

Erik N T P Bakker

List of Publications by Year in descending order

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71
papers

2,604
citations

185998

28
h-index

197535

49
g-index

75
all docs

75
docs citations

75
times ranked

3014
citing authors

#	ARTICLE	IF	CITATIONS
1	Lymphatic Clearance of the Brain: Perivascular, Paravascular and Significance for Neurodegenerative Diseases. <i>Cellular and Molecular Neurobiology</i> , 2016, 36, 181-194.	1.7	297
2	Small Artery Remodeling Depends on Tissue-Type Transglutaminase. <i>Circulation Research</i> , 2005, 96, 119-126.	2.0	164
3	Inward Remodeling Follows Chronic Vasoconstriction in Isolated Resistance Arteries. <i>Journal of Vascular Research</i> , 2002, 39, 12-20.	0.6	140
4	Paravascular spaces at the brain surface: Low resistance pathways for cerebrospinal fluid flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 719-726.	2.4	133
5	Flow-Dependent Remodeling of Small Arteries in Mice Deficient for Tissue-Type Transglutaminase. <i>Circulation Research</i> , 2006, 99, 86-92.	2.0	106
6	Paravascular channels, cisterns, and the subarachnoid space in the rat brain: A single compartment with preferential pathways. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1374-1385.	2.4	104
7	Small Artery Remodeling: Current Concepts and Questions. <i>Journal of Vascular Research</i> , 2010, 47, 183-202.	0.6	86
8	Clearance from the mouse brain by convection of interstitial fluid towards the ventricular system. <i>Fluids and Barriers of the CNS</i> , 2015, 12, 23.	2.4	85
9	Blood flow-dependent arterial remodelling is facilitated by inflammation but directed by vascular tone. <i>Cardiovascular Research</i> , 2008, 78, 341-348.	1.8	78
10	Transglutaminases in Vascular Biology: Relevance for Vascular Remodeling and Atherosclerosis. <i>Journal of Vascular Research</i> , 2008, 45, 271-278.	0.6	77
11	Endothelial basement membrane laminin 511 is essential for shear stress response. <i>EMBO Journal</i> , 2017, 36, 183-201.	3.5	75
12	Activation of Resistance Arteries with Endothelin-1: From Vasoconstriction to Functional Adaptation and Remodeling. <i>Journal of Vascular Research</i> , 2004, 41, 174-182.	0.6	70
13	TR3 Nuclear Orphan Receptor Prevents Cyclic Stretch-Induced Proliferation of Venous Smooth Muscle Cells. <i>American Journal of Pathology</i> , 2006, 168, 2027-2035.	1.9	62
14	Organoid culture of cannulated rat resistance arteries: effect of serum factors on vasoactivity and remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H1233-H1240.	1.5	58
15	Downregulation of Bone Morphogenetic Protein 4 Expression in Coronary Arterial Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 776-782.	1.1	51
16	Small Artery Remodeling and Erythrocyte Deformability in α -NAME-Induced Hypertension: Role of Transglutaminases. <i>Journal of Vascular Research</i> , 2008, 45, 10-18.	0.6	49
17	The Redox State of Transglutaminase 2 Controls Arterial Remodeling. <i>PLoS ONE</i> , 2011, 6, e23067.	1.1	44
18	Nuclear receptor Nur77 inhibits vascular outward remodelling and reduces macrophage accumulation and matrix metalloproteinase levels. <i>Cardiovascular Research</i> , 2010, 87, 561-568.	1.8	42

