

# Ralf P Brandes

## List of Publications by Year in descending order

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252  
papers

21,680  
citations

6254

80  
h-index

10445

139  
g-index

257  
all docs

257  
docs citations

257  
times ranked

23350  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apocynin Is Not an Inhibitor of Vascular NADPH Oxidases but an Antioxidant. Hypertension, 2008, 51, 211-217.	2.7	677
2	A gp91phox Containing NADPH Oxidase Selectively Expressed in Endothelial Cells Is a Major Source of Oxygen Radical Generation in the Arterial Wall. Circulation Research, 2000, 87, 26-32.	4.5	562
3	Nox family NADPH oxidases: Molecular mechanisms of activation. Free Radical Biology and Medicine, 2014, 76, 208-226.	2.9	546
4	Nox4 Is a Protective Reactive Oxygen Species Generating Vascular NADPH Oxidase. Circulation Research, 2012, 110, 1217-1225.	4.5	540
5	Transdifferentiation of Blood-Derived Human Adult Endothelial Progenitor Cells Into Functionally Active Cardiomyocytes. Circulation, 2003, 107, 1024-1032.	1.6	520
6	Endothelial aging. Cardiovascular Research, 2005, 66, 286-294.	3.8	513
7	Direct Interaction of the Novel Nox Proteins with p22phox Is Required for the Formation of a Functionally Active NADPH Oxidase. Journal of Biological Chemistry, 2004, 279, 45935-45941.	3.4	468
8	The E-loop Is Involved in Hydrogen Peroxide Formation by the NADPH Oxidase Nox4. Journal of Biological Chemistry, 2011, 286, 13304-13313.	3.4	445
9	Endothelium-Derived Hyperpolarizing Factor Synthase (Cytochrome P450 2C9) Is a Functionally Significant Source of Reactive Oxygen Species in Coronary Arteries. Circulation Research, 2001, 88, 44-51.	4.5	405
10	NADPH oxidase-4 mediates protection against chronic load-induced stress in mouse hearts by enhancing angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18121-18126.	7.1	401
11	Thrombin Activates the Hypoxia-Inducible Factor-1 Signaling Pathway in Vascular Smooth Muscle Cells. Circulation Research, 2001, 89, 47-54.	4.5	390
12	NADPH Oxidase Plays a Central Role in Blood-Brain Barrier Damage in Experimental Stroke. Stroke, 2007, 38, 3000-3006.	2.0	359
13	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. Nature, 2011, 473, 234-238.	27.8	350
14	Vascular NADPH oxidases: molecular mechanisms of activation. Cardiovascular Research, 2005, 65, 16-27.	3.8	338
15	MicroRNA-29 in Aortic Dilatation: Implications for Aneurysm Formation. Circulation Research, 2011, 109, 1115-1119.	4.5	326
16	Antioxidative stress-associated genes in circulating progenitor cells: evidence for enhanced resistance against oxidative stress. Blood, 2004, 104, 3591-3597.	1.4	314
17	AT 1 Receptor Agonistic Antibodies From Preeclamptic Patients Stimulate NADPH Oxidase. Circulation, 2003, 107, 1632-1639.	1.6	305
18	Cell-to-Cell Connection of Endothelial Progenitor Cells With Cardiac Myocytes by Nanotubes. Circulation Research, 2005, 96, 1039-1041.	4.5	286

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19	An endothelium-derived hyperpolarizing factor distinct from NO and prostacyclin is a major endothelium-dependent vasodilator in resistance vessels of wild-type and endothelial NO synthase knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9747-9752.	7.1	253
20	gp91phox-Containing NADPH Oxidase Mediates Endothelial Dysfunction in Renovascular Hypertension. <i>Circulation</i> , 2004, 109, 1795-1801.	1.6	252
21	NADPH oxidases in cardiovascular disease. <i>Free Radical Biology and Medicine</i> , 2010, 49, 687-706.	2.9	241
22	Hydrogen Peroxide Triggers Nuclear Export of Telomerase Reverse Transcriptase via Src Kinase Family-Dependent Phosphorylation of Tyrosine 707. <i>Molecular and Cellular Biology</i> , 2003, 23, 4598-4610.	2.3	229
23	Nox4 Acts as a Switch Between Differentiation and Proliferation in Preadipocytes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 239-245.	2.4	228
24	Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. <i>Free Radical Biology and Medicine</i> , 2012, 53, 289-296.	2.9	220
25	Extracellular Superoxide Dismutase Is a Major Determinant of Nitric Oxide Bioavailability. <i>Circulation Research</i> , 2003, 93, 622-629.	4.5	219
26	Endothelial Dysfunction and Hypertension. <i>Hypertension</i> , 2014, 64, 924-928.	2.7	207
27	p47phox-Dependent NADPH Oxidase Regulates Flow-Induced Vascular Remodeling. <i>Circulation Research</i> , 2005, 97, 533-540.	4.5	203
28	<i>Ex vivo</i> pretreatment of bone marrow mononuclear cells with endothelial NO synthase enhancer AVE9488 enhances their functional activity for cell therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14537-14541.	7.1	203
29	Dietary L-Arginine Reduces the Progression of Atherosclerosis in Cholesterol-Fed Rabbits. <i>Circulation</i> , 1997, 96, 1282-1290.	1.6	202
30	Regulation of NAD(P)H Oxidase by Associated Protein Disulfide Isomerase in Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 40813-40819.	3.4	196
31	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. <i>Circulation</i> , 2017, 136, 65-79.	1.6	196
32	Nebivolol Inhibits Superoxide Formation by NADPH Oxidase and Endothelial Dysfunction in Angiotensin II-Treated Rats. <i>Hypertension</i> , 2006, 48, 677-684.	2.7	181
33	Anatomic Heterogeneity of Vascular Aging. <i>Hypertension</i> , 1997, 30, 817-824.	2.7	178
34	CD40 Ligand+ Microparticles From Human Atherosclerotic Plaques Stimulate Endothelial Proliferation and Angiogenesis. <i>Journal of the American College of Cardiology</i> , 2008, 52, 1302-1311.	2.8	176
35	Soluble Epoxide Hydrolase Is a Main Effector of Angiotensin II-Induced Hypertension. <i>Hypertension</i> , 2005, 45, 759-765.	2.7	168
36	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. <i>Nature Communications</i> , 2012, 3, 649.	12.8	162

