ZoltÃ¡n BenyÃ³

List of Publications by Year
in descending order

84 papers	2,522 citations	331259 21 h-index	214527 47 g-index
88 all docs	88 docs citations	88 times ranked	3601 citing authors

#	Article	IF	Citations
1	Overview of Tissue Engineering Patent Strategies and Patents from 2010 to 2020, Including Outcomes. Tissue Engineering - Part B: Reviews, 2022, 28, 626-632.	2.5	5
2	Old blood from heterochronic parabionts accelerates vascular aging in young mice: transcriptomic signature of pathologic smooth muscle remodeling. GeroScience, 2022, 44, 953-981.	2.1	15
3	Microglia modulate blood flow, neurovascular coupling, and hypoperfusion via purinergic actions. Journal of Experimental Medicine, 2022, 219, .	4.2	94
4	Prometastatic Effect of ATX Derived from Alveolar Type II Pneumocytes and B16-F10 Melanoma Cells. Cancers, 2022, 14, 1586.	1.7	6
5	Dysregulation of lysophospholipid signaling by p53 in malignant cells and the tumor microenvironment. Cellular Signalling, 2021, 78, 109850.	1.7	6
6	Anti-cancer strategies targeting the autotaxin-lysophosphatidic acid receptor axis: is there a path forward?. Cancer and Metastasis Reviews, 2021, 40, 3-5.	2.7	9
7	Modulated Electro-Hyperthermia Facilitates NK-Cell Infiltration and Growth Arrest of Human A2058 Melanoma in a Xenograft Model. Frontiers in Oncology, 2021, 11, 590764.	1.3	10
8	Angiotensin II-Induced Cardiac Effects Are Modulated by Endocannabinoid-Mediated CB1 Receptor Activation. Cells, 2021, 10, 724.	1.8	9
9	IGF1R signaling regulates astrocyte-mediated neurovascular coupling in mice: implications for brain aging. GeroScience, 2021, 43, 901-911.	2.1	35
10	Isoprostanes evoke contraction of the murine and human detrusor muscle via activation of the thromboxane prostanoid TP receptor and Rho kinase. American Journal of Physiology - Renal Physiology, 2021, 320, F537-F547.	1.3	6
11	Modulated Electro-Hyperthermia Induces a Prominent Local Stress Response and Growth Inhibition in Mouse Breast Cancer Isografts. Cancers, 2021, 13, 1744.	1.7	13
12	Vitamin D Deficiency Reduces Vascular Reactivity of Coronary Arterioles in Male Rats. Current Issues in Molecular Biology, 2021, 43, 79-92.	1.0	5
13	Influence of Vitamin D on the Vasoactive Effect of Estradiol in a Rat Model of Polycystic Ovary Syndrome. International Journal of Molecular Sciences, 2021, 22, 9404.	1.8	3
14	Treatment with the BCL-2/BCL-xL inhibitor senolytic drug ABT263/Navitoclax improves functional hyperemia in aged mice. GeroScience, 2021, 43, 2427-2440.	2.1	40
15	Endothelial deficiency of insulin-like growth factor-1 receptor (IGF1R) impairs neurovascular coupling responses in mice, mimicking aspects of the brain aging phenotype. GeroScience, 2021, 43, 2387-2394.	2.1	31
16	Involvement of P2Y₁₂ receptors in a nitroglycerinâ€induced model of migraine in male mice. British Journal of Pharmacology, 2021, 178, 4626-4645.	2.7	11
17	Signaling Pathways Mediating Bradykinin-Induced Contraction in Murine and Human Detrusor Muscle. Frontiers in Medicine, 2021, 8, 745638.	1.2	5
18	Modulated Electro-Hyperthermia Resolves Radioresistance of Panc1 Pancreas Adenocarcinoma and Promotes DNA Damage and Apoptosis In Vitro. International Journal of Molecular Sciences, 2020, 21, 5100.	1.8	12

