

# Adám Nyál-Tá<sup>3</sup>th

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,767  
citations

236925

25  
h-index

302126

39  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2277  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneity of the blood-brain barrier. <i>Tissue Barriers</i> , 2016, 4, e1143544.	3.2	163
2	Single-cell RNA sequencing identifies senescent cerebrovascular endothelial cells in the aged mouse brain. <i>GeroScience</i> , 2020, 42, 429-444.	4.6	102
3	Nicotinamide mononucleotide (NMN) supplementation promotes neurovascular rejuvenation in aged mice: transcriptional footprint of SIRT1 activation, mitochondrial protection, anti-inflammatory, and anti-apoptotic effects. <i>GeroScience</i> , 2020, 42, 527-546.	4.6	85
4	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+ depletion hypothesis of neurovascular aging. <i>GeroScience</i> , 2019, 41, 533-542.	4.6	84
5	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. <i>GeroScience</i> , 2019, 41, 727-738.	4.6	80
6	Nicotinamide mononucleotide (NMN) supplementation promotes anti-aging miRNA expression profile in the aorta of aged mice, predicting epigenetic rejuvenation and anti-atherogenic effects. <i>GeroScience</i> , 2019, 41, 419-439.	4.6	75
7	Regulation of NOD-like receptors and inflammasome activation in cerebral endothelial cells. <i>Journal of Neurochemistry</i> , 2015, 135, 551-564.	3.9	71
8	PEGylation of Reduced Graphene Oxide Induces Toxicity in Cells of the Blood-Brain Barrier: An <i>in Vitro</i> and <i>in Vivo</i> Study. <i>Molecular Pharmaceutics</i> , 2016, 13, 3913-3924.	4.6	71
9	Assessment of age-related decline of neurovascular coupling responses by functional near-infrared spectroscopy (fNIRS) in humans. <i>GeroScience</i> , 2019, 41, 495-509.	4.6	63
10	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiation-induced impairment of neurovascular coupling responses protecting cognitive function in mice. <i>GeroScience</i> , 2020, 42, 409-428.	4.6	62
11	Expression of pattern recognition receptors and activation of the non-canonical inflammasome pathway in brain pericytes. <i>Brain, Behavior, and Immunity</i> , 2017, 64, 220-231.	4.1	51
12	Obesity-induced cognitive impairment in older adults: a microvascular perspective. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H740-H761.	3.2	51
13	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice. <i>GeroScience</i> , 2019, 41, 575-589.	4.6	47
14	Fusogenic liposomes effectively deliver resveratrol to the cerebral microcirculation and improve endothelium-dependent neurovascular coupling responses in aged mice. <i>GeroScience</i> , 2019, 41, 711-725.	4.6	45
15	Neurovascular Inflammaging in Health and Disease. <i>Cells</i> , 2020, 9, 1614.	4.1	44
16	Role of pattern recognition receptors of the neurovascular unit in inflamm-aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H1000-H1012.	3.2	43
17	Differences in the molecular structure of the blood-brain barrier in the cerebral cortex and white matter: an <i>in silico</i> , <i>in vitro</i> , and <i>ex vivo</i> study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1702-H1714.	3.2	41
18	Paracellular and transcellular migration of metastatic cells through the cerebral endothelium. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 2619-2631.	3.6	41

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19	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
20	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
21	Transmigration characteristics of breast cancer and melanoma cells through the brain endothelium: Role of Rac and PI3K. <i>Cell Adhesion and Migration</i> , 2016, 10, 269-281.	2.7	35
22	IGF1R signaling regulates astrocyte-mediated neurovascular coupling in mice: implications for brain aging. <i>GeroScience</i> , 2021, 43, 901-911.	4.6	35
23	Increases in hypertension-induced cerebral microhemorrhages exacerbate gait dysfunction in a mouse model of Alzheimer's disease. <i>GeroScience</i> , 2020, 42, 1685-1698.	4.6	33
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	CB2 Receptor Activation Inhibits Melanoma Cell Transmigration through the Blood-Brain Barrier. <i>International Journal of Molecular Sciences</i> , 2014, 15, 8063-8074.	4.1	29
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	Pharmaceutical Targeting of the Brain. <i>Current Pharmaceutical Design</i> , 2016, 22, 5442-5462.	1.9	28
28	Pericyte-secreted IGF2 promotes breast cancer brain metastasis formation. <i>Molecular Oncology</i> , 2020, 14, 2040-2057.	4.6	27
29	Age-related alterations in the cerebrovasculature affect neurovascular coupling and BOLD fMRI responses: Insights from animal models of aging. <i>Psychophysiology</i> , 2021, 58, e13718.	2.4	25
30	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
31	Response of the neurovascular unit to brain metastatic breast cancer cells. <i>Acta Neuropathologica Communications</i> , 2019, 7, 133.	5.2	24
32	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
33	Malignant astrocyte swelling and impaired glutamate clearance drive the expansion of injurious spreading depolarization foci. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 584-599.	4.3	21
34	Role of Rho/ROCK signaling in the interaction of melanoma cells with the blood-brain barrier. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 113-123.	3.3	20
35	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
36	Early manifestation of gait alterations in the Tg2576 mouse model of Alzheimer's disease. <i>GeroScience</i> , 2021, 43, 1947-1957.	4.6	13

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37	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
38	Increased Susceptibility to Cerebral Microhemorrhages Is Associated With Imaging Signs of Microvascular Degeneration in the Retina in an Insulin-Like Growth Factor 1 Deficient Mouse Model of Accelerated Aging. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 788296.	3.4	11
39	Cerebral venous congestion exacerbates cerebral microhemorrhages in mice. <i>GeroScience</i> , 2022, 44, 805-816.	4.6	10
40	Cerebral Pericytes and Endothelial Cells Communicate through Inflammasome-Dependent Signals. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6122.	4.1	7
41	Upregulation of Nucleotide-Binding Oligomerization Domain-, LRR- and Pyrin Domain-Containing Protein 3 in Motoneurons Following Peripheral Nerve Injury in Mice. <i>Frontiers in Pharmacology</i> , 2020, 11, 584184.	3.5	6
42	Integrative Role of Hyperbaric Oxygen Therapy on Healthspan, Age-Related Vascular Cognitive Impairment, and Dementia. <i>Frontiers in Aging</i> , 2021, 2, .	2.6	6
43	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
44	Nicotinamide mononucleotide (NMN) supplementation promotes anti-aging miRNA expression profile in the aorta of aged mice, predicting epigenetic rejuvenation and anti-atherogenic effects.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
45	Age-related Changes in Systemic Circulation Promote Vascular Maladaptation and Impair Vascular Reactivity in Retinal and Brain Circulation in Older Adults. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
46	Pharmacological or genetic depletion of senescent astrocytes prevents whole brain irradiation-induced impairment of neurovascular coupling responses protecting cognitive function in mice. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
47	Fusogenic liposomes effectively deliver resveratrol to the cerebral microcirculation and improve endothelium-dependent neurovascular coupling responses in aged mice.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
48	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.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0