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37	Withdrawal of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Inhibitors Elicits Oxidative Stress and Induces Endothelial Dysfunction in Mice. <i>Circulation Research</i> , 2002, 91, 173-179.	4.5	158
38	NADPH Oxidase-Derived Overproduction of Reactive Oxygen Species Impairs Postischemic Neovascularization in Mice with Type 1 Diabetes. <i>American Journal of Pathology</i> , 2006, 169, 719-728.	3.8	154
39	The NADPH oxidase Nox4 has anti-atherosclerotic functions. <i>European Heart Journal</i> , 2015, 36, 3447-3456.	2.2	150
40	NADPH oxidase 4 limits bone mass by promoting osteoclastogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 4731-4738.	8.2	142
41	Hepatocyte Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 4 Regulates Stress Signaling, Fibrosis, and Insulin Sensitivity During Development of Steatohepatitis in Mice. <i>Gastroenterology</i> , 2015, 149, 468-480.e10.	1.3	136
42	Role of Podocytes for Reversal of Glomerulosclerosis and Proteinuria in the Aging Kidney After Endothelin Inhibition. <i>Hypertension</i> , 2004, 44, 974-981.	2.7	135
43	First Evidence for a Crosstalk Between Mitochondrial and NADPH Oxidase-Derived Reactive Oxygen Species in Nitroglycerin-Triggered Vascular Dysfunction. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1435-1448.	5.4	135
44	Nox1 Mediates Basic Fibroblast Growth Factor-Induced Migration of Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1736-1743.	2.4	134
45	Vascular Release of Superoxide Radicals Is Enhanced in Hypercholesterolemic Rabbits. <i>Journal of Cardiovascular Pharmacology</i> , 1994, 24, 994-998.	1.9	133
46	Analysis of Dichlorodihydrofluorescein and Dihydrocalcein as Probes for the Detection of Intracellular Reactive Oxygen Species. <i>Free Radical Research</i> , 2004, 38, 1257-1267.	3.3	133
47	Role of Nox4 in murine models of kidney disease. <i>Free Radical Biology and Medicine</i> , 2012, 53, 842-853.	2.9	131
48	Increased Nitrovasodilator Sensitivity in Endothelial Nitric Oxide Synthase Knockout Mice. <i>Hypertension</i> , 2000, 35, 231-236.	2.7	130
49	Identification of Structural Elements in Nox1 and Nox4 Controlling Localization and Activity. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1279-1287.	5.4	129
50	TGF- $\beta$ 2 directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E374-83.	7.1	129
51	Vascular CXCR4 Limits Atherosclerosis by Maintaining Arterial Integrity. <i>Circulation</i> , 2017, 136, 388-403.	1.6	128
52	Role of reactive oxygen species and gp91phox in endothelial dysfunction of pulmonary arteries induced by chronic hypoxia. <i>British Journal of Pharmacology</i> , 2006, 148, 714-723.	5.4	126
53	NADPH oxidases as therapeutic targets in ischemic stroke. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2345-2363.	5.4	125
54	Oxidant stress in hyperlipidemia-induced renal damage. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 278, F63-F74.	2.7	122

