Cell</i> , 2010, 9, 304-312.	3.0	131
11	Dietary rapamycin supplementation reverses age-related vascular dysfunction and oxidative stress, while modulating nutrient sensing, cell cycle, and senescence pathways. <i>Aging Cell</i> , 2017, 16, 17-26.	3.0	123
12	Bone marrow-specific Cap gene deletion protects against high-fat diet-induced insulin resistance. <i>Nature Medicine</i> , 2007, 13, 455-462.	15.2	110
13	Effects of aging on vasoconstrictor and mechanical properties of rat skeletal muscle arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H1843-H1854.	1.5	106
14	Aerobic exercise reverses arterial inflammation with aging in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1025-H1032.	1.5	103
15	Ageing and exercise training alter adrenergic vasomotor responses of rat skeletal muscle arterioles. <i>Journal of Physiology</i> , 2007, 579, 115-125.	1.3	75
16	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> , 2009, 64A, 9-20.	1.7	71
17	The effects of aging and exercise training on endothelin-1 vasoconstrictor responses in rat skeletal muscle arterioles. <i>Cardiovascular Research</i> , 2005, 66, 393-401.	1.8	69
18	Life-long caloric restriction elicits pronounced protection of the aged myocardium: A role for AMPK. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 739-742.	2.2	67

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19	Dietary Vitamin D and Its Metabolites Non-Genomically Stabilize the Endothelium. <i>PLoS ONE</i> , 2015, 10, e0140370.	1.1	63
20	Salicylate Treatment Improves Age-Associated Vascular Endothelial Dysfunction: Potential Role of Nuclear Factor κ B and Forkhead Box O Phosphorylation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 409-418.	1.7	59
21	Role of NF κ B in age-related vascular endothelial dysfunction in humans. <i>Aging</i> , 2009, 1, 678-680.	1.4	59
22	Decreased NO signaling leads to enhanced vasoconstrictor responsiveness in skeletal muscle arterioles of the ZDF rat prior to overt diabetes and hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H1840-H1850.	1.5	57
23	The impact of ageing on adipose structure, function and vasculature in the B6D2F1 mouse: evidence of significant multisystem dysfunction. <i>Journal of Physiology</i> , 2014, 592, 4083-4096.	1.3	54
24	Sustained activation of AMPK ameliorates age-associated vascular endothelial dysfunction via a nitric oxide-independent mechanism. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 368-371.	2.2	51
25	TNF α impairs endothelial function in adipose tissue resistance arteries of mice with diet-induced obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H672-H679.	1.5	46
26	Ageing compounds western diet-associated large artery endothelial dysfunction in mice: Prevention by voluntary aerobic exercise. <i>Experimental Gerontology</i> , 2013, 48, 1218-1225.	1.2	42
27	Mechanisms of force loss in diabetic mouse skeletal muscle. <i>Muscle and Nerve</i> , 2003, 28, 493-500.	1.0	41
28	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> , 2015, 593, 1931-1943.	1.3	38
29	Small GTPase ARF6 controls VEGFR2 trafficking and signaling in diabetic retinopathy. <i>Journal of Clinical Investigation</i> , 2017, 127, 4569-4582.	3.9	37
30	Influence of ageing and physical activity on vascular morphology in rat skeletal muscle. <i>Journal of Physiology</i> , 2006, 575, 617-626.	1.3	36
31	Lifelong SIRT-1 overexpression attenuates large artery stiffening with advancing age. <i>Aging</i> , 2020, 12, 11314-11324.	1.4	27
32	Age-related arterial immune cell infiltration in mice is attenuated by caloric restriction or voluntary exercise. <i>Experimental Gerontology</i> , 2018, 109, 99-107.	1.2	26
33	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> , 2019, 127, 74-82.	0.9	24
34	Experimental reduction of miR-92a mimics arterial aging. <i>Experimental Gerontology</i> , 2016, 83, 165-170.	1.2	23
35	P2Y2 Receptor Promotes High-Fat Diet-Induced Obesity. <i>Frontiers in Endocrinology</i> , 2020, 11, 341.	1.5	23
36	Dichotomous mechanisms of aortic stiffening in high-fat diet fed young and old B6D2F1 mice. <i>Physiological Reports</i> , 2014, 2, e00268.	0.7	21

