Zoltan I Ungvari

List of Publications by Year
in descending order

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289 papers	22,216 citations	5876 81 h-index	10708 138 g-index
290 all docs	290 docs citations	290 times ranked	21017 citing authors

#	Article	IF	Citations
1	Resveratrol Delays Age-Related Deterioration and Mimics Transcriptional Aspects of Dietary Restriction without Extending Life Span. Cell Metabolism, 2008, 8, 157-168.	7.2	1,060
2	Mechanisms of Vascular Aging. Circulation Research, 2018, 123, 849-867.	2.0	512
3	Aging-Induced Phenotypic Changes and Oxidative Stress Impair Coronary Arteriolar Function. Circulation Research, 2002, 90, 1159-1166.	2.0	511
4	Resveratrol confers endothelial protection via activation of the antioxidant transcription factor Nrf2. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H18-H24.	1.5	457
5	Mechanisms of Vascular Aging: New Perspectives. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 1028-1041.	1.7	429
6	Inflammation and endothelial dysfunction during aging: role of NF-Î¹B. Journal of Applied Physiology, 2008, 105, 1333-1341.	1.2	388
7	Resveratrol induces mitochondrial biogenesis in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H13-H20.	1.5	378
8	Mitochondria and Cardiovascular Aging. Circulation Research, 2012, 110, 1109-1124.	2.0	345
9	Functional vascular contributions to cognitive impairment and dementia: mechanisms and consequences of cerebral autoregulatory dysfunction, endothelial impairment, and neurovascular uncoupling in aging. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1-H20.	1.5	345
10	Are sirtuins viable targets for improving healthspan and lifespan?. Nature Reviews Drug Discovery, 2012, 11, 443-461.	21.5	339
11	Impaired neurovascular coupling in aging and Alzheimer's disease: Contribution of astrocyte dysfunction and endothelial impairment to cognitive decline. Experimental Gerontology, 2017, 94, 52-58.	1.2	302
12	Resveratrol attenuates mitochondrial oxidative stress in coronary arterial endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1876-H1881.	1.5	300
13	Increased mitochondrial H2O2 production promotes endothelial NF-Î¹B activation in aged rat arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H37-H47.	1.5	288
14	Potent Metalloporphyrin Peroxynitrite Decomposition Catalyst Protects Against the Development of Doxorubicin-Induced Cardiac Dysfunction. Circulation, 2003, 107, 896-904.	1.6	263
15	Endothelial dysfunction and angiogenesis impairment in the ageing vasculature. Nature Reviews Cardiology, 2018, 15, 555-565.	6.1	256
16	Agingâ€induced proinflammatory shift in cytokine expression profile in rat coronary arteries. FASEB Journal, 2003, 17, 1183-1185.	0.2	254
17	Obesity in Aging Exacerbates Blood-Brain Barrier Disruption, Neuroinflammation, and Oxidative Stress in the Mouse Hippocampus: Effects on Expression of Genes Involved in Beta-Amyloid Generation and Alzheimer's Disease. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1212-1226.	1.7	250
18	Increased Superoxide Production in Coronary Arteries in Hyperhomocysteinemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 418-424.	1.1	249