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55	Non-canonical Wnt Signaling Enhances Differentiation of Human Circulating Progenitor Cells to Cardiomyogenic Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 16838-16842.	3.4	122
56	The Nox Family of NADPH Oxidases: Friend or Foe of the Vascular System?. <i>Current Hypertension Reports</i> , 2012, 14, 70-78.	3.5	122
57	Angiotensin-Converting Enzyme Is Involved in Outside-In Signaling in Endothelial Cells. <i>Circulation Research</i> , 2004, 94, 60-67.	4.5	121
58	Roles of reactive oxygen species in angiotensinâ€‘1/tieâ€‘2 receptor signaling. <i>FASEB Journal</i> , 2005, 19, 1728-1730.	0.5	115
59	Role of Increased Production of Superoxide Anions by NAD(P)H Oxidase and Xanthine Oxidase in Prolonged Endotoxemia. <i>Hypertension</i> , 1999, 33, 1243-1249.	2.7	113
60	Which NADPH Oxidase Isoform Is Relevant for Ischemic Stroke? The Case for Nox 2. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1400-1417.	5.4	110
61	Peroxisome Proliferatorâ€‘Activated Receptor Î± Induces NADPH Oxidase Activity in Macrophages, Leading to the Generation of LDL with PPAR-Î± Activation Properties. <i>Circulation Research</i> , 2004, 95, 1174-1182.	4.5	108
62	Role of Src Tyrosine Kinases in Experimental Pulmonary Hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1354-1365.	2.4	108
63	NADPH Oxidase Mediates Tissue Factorâ€‘Dependent Surface Procoagulant Activity by Thrombin in Human Vascular Smooth Muscle Cells. <i>Circulation</i> , 2002, 105, 2030-2036.	1.6	107
64	Dietary l-arginine and Î±-tocopherol reduce vascular oxidative stress and preserve endothelial function in hypercholesterolemic rabbits via different mechanisms. <i>Atherosclerosis</i> , 1998, 141, 31-43.	0.8	106
65	Oxidized low-density lipoprotein increases superoxide production by endothelial nitric oxide synthase by inhibiting PKC?. <i>Cardiovascular Research</i> , 2005, 65, 897-906.	3.8	105
66	NADPH Oxidase Nox2 Is Required for Hypoxia-Induced Mobilization of Endothelial Progenitor Cells. <i>Circulation Research</i> , 2009, 105, 537-544.	4.5	105
67	Cystathionine Î³ Lyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. <i>Circulation</i> , 2019, 139, 101-114.	1.6	103
68	Dynamic Modulation of Interendothelial Gap Junctional Communication by 11,12-Epoxyeicosatrienoic Acid. <i>Circulation Research</i> , 2002, 90, 800-806.	4.5	101
69	Nox Activator 1. <i>Circulation</i> , 2010, 121, 549-559.	1.6	99
70	NADPH Oxidase-4 Maintains Neuropathic Pain after Peripheral Nerve Injury. <i>Journal of Neuroscience</i> , 2012, 32, 10136-10145.	3.6	94
71	Oxidative stress and expression of p22phox are involved in the upâ€‘regulation of tissue factor in vascular smooth muscle cells in response to activated platelets. <i>FASEB Journal</i> , 2000, 14, 1518-1528.	0.5	92
72	Vitamin D Promotes Vascular Regeneration. <i>Circulation</i> , 2014, 130, 976-986.	1.6	91

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73	Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates $\text{eIF}2\alpha$ -mediated stress signaling. EMBO Journal, 2016, 35, 319-334.	7.8	91
74	The terminal complement complex C5b-9 stimulates interleukin-6 production in human smooth muscle cells through activation of transcription factors NF- $\kappa$ B and AP-1. FASEB Journal, 2000, 14, 2370-2372.	0.5	90
75	The vascular NADPH oxidase subunit p47phox is involved in redox-mediated gene expression. Free Radical Biology and Medicine, 2002, 32, 1116-1122.	2.9	90
76	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. Circulation Research, 2017, 121, 424-438.	4.5	90
77	Glucocorticoids Inhibit Superoxide Anion Production and p22 Phox mRNA Expression in Human Aortic Smooth Muscle Cells. Hypertension, 1998, 32, 1083-1088.	2.7	89
78	Targeting Inflammation and Oxidative Stress in Atrial Fibrillation: Role of 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Inhibition with Statins. Antioxidants and Redox Signaling, 2014, 20, 1268-1285.	5.4	85
79	NADPH oxidase Nox1 contributes to ischemic injury in experimental stroke in mice. Neurobiology of Disease, 2010, 40, 185-192.	4.4	84
80	Triggering Mitochondrial Radical Release. Hypertension, 2005, 45, 847-848.	2.7	82
81	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. Journal of Molecular and Cellular Cardiology, 2014, 73, 70-79.	1.9	81
82	Noxa1 is a central component of the smooth muscle NADPH oxidase in mice. Free Radical Biology and Medicine, 2006, 41, 193-201.	2.9	80
83	Stimulation of Soluble Guanylate Cyclase Prevents Cigarette Smoke-induced Pulmonary Hypertension and Emphysema. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1359-1373.	5.6	80
84	Gender differences in the generation of superoxide anions in the rat aorta. Life Sciences, 1997, 60, 391-396.	4.3	78
85	Platelet-derived growth factor activates production of reactive oxygen species by NAD(P)H-oxidase in smooth muscle cells through Gi1,2. FASEB Journal, 2003, 17, 38-40.	0.5	78
86	Monoamine Oxidases Are Mediators of Endothelial Dysfunction in the Mouse Aorta. Hypertension, 2013, 62, 140-146.	2.7	78
87	Biglycan evokes autophagy in macrophages via a novel CD44/Toll-like receptor 4 signaling axis in ischemia/reperfusion injury. Kidney International, 2019, 95, 540-562.	5.2	78
88	Aged Spontaneously Hypertensive Rats Exhibit a Selective Loss of EDHF-Mediated Relaxation in the Renal Artery. Hypertension, 2003, 42, 562-568.	2.7	76
89	Xanthine oxidase inhibitor tungsten prevents the development of atherosclerosis in ApoE knockout mice fed a Western-type diet. Free Radical Biology and Medicine, 2006, 41, 1353-1360.	2.9	76
90	Differential vascular functions of Nox family NADPH oxidases. Current Opinion in Lipidology, 2008, 19, 513-518.	2.7	75