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37	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> , 2014, 118, 238-243.	2.0	20
38	Effects of aging, TNF- α , and exercise training on angiotensin II-induced vasoconstriction of rat skeletal muscle arterioles. <i>Journal of Applied Physiology</i> , 2012, 113, 1091-1100.	1.2	19
39	Differential effects of aging and exercise on intra-abdominal adipose arteriolar function and blood flow regulation. <i>Journal of Applied Physiology</i> , 2013, 114, 808-815.	1.2	15
40	T lymphocyte depletion ameliorates age-related metabolic impairments in mice. <i>GeroScience</i> , 2021, 43, 1331-1347.	2.1	15
41	Cerebral and skeletal muscle feed artery vasoconstrictor responses in a mouse model with greater large elastic artery stiffness. <i>Experimental Physiology</i> , 2019, 104, 434-442.	0.9	13
42	Human skeletal muscle feed arteries: evidence of regulatory potential. <i>Acta Physiologica</i> , 2012, 206, 135-141.	1.8	12
43	Age-related arterial telomere uncapping and senescence is greater in women compared with men. <i>Experimental Gerontology</i> , 2016, 73, 65-71.	1.2	12
44	Aging differentially impacts vasodilation and angiogenesis in arteries from the white and brown adipose tissues. <i>Experimental Gerontology</i> , 2020, 142, 111126.	1.2	12
45	Selected life-extending interventions reduce arterial CXCL10 and macrophage colony-stimulating factor in aged mouse arteries. <i>Cytokine</i> , 2017, 96, 102-106.	1.4	9
46	Reversing age-associated arterial dysfunction: insight from preclinical models. <i>Journal of Applied Physiology</i> , 2018, 125, 1860-1870.	1.2	9
47	The pro-atherogenic response to disturbed blood flow is increased by a western diet, but not by old age. <i>Scientific Reports</i> , 2019, 9, 2925.	1.6	9
48	T cells mediate cell non-autonomous arterial ageing in mice. <i>Journal of Physiology</i> , 2021, 599, 3973-3991.	1.3	9
49	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> , 2019, 316, H485-H494.	1.5	8
50	Dietary Glycocalyx Precursor Supplementation Ameliorates Age-Related Vascular Dysfunction. <i>FASEB Journal</i> , 2019, 33, 828.1.	0.2	7
51	Deletion of Robo4 prevents high-fat diet-induced adipose artery and systemic metabolic dysfunction. <i>Microcirculation</i> , 2019, 26, e12540.	1.0	4
52	Chronic aerobic exercise: targeting two birds with one stone. <i>Journal of Physiology</i> , 2021, 599, 1015-1016.	1.3	2
53	Dietary rapamycin selectively improves arterial function in old mice. <i>FASEB Journal</i> , 2013, 27, 1194.17.	0.2	2
54	Telomere uncapping causes cellular senescence and inflammation in arteries: implications for arterial aging. <i>FASEB Journal</i> , 2013, 27, 1131.1.	0.2	2

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55	Senolytic Drugs, Dasatinib and Quercetin, Attenuate Adipose Tissue T Lymphocyte Infiltration and Improve Metabolic Function in Old Mice. <i>FASEB Journal</i> , 2021, 35, .	0.2	1
56	Aortic stiffening as a result of reduced elastin content leads to cerebral artery dysfunction. <i>FASEB Journal</i> , 2013, 27, 1194.3.	0.2	1
57	Age-Related Telomere Uncapping Occurs Independent of Telomere Shortening in Mouse Endothelial Cells. <i>FASEB Journal</i> , 2015, 29, 642.1.	0.2	1
58	Sirt1 overexpression attenuates Western-style diet-induced aortic stiffening in mice. <i>Physiological Reports</i> , 2022, 10, e15284.	0.7	1
59	Ageing results in endothelial cell telomere uncapping that induces senescence, arterial stiffening, and reduced nitric oxide bioavailability. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
60	Telomere uncapping as a possible mechanism for chemotherapy-induced vascular toxicity. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
61	Novel Method to Observe Endothelial Cell Telomere Dynamics in Regions Exposed to Lifelong Disturbed Flow in Murine Aorta. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
62	Multicolor fluorescence biosensors reveal a burning need for diversity in the single-cell metabolic landscape. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 537-539.	3.1	0
63	Nuclear factor κ B-associated inflammation mediates impaired vascular endothelial function in non-diabetic middle-aged and older overweight/obese men. <i>FASEB Journal</i> , 2008, 22, 743.2.	0.2	0