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19	Shear Stress, Reactive Oxygen Species, and Arterial Structure and Function. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1699-1709.	2.5	37
20	Hypertension reduces soluble guanylyl cyclase expression in the mouse aorta via the Notch signaling pathway. <i>Scientific Reports</i> , 2017, 7, 1334.	1.6	37
21	Calcium channel blockade prevents pressure-dependent inward remodeling in isolated subendocardial resistance vessels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1236-H1245.	1.5	34
22	Paravascular spaces: entry to or exit from the brain?. <i>Experimental Physiology</i> , 2019, 104, 1013-1017.	0.9	34
23	Flow inhibits inward remodeling in cannulated porcine small coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H2632-H2640.	1.5	33
24	Activation of Extracellular Transglutaminase 2 by Mechanical Force in the Arterial Wall. <i>Journal of Vascular Research</i> , 2013, 50, 383-395.	0.6	31
25	Smooth Muscle Biomechanics and Plasticity: Relevance for Vascular Calibre and Remodelling. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2012, 110, 35-41.	1.2	30
26	Components of acetylcholine-induced dilation in isolated rat arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H1848-H1853.	1.5	28
27	Remodeling of resistance arteries in organoid culture is modulated by pressure and pressure pulsation and depends on vasomotion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H2052-H2056.	1.5	28
28	Strain-dependent susceptibility for hypertension in mice resides in the natural killer gene complex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1273-H1282.	1.5	28
29	Tissue transglutaminase activity is involved in the differentiation of oligodendrocyte precursor cells into myelin-forming oligodendrocytes during CNS remyelination. <i>Glia</i> , 2011, 59, 1622-1634.	2.5	28
30	Differential structural adaptation to haemodynamics along single rat cremaster arterioles. <i>Journal of Physiology</i> , 2003, 548, 549-555.	1.3	28
31	Tissue Transglutaminase in Alzheimer's Disease: Involvement in Pathogenesis and its Potential as a Therapeutic Target. <i>Journal of Alzheimer's Disease</i> , 2014, 42, S289-S303.	1.2	27
32	Enhanced interstitial fluid drainage in the hippocampus of spontaneously hypertensive rats. <i>Scientific Reports</i> , 2017, 7, 744.	1.6	27
33	Vena cava and aortic smooth muscle cells express transglutaminases 1 and 4 in addition to transglutaminase 2. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1355-H1366.	1.5	26
34	Transglutaminase 2 is secreted from smooth muscle cells by transamidation-dependent microparticle formation. <i>Amino Acids</i> , 2012, 42, 961-973.	1.2	26
35	Transglutaminase activity regulates atherosclerotic plaque composition at locations exposed to oscillatory shear stress. <i>Atherosclerosis</i> , 2012, 224, 355-362.	0.4	23
36	Mechanics of microvascular remodeling. <i>Clinical Hemorheology and Microcirculation</i> , 2006, 34, 35-41.	0.9	22

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37	Gene Expression and MicroRNA Expression Analysis in Small Arteries of Spontaneously Hypertensive Rats. Evidence for ER Stress. <i>PLoS ONE</i> , 2015, 10, e0137027.	1.1	21
38	Blood-brain and blood-cerebrospinal fluid barrier permeability in spontaneously hypertensive rats. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 26.	2.4	21
39	Celiprolol but not losartan improves the biomechanical integrity of the aorta in a mouse model of vascular Ehlers-Danlos syndrome. <i>Cardiovascular Research</i> , 2020, 116, 457-465.	1.8	21
40	Nur77 protects against adverse cardiac remodelling by limiting neuropeptide Y signalling in the sympathoadrenal-cardiac axis. <i>Cardiovascular Research</i> , 2018, 114, 1617-1628.	1.8	19
41	Endothelin-1-Induced Constriction Inhibits Nitric-Oxide-Mediated Dilation in Isolated Rat Resistance Arteries. <i>Journal of Vascular Research</i> , 1997, 34, 418-424.	0.6	18
42	Extravasation of Microspheres in a Rat Model of Silent Brain Infarcts. <i>Stroke</i> , 2019, 50, 1590-1594.	1.0	18
43	Role of transglutaminases in cuff-induced atherosclerotic lesion formation in femoral arteries of ApoE3 Leiden mice. <i>Atherosclerosis</i> , 2010, 213, 77-84.	0.4	17
44	Heterogeneity in Arterial Remodeling among Sublines of Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2014, 9, e107998.	1.1	17
45	Calcification Locates to Transglutaminases in Advanced Human Atherosclerotic Lesions. <i>American Journal of Pathology</i> , 2009, 175, 1374-1379.	1.9	16
46	Thrombospondin-4 knockout in hypertension protects small-artery endothelial function but induces aortic aneurysms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1486-H1493.	1.5	16
47	Brain solute transport is more rapid in periarterial than perivenous spaces. <i>Scientific Reports</i> , 2021, 11, 16085.	1.6	16
48	Vascular smooth muscle cells remodel collagen matrices by long-distance action and anisotropic interaction. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 701-715.	1.6	15
49	Thrombospondin-4 mediates cardiovascular remodelling in angiotensin II-induced hypertension. <i>Cardiovascular Pathology</i> , 2018, 35, 12-19.	0.7	15
50	Relation between active and passive biomechanics of small mesenteric arteries during remodeling. <i>Journal of Biomechanics</i> , 2013, 46, 1420-1426.	0.9	13
51	Microembolus clearance through angiophagy is an auxiliary mechanism preserving tissue perfusion in the rat brain. <i>Acta Neuropathologica Communications</i> , 2020, 8, 195.	2.4	13
52	Altered brain fluid management in a rat model of arterial hypertension. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 41.	2.4	12
53	Smooth Muscle Contractile Plasticity in Rat Mesenteric Small Arteries: Sensitivity to Specific Vasoconstrictors, Distension and Inflammatory Cytokines. <i>Journal of Vascular Research</i> , 2013, 50, 249-262.	0.6	10
54	Testosterone and 17 β -oestradiol prevent inward remodelling of rat small mesenteric arteries: role of NO and transglutaminase. <i>Clinical Science</i> , 2013, 124, 719-728.	1.8	9