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19	Opposing Roles of S1P3 Receptors in Myocardial Function. Cells, 2020, 9, 1770.	1.8	4
20	Vitamin D Deficiency Induces Elevated Oxidative and Biomechanical Damage in Coronary Arterioles in Male Rats. Antioxidants, 2020, 9, 997.	2.2	8
21	Exhaustion of Protective Heat Shock Response Induces Significant Tumor Damage by Apoptosis after Modulated Electro-Hyperthermia Treatment of Triple Negative Breast Cancer Isografts in Mice. Cancers, 2020, 12, 2581.	1.7	27
22	Ablation of Vitamin D Signaling Compromises Cerebrovascular Adaptation to Carotid Artery Occlusion in Mice. Cells, 2020, 9, 1457.	1.8	11
23	Suppression of Metastatic Melanoma Growth in Lung by Modulated Electro-Hyperthermia Monitored by a Minimally Invasive Heat Stress Testing Approach in Mice. Cancers, 2020, 12, 3872.	1.7	8
24	Vitamin D Receptor Deficiency Impairs Pial Collateral Circulation in Mice. FASEB Journal, 2020, 34, 1-1.	0.2	0
25	Signal transduction pathways of detrusor smooth muscle contraction evoked by prostanoids and isoprostanes in murine urinary bladder. FASEB Journal, 2020, 34, 1-1.	0.2	0
26	Roles of Nitric Oxide and Prostanoid Mediators in the Adaptation of the Cerebrocortical Blood Flow to Carotid Artery Occlusion. FASEB Journal, 2020, 34, 1-1.	0.2	0
27	Nicotinic acid suppresses sebaceous lipogenesis of human sebocytes via activating hydroxycarboxylic acid receptor 2 (HCA₂). Journal of Cellular and Molecular Medicine, 2019, 23, 6203-6214.	1.6	20
28	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
29	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
30	Stress-Induced, p53-Mediated Tumor Growth Inhibition of Melanoma by Modulated Electrohyperthermia in Mouse Models without Major Immunogenic Effects. International Journal of Molecular Sciences, 2019, 20, 4019.	1.8	16
31	NK2 receptor-mediated detrusor muscle contraction involves Gq/11-dependent activation of voltage-dependent Ca2+channels and the RhoA-Rho kinase pathway. American Journal of Physiology - Renal Physiology, 2019, 317, F1154-F1163.	1.3	6
32	Gender, hyperandrogenism and vitamin D deficiency related functional and morphological alterations of rat cerebral arteries. PLoS ONE, 2019, 14, e0216951.	1.1	17
33	Sphingosine-1-Phosphate Enhances Î±1-Adrenergic Vasoconstriction via S1P2â€“G12/13â€“ROCK Mediated Signaling. International Journal of Molecular Sciences, 2019, 20, 6361.	1.8	6
34	Geometric, elastic and contractile-relaxation changes in coronary arterioles induced by Vitamin D deficiency in normal and hyperandrogenic female rats. Microvascular Research, 2019, 122, 78-84.	1.1	8
35	Vitamin D deficiency and androgen excess result eutrophic remodeling and reduced myogenic adaptation in small cerebral arterioles in female rats. Gynecological Endocrinology, 2019, 35, 529-534.	0.7	7
36	Insulin resistance in an animal model of polycystic ovary disease is aggravated by vitamin D deficiency: Vascular consequences. Diabetes and Vascular Disease Research, 2018, 15, 294-301.	0.9	24