64	Ageing is Associated with Increased Susceptibility to Western Diet-Induced Glucose Intolerance and Endothelial Dysfunction in Mice. <i>FASEB Journal</i> , 2008, 22, 1226.7.	0.2	0
65	Chronic aerobic exercise opposes age- and high fat diet-associated vascular endothelial dysfunction: relation to $\text{IKK}\beta$ and AMPK. <i>FASEB Journal</i> , 2009, 23, 777.7.	0.2	0
66	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> , 2009, 23, 774.13.	0.2	0
67	Absence of Inhibitor of Nuclear Factor κ B Kinase-Mediated Suppression of Vascular Endothelial Function in Middle-Aged/Older Adults Who Exercise. <i>FASEB Journal</i> , 2009, 23, LB61.	0.2	0
68	Ageing increases susceptibility to western diet-induced glucose intolerance and insulin resistance in mice. <i>FASEB Journal</i> , 2009, 23, 990.18.	0.2	0
69	Short-term AMPK activation improves vascular endothelial function in old mice by a different mechanism than habitual aerobic exercise. <i>FASEB Journal</i> , 2010, 24, 619.9.	0.2	0
70	Life-long caloric restriction confers pronounced AMPK-dependent cardioprotection. <i>FASEB Journal</i> , 2010, 24, .	0.2	0
71	Habitual aerobic exercise reverses age-associated increases in transforming growth factor beta 1 in carotid arteries of mice. <i>FASEB Journal</i> , 2010, 24, 790.6.	0.2	0
72	Voluntary running and caloric restriction reverse cerebrovascular endothelial dysfunction in old mice by restoring nitric oxide bioavailability. <i>FASEB Journal</i> , 2011, 25, 1108.16.	0.2	0

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73	Increased TRF2 binding likely limits telomere uncapping in older human arteries despite age-related telomere attrition. <i>FASEB Journal</i> , 2012, 26, 865.10.	0.2	0
74	Whole body Cbl Associated Protein (CAP) deleted mice display impaired endothelium dependent dilation and nitric oxide bioavailability. <i>FASEB Journal</i> , 2012, 26, 1129.12.	0.2	0
75	Blunting of Endothelium Dependent Dilation in Adipose Tissue Arteries by Tumor Necrosis Factor Alpha is Lost after High Fat Feeding. <i>FASEB Journal</i> , 2012, 26, 680.17.	0.2	0
76	Evidence of the regulatory potential of human skeletal muscle feed arteries. <i>FASEB Journal</i> , 2012, 26, 1138.29.	0.2	0
77	Smaller cerebrovascular arteries have a greater age-related endothelial dysfunction and a blunted response to life-long caloric restriction. <i>FASEB Journal</i> , 2012, 26, 685.31.	0.2	0
78	Morphological Changes Underlying High Fat Diet-Associated Arterial Stiffening Differ with Advancing Age. <i>FASEB Journal</i> , 2013, 27, 1194.16.	0.2	0
79	Differential effects of aging and exercise training on intra-abdominal adipose arteriolar function and blood flow regulation. <i>FASEB Journal</i> , 2013, 27, 898.6.	0.2	0
80	SIRT1 overexpression protects against high fat diet-induced cerebral artery endothelial dysfunction (1070.10). <i>FASEB Journal</i> , 2014, 28, 1070.10.	0.2	0
81	Partial Carotid Ligation Impairs Middle Cerebral Artery Endothelial Function in Old Mice. <i>FASEB Journal</i> , 2015, 29, 949.1.	0.2	0
82	Endothelial ARF6 deletion impairs insulin-induced dilation of adipose arteries and systemic glucose tolerance. <i>FASEB Journal</i> , 2015, 29, 802.1.	0.2	0
83	Inhibition of MiR-92 Mimics Arterial Aging. <i>FASEB Journal</i> , 2015, 29, 1047.3.	0.2	0
84	Aging is associated with reduced vasodilation to insulin in subcutaneous adipose arteries in B6D2F1 mice. <i>FASEB Journal</i> , 2015, 29, 1044.5.	0.2	0
85	Deletion of miR-92a Results in Glucose Intolerance via Impaired Pancreatic Beta Cell Function. <i>FASEB Journal</i> , 2019, 33, 714.2.	0.2	0
86	Aged endothelial cells exhibit a metabolic shift from anaerobic glycolysis to oxidative phosphorylation. <i>FASEB Journal</i> , 2019, 33, 693.14.	0.2	0
87	Genetic deletion of the DNA damage repair protein, ATM kinase, is not sufficient to induce vascular dysfunction in young mice. <i>FASEB Journal</i> , 2019, 33, .	0.2	0
88	Ablation of Endothelial mTOR is Benign in Young Mice and Reverses Age-Related Arterial and Metabolic Impairments in Old Mice. <i>FASEB Journal</i> , 2022, 36, .	0.2	0