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19	SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70.	1.6	249
20	Resveratrol attenuates TNF-Î±-induced activation of coronary arterial endothelial cells: role of NF-ÎºB inhibition. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1694-H1699.	1.5	248
21	Vasoprotective effects of resveratrol and SIRT1: attenuation of cigarette smoke-induced oxidative stress and proinflammatory phenotypic alterations. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2721-H2735.	1.5	246
22	Vascular oxidative stress in aging: a homeostatic failure due to dysregulation of NRF2-mediated antioxidant response. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H363-H372.	1.5	229
23	CB₂-receptor stimulation attenuates TNF-Î±-induced human endothelial cell activation, transendothelial migration of monocytes, and monocyte-endothelial adhesion. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2210-H2218.	1.5	223
24	Anti-oxidative and anti-inflammatory vasoprotective effects of caloric restriction in aging: Role of circulating factors and SIRT1. Mechanisms of Ageing and Development, 2009, 130, 518-527.	2.2	221
25	Mechanisms Underlying Caloric Restriction and Lifespan Regulation. Circulation Research, 2008, 102, 519-528.	2.0	219
26	Regulation of Bone Morphogenetic Protein-2 Expression in Endothelial Cells. Circulation, 2005, 111, 2364-2372.	1.6	210
27	Nrf2 mediates cancer protection but not prolongevity induced by caloric restriction. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2325-2330.	3.3	207
28	Resveratrol increases vascular oxidative stress resistance. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2417-H2424.	1.5	204
29	Resveratrol Improves Endothelial Function. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1164-1171.	1.1	195
30	High Pressure Induces Superoxide Production in Isolated Arteries Via Protein Kinase Câ€“Dependent Activation of NAD(P)H Oxidase. Circulation, 2003, 108, 1253-1258.	1.6	194
31	Age-Associated Vascular Oxidative Stress, Nrf2 Dysfunction, and NF-ÂB Activation in the Nonhuman Primate Macaca mulatta. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 866-875.	1.7	194
32	Cigarette smoke-induced proinflammatory alterations in the endothelial phenotype: role of NAD(P)H oxidase activation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H130-H139.	1.5	192
33	Hypertension-induced cognitive impairment: from pathophysiology to public health. Nature Reviews Nephrology, 2021, 17, 639-654.	4.1	192
34	Proinflammatory phenotype of coronary arteries promotes endothelial apoptosis in aging. Physiological Genomics, 2004, 17, 21-30.	1.0	188
35	Vasculoprotective Effects of Anti-Tumor Necrosis Factor-Î± Treatment in Aging. American Journal of Pathology, 2007, 170, 388-398.	1.9	188
36	Role of Oxidative-Nitrosative Stress and Downstream Pathways in Various Forms of Cardiomyopathy and Heart Failure. Current Vascular Pharmacology, 2005, 3, 221-229.	0.8	187

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37	Resveratrol Prevents High Fat/Sucrose Diet-Induced Central Arterial Wall Inflammation and Stiffening in Nonhuman Primates. Cell Metabolism, 2014, 20, 183-190.	7.2	186
38	Resveratrol Prevents Monocrotaline-Induced Pulmonary Hypertension in Rats. Hypertension, 2009, 54, 668-675.	1.3	184
39	Age-Related Autoregulatory Dysfunction and Cerebromicrovascular Injury in Mice with Angiotensin II-induced Hypertension. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1732-1742.	2.4	183
40	Nicotinamide mononucleotide (NMN) supplementation rescues cerebromicrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. Redox Biology, 2019, 24, 101192.	3.9	181
41	Dysregulation of mitochondrial biogenesis in vascular endothelial and smooth muscle cells of aged rats. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2121-H2128.	1.5	160
42	Resveratrol treatment rescues neurovascular coupling in aged mice: role of improved cerebromicrovascular endothelial function and downregulation of NADPH oxidase. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H299-H308.	1.5	158
43	Oxidative stress and accelerated vascular aging: implications for cigarette smoking. Frontiers in Bioscience - Landmark, 2009, Volume, 3128.	3.0	148
44	Role of mitochondrial oxidative stress in hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1417-H1427.	1.5	147
45	Aging Exacerbates Obesity-induced Cerebromicrovascular Rarefaction, Neurovascular Uncoupling, and Cognitive Decline in Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1339-1352.	1.7	146
46	Bone Morphogenetic Protein-2 Induces Proinflammatory Endothelial Phenotype. American Journal of Pathology, 2006, 168, 629-638.	1.9	143
47	Liver-Specific Knockdown of IGF-1 Decreases Vascular Oxidative Stress Resistance by Impairing the Nrf2-Dependent Antioxidant Response: A Novel Model of Vascular Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 313-329.	1.7	140
48	Endothelial function and vascular oxidative stress in long-lived GH/IGF-deficient Ames dwarf mice. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H1882-H1894.	1.5	139
49	Adaptive induction of NF-E2-related factor-2-driven antioxidant genes in endothelial cells in response to hyperglycemia. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1133-H1140.	1.5	138
50	Mechanisms of Vascular Aging, A Geroscience Perspective. Journal of the American College of Cardiology, 2020, 75, 931-941.	1.2	137
51	Age-Associated Proinflammatory Secretory Phenotype in Vascular Smooth Muscle Cells From the Non-human Primate Macaca mulatta: Reversal by Resveratrol Treatment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 811-820.	1.7	134
52	Vascular Dysfunction in Aging: Potential Effects of Resveratrol, an Anti- Inflammatory Phytoestrogen. Current Medicinal Chemistry, 2006, 13, 989-996.	1.2	132
53	Caloric restriction confers persistent anti-oxidative, pro-angiogenic, and anti-inflammatory effects and promotes anti-aging miRNA expression profile in cerebromicrovascular endothelial cells of aged rats. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H292-H306.	1.5	128
54	Treatment with the mitochondrialâ€targeted antioxidant peptide <scp>SS</scp>â€31 rescues neurovascular coupling responses and cerebrovascular endothelial function and improves cognition in aged mice. Aging Cell, 2018, 17, e12731.	3.0	128