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91	Activation of Rac-1 and RhoA Contributes to Podocyte Injury in Chronic Kidney Disease. PLoS ONE, 2013, 8, e80328.	2.5	74
92	NG-nitro-l-arginine- and indomethacin-resistant endothelium-dependent relaxation in the rabbit renal artery: effect of hypercholesterolemia. Atherosclerosis, 1997, 135, 49-55.	0.8	70
93	Mapping the Endothelial Cell <i>NO</i> -Sulfhydryl Highlights the Crucial Role of Integrin Sulfhydration in Vascular Function. Circulation, 2021, 143, 935-948.	1.6	70
94	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. Free Radical Biology and Medicine, 2012, 52, 1033-1042.	2.9	68
95	Nox Family NADPH Oxidases in Mechano-Transduction: Mechanisms and Consequences. Antioxidants and Redox Signaling, 2014, 20, 887-898.	5.4	68
96	Regulation of Proliferation of Skeletal Muscle Precursor Cells By NADPH Oxidase. Antioxidants and Redox Signaling, 2008, 10, 559-574.	5.4	64
97	Nicotinamide Adenine Dinucleotide Phosphate Oxidase-4-Dependent Upregulation of Nuclear Factor Erythroid-2-Like 2 Protects the Heart During Chronic Pressure Overload. Hypertension, 2015, 65, 547-553.	2.7	64
98	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. European Respiratory Journal, 2018, 51, 1701024.	6.7	64
99	Role of NADPH Oxidases in the Control of Vascular Gene Expression. Antioxidants and Redox Signaling, 2003, 5, 803-811.	5.4	63
100	Aging-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. Nature Communications, 2020, 11, 2039.	12.8	63
101	Native LDL Induces Proliferation of Human Vascular Smooth Muscle Cells via Redox-Mediated Activation of ERK 1/2 Mitogen-Activated Protein Kinases. Hypertension, 2002, 39, 645-650.	2.7	62
102	Function of NADPH Oxidase 1 in Pulmonary Arterial Smooth Muscle Cells After Monocrotaline-Induced Pulmonary Vascular Remodeling. Antioxidants and Redox Signaling, 2013, 19, 2213-2231.	5.4	62
103	Conditional Transgenic Expression of Fibroblast Growth Factor 9 in the Adult Mouse Heart Reduces Heart Failure Mortality After Myocardial Infarction. Circulation, 2011, 123, 504-514.	1.6	60
104	The Endoplasmic Reticulum Chaperone Calnexin Is a NADPH Oxidase NOX4 Interacting Protein. Journal of Biological Chemistry, 2016, 291, 7045-7059.	3.4	60
105	Nitric oxide down-regulates the expression of the catalytic NADPH oxidase subunit Nox1 in rat renal mesangial cells. FASEB Journal, 2006, 20, 139-141.	0.5	58
106	Composition and Functions of Vascular Nicotinamide Adenine Dinucleotide Phosphate Oxidases. Trends in Cardiovascular Medicine, 2008, 18, 15-19.	4.9	58
107	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. Free Radical Biology and Medicine, 2017, 109, 22-32.	2.9	58
108	Pleiotropic effects of laminar flow and statins depend on the KrÄppel-like factor-induced lncRNA MANTIS. European Heart Journal, 2019, 40, 2523-2533.	2.2	58



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109	Molecular mechanisms of hypoxia-induced factor-induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. <i>Journal of Physiology</i> , 2016, 594, 1167-1177.	2.9	57
110	Nox2-dependent signaling between macrophages and sensory neurons contributes to neuropathic pain hypersensitivity. <i>Pain</i> , 2014, 155, 2161-2170.	4.2	55
111	Detection of Hydrogen Peroxide with Fluorescent Dyes. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 585-602.	5.4	55
112	Inhibition of the Soluble Epoxide Hydrolase Promotes Albuminuria in Mice with Progressive Renal Disease. <i>PLoS ONE</i> , 2010, 5, e11979.	2.5	54
113	Glucose-Stimulated Insulin Secretion Fundamentally Requires H <sub>2</sub> O <sub>2</sub> Signaling by NADPH Oxidase 4. <i>Diabetes</i> , 2020, 69, 1341-1354.	0.6	53
114	Inhibition of the soluble epoxide hydrolase attenuates monocrotaline-induced pulmonary hypertension in rats. <i>Journal of Hypertension</i> , 2009, 27, 322-331.	0.5	52
115	Soluble Epoxide Hydrolase Deficiency Attenuates Neointima Formation in the Femoral Cuff Model of Hyperlipidemic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 909-914.	2.4	52
116	Hepatocyte Growth Factor Induces a Proangiogenic Phenotype and Mobilizes Endothelial Progenitor Cells by Activating Nox2. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 915-923.	5.4	52
117	Levosimendan attenuates pulmonary vascular remodeling. <i>Intensive Care Medicine</i> , 2011, 37, 1368-1377.	8.2	52
118	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 392-399.	5.4	52
119	Both cardiomyocyte and endothelial cell Nox4 mediate protection against hemodynamic overload-induced remodelling. <i>Cardiovascular Research</i> , 2018, 114, 401-408.	3.8	52
120	The Polarity Protein Scrib Is Essential for Directed Endothelial Cell Migration. <i>Circulation Research</i> , 2013, 112, 924-934.	4.5	51
121	Hypoxia-Dependent Reactive Oxygen Species Signaling in the Pulmonary Circulation: Focus on Ion Channels. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 537-552.	5.4	50
122	Estradiol regulates human QT-interval: acceleration of cardiac repolarization by enhanced KCNH2 membrane trafficking. <i>European Heart Journal</i> , 2016, 37, 640-650.	2.2	50
123	Leptin Potentiates Endothelium-Dependent Relaxation by Inducing Endothelial Expression of Neuronal NO Synthase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1605-1612.	2.4	49
124	Bimodal role of NADPH oxidases in the regulation of biglycan-triggered IL-1 $\beta$ synthesis. <i>Matrix Biology</i> , 2016, 49, 61-81.	3.6	49
125	Left ventricular remodeling after myocardial infarction in mice with targeted deletion of the NADPH oxidase subunit gp91PHOX. <i>Basic Research in Cardiology</i> , 2006, 101, 127-132.	5.9	47
126	Inactivation of Extracellular Superoxide Dismutase Contributes to the Development of High-Volume Hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 470-477.	2.4	46



