

# Priya Balasubramanian

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,776  
citations

257450

24  
h-index

330143

37  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aging and Caloric Restriction Research: A Biological Perspective With Translational Potential. EBioMedicine, 2017, 21, 37-44.	6.1	115
2	Nrf2 deficiency in aged mice exacerbates cellular senescence promoting cerebrovascular inflammation. GeroScience, 2018, 40, 513-521.	4.6	114
3	Single-cell RNA sequencing identifies senescent cerebrovascular endothelial cells in the aged mouse brain. GeroScience, 2020, 42, 429-444.	4.6	102
4	Nicotinamide mononucleotide (NMN) treatment attenuates oxidative stress and rescues angiogenic capacity in aged cerebrovascular endothelial cells: a potential mechanism for the prevention of vascular cognitive impairment. GeroScience, 2019, 41, 619-630.	4.6	97
5	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.	4.6	85
6	Treatment with the poly(ADP-ribose) polymerase inhibitor PJ-34 improves cerebrovascular endothelial function, neurovascular coupling responses and cognitive performance in aged mice, supporting the NAD <sup>+</sup> depletion hypothesis of neurovascular aging. GeroScience, 2019, 41, 533-542.	4.6	84
7	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.	4.6	80
8	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.	4.6	75
9	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.	3.6	72
10	Role of endothelial NAD <sup>+</sup> deficiency in age-related vascular dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1253-H1266.	3.2	68
11	Assessment of age-related decline of neurovascular coupling responses by functional near-infrared spectroscopy (fNIRS) in humans. GeroScience, 2019, 41, 495-509.	4.6	63
12	Sympathetic nervous system as a target for aging and obesity-related cardiovascular diseases. GeroScience, 2019, 41, 13-24.	4.6	63
13	Age-related decline in peripheral vascular health predicts cognitive impairment. GeroScience, 2019, 41, 125-136.	4.6	62
14	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiation-induced impairment of neurovascular coupling responses protecting cognitive function in mice. GeroScience, 2020, 42, 409-428.	4.6	62
15	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.	3.2	56
16	Obesity-induced cognitive impairment in older adults: a microvascular perspective. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H740-H761.	3.2	51
17	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice. GeroScience, 2019, 41, 575-589.	4.6	47
18	Fusogenic liposomes effectively deliver resveratrol to the cerebral microcirculation and improve endothelium-dependent neurovascular coupling responses in aged mice. GeroScience, 2019, 41, 711-725.	4.6	45

#	ARTICLE	IF	CITATIONS
19	Time-restricted feeding (TRF) for prevention of age-related vascular cognitive impairment and dementia. <i>Ageing Research Reviews</i> , 2020, 64, 101189.	10.9	41
20	Treatment with the BCL-2/BCL-xL inhibitor senolytic drug ABT263/Navitoclax improves functional hyperemia in aged mice. <i>GeroScience</i> , 2021, 43, 2427-2440.	4.6	40
21	Short-term weight loss reverses obesity-induced microvascular endothelial dysfunction. <i>GeroScience</i> , 2018, 40, 337-346.	4.6	39
22	Circulating anti-geronic factors from heterochronic parabionts promote vascular rejuvenation in aged mice: transcriptional footprint of mitochondrial protection, attenuation of oxidative stress, and rescue of endothelial function by young blood. <i>GeroScience</i> , 2020, 42, 727-748.	4.6	39
23	IGF1R signaling regulates astrocyte-mediated neurovascular coupling in mice: implications for brain aging. <i>GeroScience</i> , 2021, 43, 901-911.	4.6	35
24	Endothelial deficiency of insulin-like growth factor-1 receptor (IGF1R) impairs neurovascular coupling responses in mice, mimicking aspects of the brain aging phenotype. <i>GeroScience</i> , 2021, 43, 2387-2394.	4.6	31
25	Astrocyte senescence contributes to cognitive decline. <i>GeroScience</i> , 2020, 42, 51-55.	4.6	28
26	Demonstration of age-related blood-brain barrier disruption and cerebrovascular rarefaction in mice by longitudinal intravital two-photon microscopy and optical coherence tomography. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1370-H1392.	3.2	28
27	Spatial transcriptomic analysis reveals inflammatory foci defined by senescent cells in the white matter, hippocampi and cortical grey matter in the aged mouse brain. <i>GeroScience</i> , 2022, 44, 661-681.	4.6	25
28	Sleep deprivation impairs cognitive performance, alters task-associated cerebral blood flow and decreases cortical neurovascular coupling-related hemodynamic responses. <i>Scientific Reports</i> , 2021, 11, 20994.	3.3	22
29	Obesity as a premature aging phenotype – implications for sarcopenic obesity. <i>GeroScience</i> , 2022, 44, 1393-1405.	4.6	22
30	Adiponectin receptor agonist AdipoRon improves skeletal muscle function in aged mice. <i>ELife</i> , 2022, 11, .	6.0	18
31	Chemically induced carcinogenesis in rodent models of aging: assessing organismal resilience to genotoxic stressors in geroscience research. <i>GeroScience</i> , 2019, 41, 209-227.	4.6	16
32	Old blood from heterochronic parabionts accelerates vascular aging in young mice: transcriptomic signature of pathologic smooth muscle remodeling. <i>GeroScience</i> , 2022, 44, 953-981.	4.6	15
33	Microvascular dysfunction and neurovascular uncoupling are exacerbated in peripheral artery disease, increasing the risk of cognitive decline in older adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H924-H935.	3.2	12
34	Non-invasive vagus nerve stimulation attenuates proinflammatory cytokines and augments antioxidant levels in the brainstem and forebrain regions of Dahl salt sensitive rats. <i>Scientific Reports</i> , 2020, 10, 17576.	3.3	10
35	Endothelial Dysfunction and Impaired Neurovascular Coupling Responses Precede Cognitive Impairment in a Mouse Model of Geriatric Sepsis. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 644733.	3.4	5
36	Neuroendocrine Regulation of Adaptive Mechanisms in Livestock. , 2012, , 263-298.		5