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55	Dysfunction of Nitric Oxide Mediation in Isolated Rat Arterioles With Methionine Dietâ€“Induced Hyperhomocysteinemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 1899-1904.	1.1	127
56	The Emerging Role of IGF-1 Deficiency in Cardiovascular Aging: Recent Advances. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 599-610.	1.7	125
57	Disruption of Nrf2 Signaling Impairs Angiogenic Capacity of Endothelial Cells: Implications for Microvascular Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 821-829.	1.7	122
58	Aging-Induced Dysregulation of Dicer1-Dependent MicroRNA Expression Impairs Angiogenic Capacity of Rat Cerebromicrovascular Endothelial Cells. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 877-891.	1.7	122
59	<scp>IGF</scp>â€1 deficiency impairs neurovascular coupling in mice: implications for cerebromicrovascular aging. Aging Cell, 2015, 14, 1034-1044.	3.0	121
60	Chronic High Pressure-Induced Arterial Oxidative Stress. American Journal of Pathology, 2004, 165, 219-226.	1.9	119
61	Aging exacerbates hypertensionâ€induced cerebral microhemorrhages in mice: role of resveratrol treatment in vasoprotection. Aging Cell, 2015, 14, 400-408.	3.0	116
62	Ionizing Radiation Promotes the Acquisition of a Senescence-Associated Secretory Phenotype and Impairs Angiogenic Capacity in Cerebromicrovascular Endothelial Cells: Role of Increased DNA Damage and Decreased DNA Repair Capacity in Microvascular Radiosensitivity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 1443-1457.	1.7	114
63	Nrf2 deficiency in aged mice exacerbates cellular senescence promoting cerebrovascular inflammation. GeroScience, 2018, 40, 513-521.	2.1	114
64	Aging Exacerbates Obesity-Induced Oxidative Stress and Inflammation in Perivascular Adipose Tissue in Mice: A Paracrine Mechanism Contributing to Vascular Redox Dysregulation and Inflammation. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 780-792.	1.7	113
65	IGF-1 has sexually dimorphic, pleiotropic, and time-dependent effects on healthspan, pathology, and lifespan. GeroScience, 2017, 39, 129-145.	2.1	111
66	Nrf2 Deficiency Exacerbates Obesity-Induced Oxidative Stress, Neurovascular Dysfunction, Bloodâ€“Brain Barrier Disruption, Neuroinflammation, Amyloidogenic Gene Expression, and Cognitive Decline in Mice, Mimicking the Aging Phenotype. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 853-863.	1.7	111
67	Resveratrol improves left ventricular diastolic relaxation in type 2 diabetes by inhibiting oxidative/nitrative stress: in vivo demonstration with magnetic resonance imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H985-H994.	1.5	106
68	Vascular superoxide and hydrogen peroxide production and oxidative stress resistance in two closely related rodent species with disparate longevity. Aging Cell, 2007, 6, 783-797.	3.0	105
69	Pharmacologically-Induced Neurovascular Uncoupling is Associated with Cognitive Impairment in Mice. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1871-1881.	2.4	105
70	Role of Oxidative and Nitrosative Stress, Longevity Genes and Poly(ADPribose) Polymerase in Cardiovascular Dysfunction Associated with Aging. Current Vascular Pharmacology, 2005, 3, 285-291.	0.8	104
71	Cerebral microhemorrhages: mechanisms, consequences, and prevention. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1128-H1143.	1.5	104
72	Vascular aging in the longest-living rodent, the naked mole rat. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H919-H927.	1.5	103