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127	No Superoxideâ€™No Stress?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1255-1257.	2.4	44
128	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. Nature Communications, 2018, 9, 2292.	12.8	44
129	Withdrawal of Cerivastatin Induces Monocyte Chemoattractant Protein 1 and Tissue Factor Expression in Cultured Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1794-1800.	2.4	43
130	Soluble Epoxide Hydrolase Limits Mechanical Hyperalgesia during Inflammation. Molecular Pain, 2011, 7, 1744-8069-7-78.	2.1	43
131	Anti-atherosclerotic mechanisms of statin therapy. Current Opinion in Pharmacology, 2013, 13, 260-264.	3.5	42
132	Deficient angiogenesis in redox-dead Cys17Ser PKARÎ± knock-in mice. Nature Communications, 2015, 6, 7920.	12.8	41
133	MIR503HG Loss Promotes Endothelial-to-Mesenchymal Transition in Vascular Disease. Circulation Research, 2021, 128, 1173-1190.	4.5	41
134	Hyperthyroidism enhances endothelium-dependent relaxation in the rat renal artery. Cardiovascular Research, 2003, 59, 181-188.	3.8	40
135	The NADPH organizers NoxO1 and p47phox are both mediators of diabetes-induced vascular dysfunction in mice. Redox Biology, 2018, 15, 12-21.	9.0	40
136	Antioxidant-oxidant balance in the glomerulus and proximal tubule of the rat kidney. Journal of Physiology, 1998, 509, 599-606.	2.9	39
137	Rho kinase contributes to basal vascular tone in humans: role of endothelium-derived nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H541-H547.	3.2	39
138	Loss of Nrf2 in bone marrow-derived macrophages impairs antigen-driven CD8+ T cell function by limiting GSH and Cys availability. Free Radical Biology and Medicine, 2015, 83, 77-88.	2.9	39
139	Evidence Against a Role for NADPH Oxidase Modulating Hepatic Vascular Tone in Cirrhosis. Gastroenterology, 2007, 133, 959-966.	1.3	37
140	Cytochrome P450 enzymes but not NADPH oxidases are the source of the NADPH-dependent lucigenin chemiluminescence in membrane assays. Free Radical Biology and Medicine, 2017, 102, 57-66.	2.9	37
141	IL-6 augments IL-4-induced polarization of primary human macrophages through synergy of STAT3, STAT6 and BATF transcription factors. OncoImmunology, 2018, 7, e1494110.	4.6	37
142	Shear stress regulates cystathionine Î³ lyase expression to preserve endothelial redox balance and reduce membrane lipid peroxidation. Redox Biology, 2020, 28, 101379.	9.0	37
143	Redox Regulation and Noncoding RNAs. Antioxidants and Redox Signaling, 2018, 29, 793-812.	5.4	36
144	Critical role for p47phox in reninâ€™angiotensin system activation and blood pressure regulation. Cardiovascular Research, 2006, 71, 596-605.	3.8	35

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145	SYNCRIP-Dependent <i>Nox2</i> mRNA Destabilization Impairs ROS Formation in M2-Polarized Macrophages. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 2483-2497.	5.4	35
146	NOX4-dependent Hydrogen peroxide promotes shear stress-induced SHP2 sulfenylation and eNOS activation. <i>Free Radical Biology and Medicine</i> , 2015, 89, 419-430.	2.9	35
147	Long noncoding RNA LISPRI is required for S1P signaling and endothelial cell function. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 116, 57-68.	1.9	35
148	Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: Evidence for clinically significant IKr-IKs $\beta$ -subunit interaction. <i>Heart Rhythm</i> , 2009, 6, 1792-1801.	0.7	34
149	Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2403-2413.	4.1	34
150	$\beta$ controls endothelial planar polarity and vascular inflammation under laminar flow. <i>EMBO Reports</i> , 2018, 19, .	4.5	34
151	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1645-1652.	2.4	33
152	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. <i>Redox Biology</i> , 2016, 9, 287-295.	9.0	33
153	Direct detection of reactive oxygen species ex vivo. <i>Kidney International</i> , 2005, 67, 1662-1664.	5.2	32
154	Long non-coding RNAs: novel regulators of cellular physiology and function. <i>Pflügers Archiv European Journal of Physiology</i> , 2022, 474, 191-204.	2.8	32
155	Biglycan- and Sphingosine Kinase-1 Signaling Crosstalk Regulates the Synthesis of Macrophage Chemoattractants. <i>International Journal of Molecular Sciences</i> , 2017, 18, 595.	4.1	31
156	Role of p22phox in angiotensin $\text{II}$ and platelet-derived growth factor AA induced activator protein 1 activation in vascular smooth muscle cells. <i>Journal of Molecular Medicine</i> , 2004, 82, 31-38.	3.9	29
157	Lung Ischaemiaâ€“Reperfusion Injury: The Role of Reactive Oxygen Species. <i>Advances in Experimental Medicine and Biology</i> , 2017, 967, 195-225.	1.6	29
158	A hierarchical regulatory network analysis of the vitamin D induced transcriptome reveals novel regulators and complete VDR dependency in monocytes. <i>Scientific Reports</i> , 2021, 11, 6518.	3.3	28
159	Inhibition of the Soluble Epoxide Hydrolase by Tyrosine Nitration. <i>Journal of Biological Chemistry</i> , 2009, 284, 28156-28163.	3.4	27
160	Endo-PDI is required for TNF $\alpha$ -induced angiogenesis. <i>Free Radical Biology and Medicine</i> , 2013, 65, 1398-1407.	2.9	27
161	NADPH oxidase 4 regulates homocysteine metabolism and protects against acetaminophen-induced liver damage in mice. <i>Free Radical Biology and Medicine</i> , 2015, 89, 918-930.	2.9	27
162	NADPH oxidase 4 modulates hepatic responses to lipopolysaccharide mediated by Toll-like receptor-4. <i>Scientific Reports</i> , 2017, 7, 14346.	3.3	27

