Ralf P Brandes

List of Publications by Year in Descending Order

233 papers	18,086 citations	76 h-index	128 g-index
257 ext. papers	19,967 ext. citations	9 avg, IF	6.54 L-index

#	Paper	IF	Citations
233	DNA topoisomerase inhibition with the HIF inhibitor acriflavine promotes transcription of lncRNAs in endothelial cells.. *Molecular Therapy - Nucleic Acids*, **2022**, 27, 1023-1035	10.7	1
232	Reactive Oxygen Species Differentially Modulate the Metabolic and Transcriptomic Response of Endothelial Cells.. *Antioxidants*, **2022**, 11,	7.1	2
231	Experimental uninephrectomy associates with less parasympathetic modulation of heart rate and facilitates sodium-dependent arterial hypertension.. *PLoS ONE*, **2022**, 17, e0265086	3.7	
230	Nuclear receptor activation shapes spatial genome organization essential for gene expression control: lessons learned from the vitamin D receptor.. *Nucleic Acids Research*, **2022**,	20.1	3
229	Loss of Endothelial Cytochrome P450 Reductase Induces Vascular Dysfunction in Mice.. *Hypertension*, **2022**, HYPERTENSIONAHA12118752	8.5	1
228	Epoxyeicosatrienoic Acid and Prostanoid Crosstalk at the Receptor and Intracellular Signaling Levels to Maintain Vascular Tone. *International Journal of Molecular Sciences*, **2022**, 23, 5939	6.3	
227	Long non-coding RNAs: novel regulators of cellular physiology and function. *Pflugers Archiv European Journal of Physiology*, **2021**, 474, 191	4.6	5
226	Lange nicht-codierende RNAs in der Angiogenese. *BioSpektrum*, **2021**, 27, 146-148	0.1	
225	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,	11.5	5
224	MIR503HG Loss Promotes Endothelial-to-Mesenchymal Transition in Vascular Disease. *Circulation Research*, **2021**, 128, 1173-1190	15.7	7
223	Nox4-dependent upregulation of S100A4 after peripheral nerve injury modulates neuropathic pain processing. *Free Radical Biology and Medicine*, **2021**, 168, 155-167	7.8	1
222	Vitamin D-A New Perspective in Treatment of Cerebral Vasospasm. *Neurosurgery*, **2021**, 88, 674-685	3.2	4
221	Mapping the Endothelial Cell -Sulfhydrome Highlights the Crucial Role of Integrin Sulfhydration in Vascular Function. *Circulation*, **2021**, 143, 935-948	16.7	20
220	Vascular biotransformation of organic nitrates is independent of cytochrome P450 monooxygenases. *British Journal of Pharmacology*, **2021**, 178, 1495-1506	8.6	2
219	A hierarchical regulatory network analysis of the vitamin D induced transcriptome reveals novel regulators and complete VDR dependency in monocytes. *Scientific Reports*, **2021**, 11, 6518	4.9	7
218	Mitofusin 2 Deficiency Causes Pro-Inflammatory Effects in Human Primary Macrophages. *Frontiers in Immunology*, **2021**, 12, 723683	8.4	1
217	The hydrogen-peroxide producing NADPH oxidase 4 does not limit neointima development after vascular injury in mice. *Redox Biology*, **2021**, 45, 102050	11.3	0

216	DGK and DZHK position paper on genome editing: basic science applications and future perspective. *Basic Research in Cardiology*, **2021**, 116, 2	11.8	2
215	ZNF354C is a transcriptional repressor that inhibits endothelial angiogenic sprouting. *Scientific Reports*, **2020**, 10, 19079	4.9	2
214	NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. *Nature Metabolism*, **2020**, 2, 532-546	14.6	4
213	Aging-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. *Nature Communications*, **2020**, 11, 2039	17.4	28
212	Glucose-Stimulated Insulin Secretion Fundamentally Requires HO Signaling by NADPH Oxidase 4. *Diabetes*, **2020**, 69, 1341-1354	0.9	25
211	Shear stress regulates cystathionine γlyase expression to preserve endothelial redox balance and reduce membrane lipid peroxidation. *Redox Biology*, **2020**, 28, 101379	11.3	18
210	The endocannabinoid anandamide has an anti-inflammatory effect on CCL2 expression in vascular smooth muscle cells. *Basic Research in Cardiology*, **2020**, 115, 34	11.8	11
209	Deletion of NoxO1 limits atherosclerosis development in female mice. *Redox Biology*, **2020**, 37, 101713	11.3	3
208	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	9.9	52
207	Pleiotropic effects of laminar flow and statins depend on the Krüppel-like factor-induced lncRNA MANTIS. *European Heart Journal*, **2019**, 40, 2523-2533	9.5	41
206	Tolerizing CTL by Sustained Hepatic PD-L1 Expression Provides a New Therapy Approach in Mouse Sepsis. *Theranostics*, **2019**, 9, 2003-2016	12.1	7
205	The polarity protein Scrib limits atherosclerosis development in mice. *Cardiovascular Research*, **2019**, 115, 1963-1974	9.9	5
204	BIAM switch assay coupled to mass spectrometry identifies novel redox targets of NADPH oxidase 4. *Redox Biology*, **2019**, 21, 101125	11.3	7
203	The histone demethylase PHF8 facilitates alternative splicing of the histocompatibility antigen HLA-G. *FEBS Letters*, **2019**, 593, 487-498	3.8	5
202	Cystathionine γLyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. *Circulation*, **2019**, 139, 101-114	16.7	59
201	The histone demethylase Jarid1b mediates angiotensin II-induced endothelial dysfunction by controlling the 3′UTR of soluble epoxide hydrolase. *Acta Physiologica*, **2019**, 225, e13168	5.6	3
200	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	5.8	12
199	Redox Activation of Nox1 (NADPH Oxidase 1) Involves an Intermolecular Disulfide Bond Between Protein Disulfide Isomerase and p47 in Vascular Smooth Muscle Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 224-236	9.4	15