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37	Modulated electro-hyperthermia induced loco-regional and systemic tumor destruction in colorectal cancer allografts. Journal of Cancer, 2018, 9, 41-53.	1.2	51
38	Vitamin D deficiency causes inward hypertrophic remodeling and alters vascular reactivity of rat cerebral arterioles. PLoS ONE, 2018, 13, e0192480.	1.1	19
39	LPA ₁ receptorâ€“mediated thromboxane A ₂ release is responsible for lysophosphatidic acidâ€induced vascular smooth muscle contraction. FASEB Journal, 2017, 31, 1547-1555.	0.2	20
40	CB1 receptor-mediated respiratory depression by endocannabinoids. Respiratory Physiology and Neurobiology, 2017, 240, 48-52.	0.7	10
41	Evaluation of Laser Speckle Contrast Imaging for the Assessment of Oral Mucosal Blood Flow following Periodontal Plastic Surgery: An Exploratory Study. BioMed Research International, 2017, 2017, 1-11.	0.9	29
42	Endocannabinoids in cerebrovascular regulation. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H785-H801.	1.5	70
43	Adaptation of the cerebrocortical circulation to carotid artery occlusion involves blood flow redistribution between cortical regions and is independent of eNOS. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H972-H980.	1.5	16
44	Endocannabinoid-mediated modulation of Gq/11 protein-coupled receptor signaling-induced vasoconstriction and hypertension. Molecular and Cellular Endocrinology, 2015, 403, 46-56.	1.6	31
45	Lysophosphatidic acid induces vasodilation mediated by LPA ₁ receptors, phospholipase C, and endothelial nitric oxide synthase. FASEB Journal, 2014, 28, 880-890.	0.2	20
46	Effects of vitamin D3 derivative â€“ calcitriol on pharmacological reactivity of aortic rings in a rodent PCOS model. Pharmacological Reports, 2013, 65, 476-483.	1.5	13
47	Endothelial relaxation mechanisms and nitrative stress are partly restored by Vitamin D3 therapy in a rat model of polycystic ovary syndrome. Life Sciences, 2013, 93, 133-138.	2.0	13
48	Altered insulin-induced relaxation of aortic rings in a dihydrotestosterone-induced rodent model of polycystic ovary syndrome. Fertility and Sterility, 2013, 99, 573-578.	0.5	9
49	Activation of the miR-17 Family and miR-21 During Murine Kidney Ischemia-Reperfusion Injury. Nucleic Acid Therapeutics, 2013, 23, 344-354.	2.0	52
50	Role of Endocannabinoids and Cannabinoid-1 Receptors in Cerebrocortical Blood Flow Regulation. PLoS ONE, 2013, 8, e53390.	1.1	25
51	Reduced Estradiol-Induced Vasodilation and Poly-(ADP-Ribose) Polymerase (PARP) Activity in the Aortas of Rats with Experimental Polycystic Ovary Syndrome (PCOS). PLoS ONE, 2013, 8, e55589.	1.1	19
52	Model based analysis of cerebrovascular oscillation using the system Circle of Willis. , 2012, , .		0
53	Perivascular Expression and Potent Vasoconstrictor Effect of Dynorphin A in Cerebral Arteries. PLoS ONE, 2012, 7, e37798.	1.1	8
54	Urothelial cells produce hydrogen peroxide through the activation of Duox1. Free Radical Biology and Medicine, 2010, 49, 2040-2048.	1.3	78