#	ARTICLE	IF	CITATIONS
163	The Histone Demethylase PHF8 Is Essential for Endothelial Cell Migration. PLoS ONE, 2016, 11, e0146645.	2.5	27
164	Phenotypic Characterization of miR-92a <sup>-/-</sup> Mice Reveals an Important Function of miR-92a in Skeletal Development. PLoS ONE, 2014, 9, e101153.	2.5	26
165	The Cytosolic NADPH Oxidase Subunit NoxO1 Promotes an Endothelial Stalk Cell Phenotype. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1558-1565.	2.4	26
166	Analysis of Endothelial Adherence of Bartonella henselae and Acinetobacter baumannii Using a Dynamic Human <i>Ex Vivo</i> Infection Model. Infection and Immunity, 2016, 84, 711-722.	2.2	25
167	Redox Regulation Beyond ROS. Circulation Research, 2018, 123, 326-328.	4.5	25
168	Redox Activation of Nox1 (NADPH Oxidase 1) Involves an Intermolecular Disulfide Bond Between Protein Disulfide Isomerase and p47 <sup>phox</sup> in Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 224-236.	2.4	25
169	Differential Effect of p47 <sup>phox</sup> and gp91 <sup>phox</sup> Deficiency on the Course of Pneumococcal Meningitis. Infection and Immunity, 2003, 71, 4087-4092.	2.2	24
170	The fatter the better? Perivascular adipose tissue attenuates vascular contraction through different mechanisms. British Journal of Pharmacology, 2007, 151, 303-304.	5.4	24
171	Vascular peroxidase 1/peroxidasin: a complex protein with a simple function?. Cardiovascular Research, 2011, 91, 1-2.	3.8	24
172	Statin-Mediated Inhibition of Rho. Circulation Research, 2005, 96, 927-929.	4.5	23
173	NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. Nature Metabolism, 2020, 2, 532-546.	11.9	23
174	Lovastatin maintains nitric oxide <sup>2</sup> but not EDHF-mediated endothelium-dependent relaxation in the hypercholesterolemic rabbit carotid artery. Atherosclerosis, 1999, 142, 97-104.	0.8	22
175	A pirinixic acid derivative (LP105) inhibits murine 5 $\alpha$ - $\alpha$ -hydroxylase activity and attenuates vascular remodelling in a murine model of aortic aneurysm. British Journal of Pharmacology, 2011, 163, 1721-1732.	5.4	22
176	$\alpha$ -Type Calcium Channel Inhibitor Diltiazem Prevents Aneurysm Formation by Blood Pressure <sup>2</sup> Independent Anti-Inflammatory Effects. Hypertension, 2013, 62, 1098-1104.	2.7	22
177	PAFAH1B1 and the lncRNA <i>NONHSAT073641</i> maintain an angiogenic phenotype in human endothelial cells. Acta Physiologica, 2016, 218, 13-27.	3.8	22
178	A Radical Adventure. Circulation Research, 2003, 92, 583-585.	4.5	21
179	Activating SIRT1: a new strategy to prevent atherosclerosis?. Cardiovascular Research, 2008, 80, 163-164.	3.8	21
180	Vascular Functions of NADPH Oxidases. Hypertension, 2010, 56, 17-21.	2.7	21