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73	Single-cell RNA sequencing identifies senescent cerebromicrovascular endothelial cells in the aged mouse brain. GeroScience, 2020, 42, 429-444.	2.1	102
74	Decreased age-related cardiac dysfunction, myocardial nitrative stress, inflammatory gene expression, and apoptosis in mice lacking fatty acid amide hydrolase. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H909-H918.	1.5	99
75	Mitochondrial Protection by Resveratrol. Exercise and Sport Sciences Reviews, 2011, 39, 128-132.	1.6	99
76	Insulin-like growth factor-1 in CNS and cerebrovascular aging. Frontiers in Aging Neuroscience, 2013, 5, 27.	1.7	98
77	Nicotinamide mononucleotide (NMN) treatment attenuates oxidative stress and rescues angiogenic capacity in aged cerebromicrovascular endothelial cells: a potential mechanism for the prevention of vascular cognitive impairment. GeroScience, 2019, 41, 619-630.	2.1	97
78	Comparison of endothelial function, O2â˙Â· and H2O2 production, and vascular oxidative stress resistance between the longest-living rodent, the naked mole rat, and mice. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2698-H2704.	1.5	90
79	IGF-1 Deficiency Impairs Cerebral Myogenic Autoregulation in Hypertensive Mice. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1887-1897.	2.4	90
80	The Krebs Cycle and Mitochondrial Mass Are Early Victims of Endothelial Dysfunction. American Journal of Pathology, 2009, 174, 34-43.	1.9	89
81	Extreme Longevity Is Associated With Increased Resistance to Oxidative Stress in Arctica islandica, the Longest-Living Non-Colonial Animal. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 741-750.	1.7	89
82	Inhibition of mTOR protects the blood-brain barrier in models of Alzheimerâ€™s disease and vascular cognitive impairment. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H693-H703.	1.5	89
83	Resveratrol Inhibits Aggregation of Platelets from High-risk Cardiac Patients with Aspirin Resistance. Journal of Cardiovascular Pharmacology, 2006, 48, 1-5.	0.8	88
84	Traumatic brain injury-induced autoregulatory dysfunction and spreading depression-related neurovascular uncoupling: Pathomechanisms, perspectives, and therapeutic implications. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1118-H1131.	1.5	85
85	Nicotinamide mononucleotide (NMN) supplementation promotes neurovascular rejuvenation in aged mice: transcriptional footprint of SIRT1 activation, mitochondrial protection, anti-inflammatory, and anti-apoptotic effects. GeroScience, 2020, 42, 527-546.	2.1	85
86	Treatment with the poly(ADP-ribose) polymerase inhibitor PJ-34 improves cerebromicrovascular endothelial function, neurovascular coupling responses and cognitive performance in aged mice, supporting the NAD+ depletion hypothesis of neurovascular aging. GeroScience, 2019, 41, 533-542.	2.1	84
87	Role of 20-HETE, TRPC channels, and BK_{Ca} in dysregulation of pressure-induced Ca²⁺ signaling and myogenic constriction of cerebral arteries in aged hypertensive mice. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1698-H1708.	1.5	83
88	Mitochondria and aging in the vascular system. Journal of Molecular Medicine, 2010, 88, 1021-1027.	1.7	82
89	Cerebral Microvascular Accumulation of Tau Oligomers in Alzheimerâ€™s Disease and Related Tauopathies. , 2017, 8, 257.		82
90	Nrf2 dysfunction and impaired cellular resilience to oxidative stressors in the aged vasculature: from increased cellular senescence to the pathogenesis of age-related vascular diseases. GeroScience, 2019, 41, 727-738.	2.1	80

