

Erik N T P Bakker

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,604
citations

186209

28
h-index

197736

49
g-index

75
all docs

75
docs citations

75
times ranked

3014
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Biomechanics in Small Artery Remodeling. <i>Cardiac and Vascular Biology</i> , 2021, , 47-68. | 0.2 | 0 |
| 2 | Mapping Solute Clearance From the Mouse Hippocampus Using a 3D Imaging Cryomicrotome. <i>Frontiers in Neuroscience</i> , 2021, 15, 631325. | 1.4 | 1 |
| 3 | Recovery of Hypoxic Regions in a Rat Model of Microembolism. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105739. | 0.7 | 8 |
| 4 | Brain solute transport is more rapid in periarterial than perivenous spaces. <i>Scientific Reports</i> , 2021, 11, 16085. | 1.6 | 16 |
| 5 | Quantitative 3D analysis of tissue damage in a rat model of microembolization. <i>Journal of Biomechanics</i> , 2021, 128, 110723. | 0.9 | 6 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | The Cerebral Microcirculation. <i>Updates in Hypertension and Cardiovascular Protection</i> , 2020, , 59-72. | 0.1 | 1 |
| 10 | Extravasation of Microspheres in a Rat Model of Silent Brain Infarcts. <i>Stroke</i> , 2019, 50, 1590-1594. | 1.0 | 18 |
| 11 | Paravascular spaces: entry to or exit from the brain?. <i>Experimental Physiology</i> , 2019, 104, 1013-1017. | 0.9 | 34 |
| 12 | Thrombospondin-4 mediates cardiovascular remodelling in angiotensin II-induced hypertension. <i>Cardiovascular Pathology</i> , 2018, 35, 12-19. | 0.7 | 15 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Enhanced interstitial fluid drainage in the hippocampus of spontaneously hypertensive rats. <i>Scientific Reports</i> , 2017, 7, 744. | 1.6 | 27 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Endothelial basement membrane laminin 511 is essential for shear stress response. <i>EMBO Journal</i> , 2017, 36, 183-201. | 3.5 | 75 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Cerebral Artery Remodeling in Rodent Models of Subarachnoid Hemorrhage. <i>Journal of Vascular Research</i> , 2015, 52, 103-115. | 0.6 | 6 |
| 26 | 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 |
| 27 | 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 |
| 28 | Heterogeneity in Arterial Remodeling among Sublines of Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2014, 9, e107998. | 1.1 | 17 |
| 29 | 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 |
| 30 | Relation between active and passive biomechanics of small mesenteric arteries during remodeling. <i>Journal of Biomechanics</i> , 2013, 46, 1420-1426. | 0.9 | 13 |
| 31 | Testosterone and $\hat{1}^2$ -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 |
| 32 | 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 |
| 33 | Intrinsic balance of small artery active and passive diameter-tension relations. <i>FASEB Journal</i> , 2013, 27, 902.6. | 0.2 | 0 |
| 34 | IMAGING PERIVASCULAR TRANSPORT IN THE BRAIN. <i>FASEB Journal</i> , 2013, 27, 709.3. | 0.2 | 0 |
| 35 | 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 |
| 36 | Transglutaminase activity regulates atherosclerotic plaque composition at locations exposed to oscillatory shear stress. <i>Atherosclerosis</i> , 2012, 224, 355-362. | 0.4 | 23 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Transglutaminase 2 is secreted from smooth muscle cells by transamidation-dependent microparticle formation. <i>Amino Acids</i> , 2012, 42, 961-973. | 1.2 | 26 |
| 40 | Tissue transglutaminase activity is involved in the differentiation of oligodendrocyte precursor cells into myelinâ€forming oligodendrocytes during CNS remyelination. <i>Glia</i> , 2011, 59, 1622-1634. | 2.5 | 28 |
| 41 | The Redox State of Transglutaminase 2 Controls Arterial Remodeling. <i>PLoS ONE</i> , 2011, 6, e23067. | 1.1 | 44 |
| 42 | The Redox State of Transglutaminase Controls Arterial Remodeling. <i>FASEB Journal</i> , 2011, 25, 1093.2. | 0.2 | 0 |
| 43 | 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 |
| 44 | Small Artery Remodeling: Current Concepts and Questions. <i>Journal of Vascular Research</i> , 2010, 47, 183-202. | 0.6 | 86 |
| 45 | 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 |
| 46 | 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 |
| 47 | Shear Stress, Reactive Oxygen Species, and Arterial Structure and Function. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1699-1709. | 2.5 | 37 |
| 48 | Calcification Locates to Transglutaminases in Advanced Human Atherosclerotic Lesions. <i>American Journal of Pathology</i> , 2009, 175, 1374-1379. | 1.9 | 16 |
| 49 | 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 |
| 50 | MBEC special issue on microcirculation â€œengineering principles of vascular networksâ€• <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 407-9. | 1.6 | 4 |
| 51 | Small Artery Remodeling and Erythrocyte Deformability in <i>L-NAME</i>-Induced Hypertension: Role of Transglutaminases. <i>Journal of Vascular Research</i> , 2008, 45, 10-18. | 0.6 | 49 |
| 52 | Transglutaminases in Vascular Biology: Relevance for Vascular Remodeling and Atherosclerosis. <i>Journal of Vascular Research</i> , 2008, 45, 271-278. | 0.6 | 77 |
| 53 | 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 |
| 54 | A Vascular Bone Collector. <i>Circulation Research</i> , 2008, 102, 507-509. | 2.0 | 8 |

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|----|---|-----|-----------|
| 55 | Downregulation of BMP4 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Flow-Dependent Remodeling of Small Arteries in Mice Deficient for Tissue-Type Transglutaminase. <i>Circulation Research</i> , 2006, 99, 86-92. | 2.0 | 106 |
| 60 | PRESSURE- AND FLOW-DEPENDENT VASCULAR REMODELING IN MICE DEFICIENT FOR TISSUE-TYPE TRANSGLUTAMINASE. <i>FASEB Journal</i> , 2006, 20, A710. | 0.2 | 0 |
| 61 | Mechanics of microvascular remodeling. <i>Clinical Hemorheology and Microcirculation</i> , 2006, 34, 35-41. | 0.9 | 22 |
| 62 | Small Artery Remodeling Depends on Tissue-Type Transglutaminase. <i>Circulation Research</i> , 2005, 96, 119-126. | 2.0 | 164 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | Differential structural adaptation to haemodynamics along single rat cremaster arterioles. <i>Journal of Physiology</i> , 2003, 548, 549-555. | 1.3 | 28 |
| 67 | Inward Remodeling Follows Chronic Vasoconstriction in Isolated Resistance Arteries. <i>Journal of Vascular Research</i> , 2002, 39, 12-20. | 0.6 | 140 |
| 68 | 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 |
| 69 | 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 |
| 70 | Endothelin-1-Induced Constriction Inhibits Nitric-Oxide-Mediated Dilatation in Isolated Rat Resistance Arteries. <i>Journal of Vascular Research</i> , 1997, 34, 418-424. | 0.6 | 18 |
| 71 | 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 |