#	ARTICLE	IF	CITATIONS
181	Role of Xanthine Oxidase in Passive Heymann Nephritis in Rats. Journal of the American Society of Nephrology: JASN, 1999, 10, 538-544.	6.1	21
182	SPARC, a Novel Regulator of Vascular Cell Function in Pulmonary Hypertension. Circulation, 2022, 145, 916-933.	1.6	21
183	Inhalation of the BKCa-Opener NS1619 Attenuates Right Ventricular Pressure and Improves Oxygenation in the Rat Monocrotaline Model of Pulmonary Hypertension. PLoS ONE, 2014, 9, e86636.	2.5	20
184	Genetic deletion of Nox4 enhances cancerogen-induced formation of solid tumors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
185	Pivotal role of xanthine oxidase in the initiation of tubulointerstitial renal injury in rats with hyperlipidemia. Kidney International, 2006, 69, 481-487.	5.2	19
186	Flotillin-1 facilitates toll-like receptor 3 signaling in human endothelial cells. Basic Research in Cardiology, 2014, 109, 439.	5.9	19
187	L-arginine supplementation in hypercholesterolemic rabbits normalizes leukocyte adhesion to non-endothelial matrix. Life Sciences, 2000, 66, 1519-1524.	4.3	18
188	Ncf1 Provides a Reactive Oxygen Species-Independent Negative Feedback Regulation of TLR9-Induced IL-12p70 in Murine Dendritic Cells. Journal of Immunology, 2009, 182, 4183-4191.	0.8	17
189	Therapeutic efficacy of TBC3711 in monocrotaline-induced pulmonary hypertension. Respiratory Research, 2011, 12, 87.	3.6	17
190	Effects of Dimethylarginine Dimethylaminohydrolase <sup>1</sup> Overexpression on the Response of the Pulmonary Vasculature to Hypoxia. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 491-500.	2.9	17
191	Narciclasine inhibits angiogenic processes by activation of Rho kinase and by downregulation of the VEGF receptor 2. Journal of Molecular and Cellular Cardiology, 2019, 135, 97-108.	1.9	17
192	Activation of thromboxane receptor modulates interleukin-1 <sup>2</sup> -induced monocyte adhesion•A novel role of Nox1. Free Radical Biology and Medicine, 2012, 52, 1760-1766.	2.9	15
193	Reprogramming of myeloid angiogenic cells by <i>Bartonella henselae</i> leads to microenvironmental regulation of pathological angiogenesis. Cellular Microbiology, 2015, 17, 1447-1463.	2.1	15
194	Mitochondrial fragmentation in human macrophages attenuates palmitate-induced inflammatory responses. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 433-446.	2.4	15
195	The endocannabinoid anandamide has an anti-inflammatory effect on CCL2 expression in vascular smooth muscle cells. Basic Research in Cardiology, 2020, 115, 34.	5.9	15
196	Intracellular localization of ROR <sup>1</sup> is isoform and cell line-dependent. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 805-814.	4.1	14
197	Tolerizing CTL by Sustained Hepatic PD-L1 Expression Provides a New Therapy Approach in Mouse Sepsis. Theranostics, 2019, 9, 2003-2016.	10.0	13
198	BIAM switch assay coupled to mass spectrometry identifies novel redox targets of NADPH oxidase 4. Redox Biology, 2019, 21, 101125.	9.0	13

#	ARTICLE	IF	CITATIONS
199	Deletion of NoxO1 limits atherosclerosis development in female mice. Redox Biology, 2020, 37, 101713.	9.0	13
200	Myeloid-cell-specific deletion of inducible nitric oxide synthase protects against smoke-induced pulmonary hypertension in mice. European Respiratory Journal, 2022, 59, 2101153.	6.7	13
201	Dietary L-Arginine Normalizes Endothelin-Induced Vascular Contractions in Cholesterol-Fed Rabbits. Journal of Cardiovascular Pharmacology, 1998, 32, 300-307.	1.9	13
202	Increased Sensitivity to Endothelial Nitric Oxide (NO) Contributes to Arterial Normotension in Mice with Vascular Smooth Muscle-selective Deletion of the Atrial Natriuretic Peptide (ANP) Receptor. Journal of Biological Chemistry, 2003, 278, 17963-17968.	3.4	12
203	Roads to Dysfunction. Circulation Research, 2006, 99, 918-920.	4.5	12
204	Glycolysis and Inflammation: Partners in Crime!. Circulation Research, 2021, 129, 30-32.	4.5	12
205	Endothelium-dependent vasodilatation in Sprague-Dawley rats with postinfarction hypertrophy: Lack of endothelial dysfunction in vitro. Basic Research in Cardiology, 1998, 93, 463-469.	5.9	11
206	The polarity protein Scrib limits atherosclerosis development in mice. Cardiovascular Research, 2019, 115, 1963-1974.	3.8	11
207	Micro-CT Technique Is Well Suited for Documentation of Remodeling Processes in Murine Carotid Arteries. PLoS ONE, 2015, 10, e0130374.	2.5	11
208	Sympathoactivation and rho-kinase-dependent baroreflex function in experimental renovascular hypertension with reduced kidney mass. BMC Physiology, 2014, 14, 4.	3.6	10
209	Vitamin Dâ€™A New Perspective in Treatment of Cerebral Vasospasm. Neurosurgery, 2021, 88, 674-685.	1.1	10
210	Nox4-dependent upregulation of S100A4 after peripheral nerve injury modulates neuropathic pain processing. Free Radical Biology and Medicine, 2021, 168, 155-167.	2.9	9
211	Reactive Oxygen Species Differentially Modulate the Metabolic and Transcriptomic Response of Endothelial Cells. Antioxidants, 2022, 11, 434.	5.1	9
212	Cellular properties of C-terminal KCNH2 long QT syndrome mutations: Description and divergence from clinical phenotypes. Heart Rhythm, 2008, 5, 1159-1167.	0.7	8
213	The NADPH Oxidase Nox2 Mediates Vitamin D-Induced Vascular Regeneration in Male Mice. Endocrinology, 2016, 157, 4032-4040.	2.8	8
214	The histone demethylase Jarid1b mediates angiotensin IIâ€™induced endothelial dysfunction by controlling the 3â€™UTR of soluble epoxide hydrolase. Acta Physiologica, 2019, 225, e13168.	3.8	8
215	ZNF354C is a transcriptional repressor that inhibits endothelial angiogenic sprouting. Scientific Reports, 2020, 10, 19079.	3.3	8
216	Nuclear receptor activation shapes spatial genome organization essential for gene expression control: lessons learned from the vitamin D receptor. Nucleic Acids Research, 2022, 50, 3745-3763.	14.5	8