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91	Cerebromicrovascular dysfunction predicts cognitive decline and gait abnormalities in a mouse model of whole brain irradiation-induced accelerated brain senescence. GeroScience, 2017, 39, 33-42.	2.1	78
92	Insulin-like growth factor 1 deficiency exacerbates hypertension-induced cerebral microhemorrhages in mice, mimicking the aging phenotype. Aging Cell, 2017, 16, 469-479.	3.0	78
93	Hypertension impairs neurovascular coupling and promotes microvascular injury: role in exacerbation of Alzheimerâ€™s disease. GeroScience, 2017, 39, 359-372.	2.1	78
94	Oxidative stress in vascular senescence: lessons from successfully aging species. Frontiers in Bioscience - Landmark, 2008, Volume, 5056.	3.0	77
95	Whole Brain Radiation-Induced Vascular Cognitive Impairment: Mechanisms and Implications. Journal of Vascular Research, 2013, 50, 445-457.	0.6	75
96	Nicotinamide mononucleotide (NMN) supplementation promotes anti-aging miRNA expression profile in the aorta of aged mice, predicting epigenetic rejuvenation and anti-atherogenic effects. GeroScience, 2019, 41, 419-439.	2.1	75
97	Endothelial dysfunction is a potential contributor to multiple organ failure and mortality in aged mice subjected to septic shock: preclinical studies in a murine model of cecal ligation and puncture. Critical Care, 2014, 18, 511.	2.5	74
98	Purinergic glio-endothelial coupling during neuronal activity: role of P2Y₁ receptors and eNOS in functional hyperemia in the mouse somatosensory cortex. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1837-H1845.	1.5	74
99	Diverse Roles of Growth Hormone and Insulin-Like Growth Factor-1 in Mammalian Aging: Progress and Controversies. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 587-598.	1.7	72
100	Obesity in Aging Exacerbates Neuroinflammation, Dysregulating Synaptic Function-Related Genes and Altering Eicosanoid Synthesis in the Mouse Hippocampus: Potential Role in Impaired Synaptic Plasticity and Cognitive Decline. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 290-298.	1.7	72
101	Circulating IGF-1 deficiency exacerbates hypertension-induced microvascular rarefaction in the mouse hippocampus and retrosplenial cortex: implications for cerebromicrovascular and brain aging. Age, 2016, 38, 273-289.	3.0	70
102	Demonstration of impaired neurovascular coupling responses in TG2576 mouse model of Alzheimerâ€™s disease using functional laser speckle contrast imaging. GeroScience, 2017, 39, 465-473.	2.1	70
103	Vascular Inflammation in Aging. Herz, 2004, 29, 733-740.	0.4	68
104	Role of endothelial NAD⁺deficiency in age-related vascular dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1253-H1266.	1.5	68
105	Nrf2 deficiency exacerbates age-related contractile dysfunction and loss of skeletal muscle mass. Redox Biology, 2018, 17, 47-58.	3.9	67
106	The GH/IGF-1 axis in a critical period early in life determines cellular DNA repair capacity by altering transcriptional regulation of DNA repair-related genes: implications for the developmental origins of cancer. GeroScience, 2017, 39, 147-160.	2.1	65
107	Different roles of PKC and MAP kinases in arteriolar constrictions to pressure and agonists. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2282-H2287.	1.5	64
108	Differential proinflammatory and prooxidant effects of bone morphogenetic protein-4 in coronary and pulmonary arterial endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H569-H577.	1.5	64

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109	Pharmacological Strategies to Retard Cardiovascular Aging. Circulation Research, 2016, 118, 1626-1642.	2.0	64
110	Retinal biomarkers for Alzheimerâ€™s disease and vascular cognitive impairment and dementia (VCID): implication for early diagnosis and prognosis. GeroScience, 2020, 42, 1499-1525.	2.1	64
111	Hypertension-induced synapse loss and impairment in synaptic plasticity in the mouse hippocampus mimics the aging phenotype: implications for the pathogenesis of vascular cognitive impairment. GeroScience, 2017, 39, 385-406.	2.1	63
112	Assessment of age-related decline of neurovascular coupling responses by functional near-infrared spectroscopy (fNIRS) in humans. GeroScience, 2019, 41, 495-509.	2.1	63
113	Age-related decline in peripheral vascular health predicts cognitive impairment. GeroScience, 2019, 41, 125-136.	2.1	62
114	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiationâ€“induced impairment of neurovascular coupling responses protecting cognitive function in mice. GeroScience, 2020, 42, 409-428.	2.1	62
115	Xanthine Oxidaseâ€“Derived Reactive Oxygen Species Convert Flow-Induced Arteriolar Dilation to Constriction in Hyperhomocysteinemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 28-33.	1.1	61
116	Gender and racial differences in endothelial oxidative stress and inflammation in patients with symptomatic peripheral artery disease. Journal of Vascular Surgery, 2015, 61, 1249-1257.	0.6	61
117	Increases in endothelial Ca²⁺activate K_{Ca}channels and elicit EDHF-type arteriolar dilation via gap junctions. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1760-H1767.	1.5	59
118	Growth Hormone and IGF-1 Deficiency Exacerbate High-Fat Diet-Induced Endothelial Impairment in Obese Lewis Dwarf Rats: Implications for Vascular Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 553-564.	1.7	59
119	Synergistic effects of hypertension and aging on cognitive function and hippocampal expression of genes involved in Î²-amyloid generation and Alzheimer's disease. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1120-H1130.	1.5	59
120	Aging Exacerbates Pressure-Induced Mitochondrial Oxidative Stress in Mouse Cerebral Arteries: Figure 1.. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1355-1359.	1.7	59
121	Central IGF-1 protects against features of cognitive and sensorimotor decline with aging in male mice. GeroScience, 2019, 41, 185-208.	2.1	59
122	Impaired Nitric Oxide-Mediated Flow-Induced Coronary Dilation in Hyperhomocysteinemia. American Journal of Pathology, 2002, 161, 145-153.	1.9	58
123	Endothelin and Prostaglandin H ₂ /Thromboxane A ₂ Enhance Myogenic Constriction in Hypertension by Increasing Ca ²⁺ Sensitivity of Arteriolar Smooth Muscle. Hypertension, 2000, 36, 856-861.	1.3	57
124	Mechanosensitive Production of Reactive Oxygen Species in Endothelial and Smooth Muscle Cells: Role in Microvascular Remodeling?. Antioxidants and Redox Signaling, 2006, 8, 1121-1129.	2.5	57
125	Resveratrol Encapsulated in Novel Fusogenic Liposomes Activates Nrf2 and Attenuates Oxidative Stress in Cerebromicrovascular Endothelial Cells From Aged Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 303-313.	1.7	56
126	Role of age-related alterations of the cerebral venous circulation in the pathogenesis of vascular cognitive impairment. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1124-H1140.	1.5	56