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55	Hypersensitivity to Thromboxane Receptor Mediated Cerebral Vasomotion and CBF Oscillations during Acute NO-Deficiency in Rats. PLoS ONE, 2010, 5, e14477.	1.1	13
56	Elevated systemic TGF-Î2 impairs aortic vasomotor function through activation of NADPH oxidase-driven superoxide production and leads to hypertension, myocardial remodeling, and increased plaque formation in apoEâ^'/â^' mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H386-H395.	1.5	51
57	Additive effect of cyclooxygenase and nitric oxide synthase blockade on the cerebrocortical microcirculation. NeuroReport, 2009, 20, 1027-1031.	0.6	5
58	G12-G13â€"LARGâ€"mediated signaling in vascular smooth muscle is required for salt-induced hypertension. Nature Medicine, 2008, 14, 64-68.	15.2	584
59	Carbon monoxideâ€"prostaglandin E2 interaction in the hypothalamic circulation. NeuroReport, 2008, 19, 1601-1604.	0.6	6
60	Influence of the heme-oxygenase pathway on cerebrocortical blood flow. NeuroReport, 2007, 18, 1193-1197.	0.6	5
61	Adaptation of the hypothalamic blood flow to chronic nitric oxide deficiency is independent of vasodilator prostanoids. Brain Research, 2007, 1131, 129-137.	1.1	18
62	Nicotinic Acid-Induced Flushing Is Mediated by Activation of Epidermal Langerhans Cells. Molecular Pharmacology, 2006, 70, 1844-1849.	1.0	194
63	CHARACTERIZATION OF CEREBRAL BLOOD FLOW OSCILLATIONS USING DIFFERENT CLASSIFICATION METHODS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 214-219.	0.4	2
64	GPR109A (PUMA-G/HM74A) mediates nicotinic acidâ€"induced flushing. Journal of Clinical Investigation, 2005, 115, 3634-3640.	3.9	297
65	Endothelial NOS-Mediated Relaxations of Isolated Thoracic Aorta of the C57BL/6J Mouse. Journal of Cardiovascular Pharmacology, 2005, 45, 225-231.	0.8	22
66	Interactions between the heme oxygenase, cyclooxygenase and nitric oxide synthase pathways in the regulation of the resting hypothalamic blood flow. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S187-S187.	2.4	0
67	Inhibition of the cannabinoid-1 receptor enhances the cerebrocortical hyperemic response to hypoxia/hypercapnia. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S189-S189.	2.4	0
68	Adaptation of the hypothalamic blood flow to chronic nitric oxide synthase blockade. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S206-S206.	2.4	0
69	Isometric force measurement in mouse cerebral arteries: Establishing reference values and characterizing functional consequences of endothelial nitric oxide synthase knock-out in the basilar artery. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S546-S546.	2.4	0
70	Contribution of the Heme Oxygenase Pathway to the Maintenance of the Hypothalamic Blood Flow during Diminished Nitric Oxide Synthesis. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 653-657.	2.4	15
71	Prostacyclin-mediated compensatory mechanism in the coronary circulation during acute NO synthase blockade. Life Sciences, 2003, 73, 1141-1149.	2.0	9
72	Neuronal nitric oxide synthase in the cerebrovascular endothelium. International Congress Series, 2002, 1235, 369-377.	0.2	0

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73	Inhibition of endothelin-1 by the competitive ET A receptor antagonist Ro 61-1790 reduces lesion volume after cold injury in the rat. Pflugers Archiv European Journal of Physiology, 2001, 441, 844-849.	1.3	9
74	Involvement of prostanoid release in the mediation of UTP-induced cerebrovascular contraction in the rat. Brain Research, 2001, 896, 169-174.	1.1	8
75	Functional importance of neuronal nitric oxide synthase in the endothelium of rat basilar arteries. Brain Research, 2000, 877, 79-84.	1.1	25
76	The cerebrocortical microcirculatory effect of nitric oxide synthase blockade is dependent upon baseline red blood cell flow in the rat. Neuroscience Letters, 2000, 291, 65-68.	1.0	13
77	Interaction between Nitric Oxide and Thromboxane A2 in the Regulation of the Resting Cerebrovascular Tone. Advances in Experimental Medicine and Biology, 1999, 471, 373-379.	0.8	6
78	Involvement of Thromboxane A2 in the Mediation of the Contractile Effect Induced by Inhibition of Nitric Oxide Synthesis in Isolated Rat Middle Cerebral Arteries. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 616-618.	2.4	30
79	Role of nitric oxide and thromboxane in the maintenance of cerebrovascular tone. Kidney International, 1998, 54, S218-S220.	2.6	12
80	Intravenous Î²-endorphin administration fails to alter hypothalamic blood flow in rats expressing normal or reduced nitric oxide synthase activity. Peptides, 1996, 17, 733-736.	1.2	4
81	Hypothalamic blood flow remains unaltered following chronic nitric oxide synthase blockade in rats. Neuroscience Letters, 1995, 198, 127-130.	1.0	15
82	Nimodipine prevents early loss of hippocampal CA1 parvalbumin immunoreactivity after focal cerebral ischemia in the rat. Brain Research Bulletin, 1995, 36, 569-572.	1.4	13
83	Role of platelet-activating factor in the development of endothelial dysfunction in hemorrhagic hypotension and retransfusion. Thrombosis Research, 1992, 66, 23-31.	0.8	15
84	Activated neutrophils inhibit cerebrovascular endothelium-dependent relaxations. Life Sciences, 1991, 49, 1087-1094.	2.0	18