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55	A Vascular Bone Collector. <i>Circulation Research</i> , 2008, 102, 507-509.	2.0	8
56	Optimization of Vascular Casting for Three-Dimensional Fluorescence Cryo-Imaging of Collateral Vessels in the Ischemic Rat Hindlimb. <i>Microscopy and Microanalysis</i> , 2017, 23, 77-87.	0.2	8
57	Sustained conduction of vasomotor responses in rat mesenteric arteries in a two-compartment in vitro set up. <i>Acta Physiologica</i> , 2018, 224, e13099.	1.8	8
58	Recovery of Hypoxic Regions in a Rat Model of Microembolism. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105739.	0.7	8
59	Cerebral Artery Remodeling in Rodent Models of Subarachnoid Hemorrhage. <i>Journal of Vascular Research</i> , 2015, 52, 103-115.	0.6	6
60	Quantitative 3D analysis of tissue damage in a rat model of microembolization. <i>Journal of Biomechanics</i> , 2021, 128, 110723.	0.9	6
61	Vasomotor Effects Of ARG-Gly-ASP (RGD) Peptides Are Limited And Not Related To Endothelium-Derived Hyperpolarizing Factor-Mediated Relaxation In Rat Mesenteric Arteries. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001, 28, 873-876.	0.9	5
62	MBEC special issue on microcirculation –engineering principles of vascular networks–. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 407-9.	1.6	4
63	Decomposition cross-correlation for analysis of collagen matrix deformation by single smooth muscle cells. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 443-450.	1.6	2
64	Mapping Solute Clearance From the Mouse Hippocampus Using a 3D Imaging Cryomicrotome. <i>Frontiers in Neuroscience</i> , 2021, 15, 631325.	1.4	1
65	The Cerebral Microcirculation. <i>Updates in Hypertension and Cardiovascular Protection</i> , 2020, , 59-72.	0.1	1
66	Biomechanics in Small Artery Remodeling. <i>Cardiac and Vascular Biology</i> , 2021, , 47-68.	0.2	0
67	PRESSURE- AND FLOW-DEPENDENT VASCULAR REMODELING IN MICE DEFICIENT FOR TISSUE-TYPE TRANSGLUTAMINASE. <i>FASEB Journal</i> , 2006, 20, A710.	0.2	0
68	Down-regulation of BMP-4 Expression in Coronary Arterial Endothelial Cells: Role of Shear Stress and the cAMP/PKA Pathway. <i>FASEB Journal</i> , 2008, 22, 1145.1.	0.2	0
69	The Redox State of Transglutaminase Controls Arterial Remodeling. <i>FASEB Journal</i> , 2011, 25, 1093.2.	0.2	0
70	Intrinsic balance of small artery active and passive diameter-tension relations. <i>FASEB Journal</i> , 2013, 27, 902.6.	0.2	0
71	IMAGING PERIVASCULAR TRANSPORT IN THE BRAIN. <i>FASEB Journal</i> , 2013, 27, 709.3.	0.2	0