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127	Treatment with the cytochrome <scp>P450</scp> Ï‰â€hydroxylase inhibitor <scp>HET0016</scp> attenuates cerebrovascular inflammation, oxidative stress and improves vasomotor function in spontaneously hypertensive rats. British Journal of Pharmacology, 2013, 168, 1878-1888.	2.7	54
128	Aging Impairs Myogenic Adaptation to Pulsatile Pressure in Mouse Cerebral Arteries. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 527-530.	2.4	54
129	Simultaneously Increased TxA ₂ Activity in Isolated Arterioles and Platelets of Rats With Hyperhomocysteinemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1203-1208.	1.1	53
130	Hemodynamic Forces, Vascular Oxidative Stress, and Regulation of BMP-2/4 Expression. Antioxidants and Redox Signaling, 2009, 11, 1683-1697.	2.5	53
131	Age-related impairment of neurovascular coupling responses: a dynamic vessel analysis (DVA)-based approach to measure decreased flicker light stimulus-induced retinal arteriolar dilation in healthy older adults. GeroScience, 2019, 41, 341-349.	2.1	53
132	Role of endothelial [Ca2+]i in activation of eNOS in pressurized arterioles by agonists and wall shear stress. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H606-H612.	1.5	51
133	Testing the Oxidative Stress Hypothesis of Aging in Primate Fibroblasts: Is There a Correlation Between Species Longevity and Cellular ROS Production?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 841-852.	1.7	51
134	Circulating Factors Induced by Caloric Restriction in the Nonhuman Primate Macaca Mulatta Activate Angiogenic Processes in Endothelial Cells. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 235-249.	1.7	51
135	Obesity-induced cognitive impairment in older adults: a microvascular perspective. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H740-H761.	1.5	51
136	Longevity is associated with increased vascular resistance to high glucose-induced oxidative stress and inflammatory gene expression in Peromyscus leucopus. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H946-H956.	1.5	50
137	Overexpression of catalase targeted to mitochondria improves neurovascular coupling responses in aged mice. GeroScience, 2019, 41, 609-617.	2.1	50
138	Microvascular contributions to age-related macular degeneration (AMD): from mechanisms of choriocapillaris aging to novel interventions. GeroScience, 2019, 41, 813-845.	2.1	49
139	Testing hypotheses of aging in long-lived mice of the genus Peromyscus: association between longevity and mitochondrial stress resistance, ROS detoxification pathways, and DNA repair efficiency. Age, 2008, 30, 121-133.	3.0	47
140	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice. GeroScience, 2019, 41, 575-589.	2.1	47
141	Connective tissue growth factor (CTGF) in age-related vascular pathologies. GeroScience, 2017, 39, 491-498.	2.1	46
142	Pharmacologically induced impairment of neurovascular coupling responses alters gait coordination in mice. GeroScience, 2017, 39, 601-614.	2.1	45
143	Fusogenic liposomes effectively deliver resveratrol to the cerebral microcirculation and improve endothelium-dependent neurovascular coupling responses in aged mice. GeroScience, 2019, 41, 711-725.	2.1	45
144	Regulation of proliferation and gene expression in cultured human aortic smooth muscle cells by resveratrol and standardized grape extracts. Biochemical and Biophysical Research Communications, 2006, 346, 367-376.	1.0	44

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146	Vasoprotective Effects of Life Span-Extending Peripubertal GH Replacement in Lewis Dwarf Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 1145-1156.	1.7	43
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