#	ARTICLE	IF	CITATIONS
217	Polarity Protein Scrib Facilitates Endothelial Inflammatory Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1954-1962.	2.4	7
218	Metabolism Regulates Cellular Functions of Bone Marrow-Derived Cells used for Cardiac Therapy. Stem Cells, 2016, 34, 2236-2248.	3.2	7
219	The hydrogen-peroxide producing NADPH oxidase 4 does not limit neointima development after vascular injury in mice. Redox Biology, 2021, 45, 102050.	9.0	7
220	DNA topoisomerase inhibition with the HIF inhibitor acriflavine promotes transcription of lncRNAs in endothelial cells. Molecular Therapy - Nucleic Acids, 2022, 27, 1023-1035.	5.1	7
221	The basal and stimulated release of the endothelium-derived relaxing factor from isolated pig coronary arteries does not interfere with the vascular release of superoxide. Naunyn-Schmiedeberg's Archives of Pharmacology, 1994, 349, 183-7.	3.0	6
222	The histone demethylase PHF 8 facilitates alternative splicing of the histocompatibility antigen HLA $\alpha$ C. FEBS Letters, 2019, 593, 487-498.	2.8	6
223	Mitofusin 2 Deficiency Causes Pro-Inflammatory Effects in Human Primary Macrophages. Frontiers in Immunology, 2021, 12, 723683.	4.8	6
224	And What About the Endothelium?. Circulation Research, 2004, 95, 122-124.	4.5	5
225	Epigenetic control of microsomal prostaglandin E synthase-1 by HDAC-mediated recruitment of p300. Journal of Lipid Research, 2017, 58, 386-392.	4.2	5
226	Vascular biotransformation of organic nitrates is independent of cytochrome P450 monooxygenases. British Journal of Pharmacology, 2021, 178, 1495-1506.	5.4	5
227	DGK and DZHK position paper on genome editing: basic science applications and future perspective. Basic Research in Cardiology, 2021, 116, 2.	5.9	5
228	Out of Balance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 2121-2122.	2.4	4
229	Novel Faces to Old Friends. Circulation Research, 2006, 98, 303-305.	4.5	4
230	Endothelial Progenitor Cells=EPC=Elemental Pernicious Complexity. Antioxidants and Redox Signaling, 2011, 15, 911-914.	5.4	4
231	NOXious Phosphorylation. Circulation Research, 2014, 115, 898-900.	4.5	4
232	A miR-thless Perspective. Circulation Research, 2010, 107, 12-14.	4.5	3
233	Elevated Heart Rate Triggers Action Potential Alternans and Sudden Death. Translational Study of a Homozygous KCNH2 Mutation. PLoS ONE, 2014, 9, e103150.	2.5	3
234	Loss of Endothelial Cytochrome P450 Reductase Induces Vascular Dysfunction in Mice. Hypertension, 2022, 79, 1216-1226.	2.7	3

#	ARTICLE	IF	CITATIONS
235	Epoxyeicosatrienoic Acid and Prostanoid Crosstalk at the Receptor and Intracellular Signaling Levels to Maintain Vascular Tone. International Journal of Molecular Sciences, 2022, 23, 5939.	4.1	3
236	Avoiding Vicious Circles. Hypertension, 2007, 50, 842-843.	2.7	2
237	A New PIXel in the Puzzle. Hypertension, 2009, 54, 964-965.	2.7	2
238	Do Not Overcharge the System or It Will Explode!. Circulation Research, 2013, 113, 846-848.	4.5	2
239	The interaction between delayed rectifier channel alpha-subunits does not involve hetero-tetramer formation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 973-981.	3.0	2
240	Nox4 Maintains Blood Pressure during Low Sodium Diet. Antioxidants, 2021, 10, 1103.	5.1	2
241	NADPH Oxidases and Blood-Brain Barrier Dysfunction in Stroke. , 2010, , 211-230.		2
242	Response to Pagano et al.. Antioxidants and Redox Signaling, 2015, 23, 1247-1249.	5.4	1
243	A Buttery Taste to Vascular Biology. Circulation Research, 2016, 119, 577-579.	4.5	1
244	Understanding Arteriosclerosis 2.0: Making Sense of Genetic Variants with scATAC. Circulation Research, 2021, 129, 259-261.	4.5	1
245	Experimental uninephrectomy associates with less parasympathetic modulation of heart rate and facilitates sodium-dependent arterial hypertension. PLoS ONE, 2022, 17, e0265086.	2.5	1
246	Cardiovascular pharmacology in the post-blockbuster era. Current Opinion in Pharmacology, 2010, 10, 109-110.	3.5	0
247	Response to the Letter by Schmidt et al Regarding "Nox4 Is a Janus-Faced Reactive Oxygen Species Generating NADPH Oxidase". Circulation Research, 2012, 111, .	4.5	0
248	Response to Sympathoinhibitory Effect of Diltiazem and Prevention of Aneurysm Formation. Hypertension, 2014, 63, e13.	2.7	0
249	Response to Letter Regarding Article, "Vitamin D Promotes Vascular Regeneration". Circulation, 2015, 131, e515-6.	1.6	0
250	Thymosin beta-4x LINC SPAAR to its non-coding function. Cardiovascular Research, 2020, 116, 1927-1928.	3.8	0
251	Is It in the EPIgenome?: Epigenetics Marks at Birth Are Associated With Arterial Stiffness in Children. Hypertension, 2021, 78, 801-803.	2.7	0
252	Europhysiology 2022: bringing together the physiologists of Europe and the World. Pflugers Archiv European Journal of Physiology, 2022, 474, 481-482.	2.8	0