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37	Cellular Senescence in the Rostral Ventrolateral Medulla (RVLM) â€œ Novel Implications for Obesityâ€Induced Sympathoexcitation. FASEB Journal, 2019, 33, 563.3.	0.5	2
38	Demonstration Of Age-Related Increase In Blood-Brain Barrier Permeability By Longitudinal Intravital Microscopy. Innovation in Aging, 2021, 5, 663-663.	0.1	1
39	Lysyl oxidases as driving forces behind age-related macrovascular rigidity. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H37-H38.	3.2	0
40	Demonstration of Ageâ€Related Increases in Bloodâ€Brain Barrier Permeability and Microvascular Rarefaction in the Mouse Cerebral Cortex by Longitudinal Intravital Twoâ€Photon Microscopy and Optical Coherence Tomography (OCT). FASEB Journal, 2021, 35, .	0.5	0
41	Chemotherapyâ€Induced Vascular Cognitive Impairment: Role of Endothelial Senescence. FASEB Journal, 2021, 35, .	0.5	0
42	Senescenceâ€Associated Secretary Phenotype (SASP) factors downâ€regulate glutamate transporter expression in human brainstem astrocytes through a paracrine fashion. FASEB Journal, 2021, 35, .	0.5	0
43	Interaction of obesity and Nrf2 deficiency exacerbates vascular aging: potential role of endothelial senescence. FASEB Journal, 2019, 33, 518.9.	0.5	0
44	Cellular Senescence in the Brainstem: Implications for Ageâ€Related Sympathetic Nervous System Dysregulation. FASEB Journal, 2019, 33, 561.5.	0.5	0
45	Endotheliumâ€specific disruption of IGFâ€1 signaling impairs blood flow regulation in mice. FASEB Journal, 2019, 33, 684.13.	0.5	0
46	Nrf2 deficiency in aged mice exacerbates cellular senescence promoting cerebrovascular inflammation. FASEB Journal, 2019, 33, 518.8.	0.5	0
47	Treatment of aged mice with the mitochondria targeted antioxidative peptide SSâ€1 protects against hypertensionâ€induced cerebral microhemorrhages. FASEB Journal, 2019, 33, 518.6.	0.5	0
48	Cerebral venous congestion promotes bloodâ€brain barrier disruption and neuroinflammation, impairing cognitive function in mice.. FASEB Journal, 2020, 34, 1-1.	0.5	0
49	Nicotinamide mononucleotide (NMN) supplementation promotes antiâ€aging miRNA expression profile in the aorta of aged mice, predicting epigenetic rejuvenation and antiâ€atherogenic effects.. FASEB Journal, 2020, 34, 1-1.	0.5	0
50	Ageâ€related Changes in Systemic Circulation Promote Vascular Maladaptation and Impair Vascular Reactivity in Retinal and Brain Circulation in Older Adults. FASEB Journal, 2020, 34, 1-1.	0.5	0
51	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiationâ€induced impairment of neurovascular coupling responses protecting cognitive function in mice. FASEB Journal, 2020, 34, 1-1.	0.5	0
52	Ageâ€Related Sympathetic Dysregulation is Associated with Glial Senescence in the Brainstem. FASEB Journal, 2020, 34, 1-1.	0.5	0
53	Treatment with the poly(ADPâ€ribose) polymerase inhibitor PJâ€34 improves cerebromicrovascular endothelial function, neurovascular coupling responses and cognitive performance in aged mice, supporting the NAD <sup>+</sup> depletion hypothesis of neurovascular aging.. FASEB Journal, 2020, 34, 1-1.	0.5	0
54	Dysfunctional Nrf2â€Keap1 redox signaling in the RVLM is linked to obesityâ€induced sympathoexcitation. FASEB Journal, 2022, 36, .	0.5	0