198	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. *European Respiratory Journal*, **2018**,	13.6	30
197	Both cardiomyocyte and endothelial cell Nox4 mediate protection against hemodynamic overload-induced remodelling. *Cardiovascular Research*, **2018**, 114, 401-408	9.9	36
196	Long noncoding RNA LISPR1 is required for S1P signaling and endothelial cell function. *Journal of Molecular and Cellular Cardiology*, **2018**, 116, 57-68	5.8	26
195	Mitochondrial fragmentation in human macrophages attenuates palmitate-induced inflammatory responses. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2018**, 1863, 433-446	5	10
194	Detection of Hydrogen Peroxide with Fluorescent Dyes. *Antioxidants and Redox Signaling*, **2018**, 29, 585-602	8.4	34
193	Redox Regulation and Noncoding RNAs. *Antioxidants and Redox Signaling*, **2018**, 29, 793-812	8.4	25
192	IL-6 augments IL-4-induced polarization of primary human macrophages through synergy of STAT3, STAT6 and BATF transcription factors. *OncoImmunology*, **2018**, 7, e1494110	7.2	24
191	PAR-3 controls endothelial planar polarity and vascular inflammation under laminar flow. *EMBO Reports*, **2018**, 19,	6.5	17
190	Redox Regulation Beyond ROS: Why ROS Should Not Be Measured as Often. *Circulation Research*, **2018**, 123, 326-328	15.7	16
189	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. *Nature Communications*, **2018**, 9, 2292	17.4	26
188	The NADPH organizers NoxO1 and p47phox are both mediators of diabetes-induced vascular dysfunction in mice. *Redox Biology*, **2018**, 15, 12-21	11.3	28
187	Vascular CXCR4 Limits Atherosclerosis by Maintaining Arterial Integrity: Evidence From Mouse and Human Studies. *Circulation*, **2017**, 136, 388-403	16.7	83
186	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. *Circulation Research*, **2017**, 121, 424-438	15.7	58
185	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. *Circulation*, **2017**, 136, 65-79	16.7	145
184	Epigenetic control of microsomal prostaglandin E synthase-1 by HDAC-mediated recruitment of p300. *Journal of Lipid Research*, **2017**, 58, 386-392	6.3	5
183	NADPH oxidase 4 modulates hepatic responses to lipopolysaccharide mediated by Toll-like receptor-4. *Scientific Reports*, **2017**, 7, 14346	4.9	18
182	Lung Ischaemia-Reperfusion Injury: The Role of Reactive Oxygen Species. *Advances in Experimental Medicine and Biology*, **2017**, 967, 195-225	3.6	13
181	Organizers and activators: Cytosolic Nox proteins impacting on vascular function. *Free Radical Biology and Medicine*, **2017**, 109, 22-32	7.8	41

180	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	7.8	31
179	Biglycan- and Sphingosine Kinase-1 Signaling Crosstalk Regulates the Synthesis of Macrophage Chemoattractants. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	27
178	Estradiol regulates human QT-interval: acceleration of cardiac repolarization by enhanced KCNH2 membrane trafficking. *European Heart Journal*, **2016**, 37, 640-50	9.5	35
177	Unchanged NADPH Oxidase Activity in Nox1-Nox2-Nox4 Triple Knockout Mice: What Do NADPH-Stimulated Chemiluminescence Assays Really Detect?. *Antioxidants and Redox Signaling*, **2016**, 24, 392-9	8.4	39
176	The NADPH Oxidase Nox2 Mediates Vitamin D-Induced Vascular Regeneration in Male Mice. *Endocrinology*, **2016**, 157, 4032-4040	4.8	6
175	The Cytosolic NADPH Oxidase Subunit NoxO1 Promotes an Endothelial Stalk Cell Phenotype. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 1558-65	9.4	16
174	Bimodal role of NADPH oxidases in the regulation of biglycan-triggered IL-1β synthesis. *Matrix Biology*, **2016**, 49, 61-81	11.4	38
173	Metabolism Regulates Cellular Functions of Bone Marrow-Derived Cells used for Cardiac Therapy. *Stem Cells*, **2016**, 34, 2236-48	5.8	4
172	Molecular mechanisms of hypoxia-inducible factor-induced pulmonary arterial smooth muscle cell alterations in pulmonary hypertension. *Journal of Physiology*, **2016**, 594, 1167-77	3.9	37
171	The Histone Demethylase PHF8 Is Essential for Endothelial Cell Migration. *PLoS ONE*, **2016**, 11, e0146645	3.7	17
170	PAFAH1B1 and the lncRNA NONHSAT073641 maintain an angiogenic phenotype in human endothelial cells. *Acta Physiologica*, **2016**, 218, 13-27	5.6	15
169	The Endoplasmic Reticulum Chaperone Calnexin Is a NADPH Oxidase NOX4 Interacting Protein. *Journal of Biological Chemistry*, **2016**, 291, 7045-59	5.4	42
168	Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates eIF2α-mediated stress signaling. *EMBO Journal*, **2016**, 35, 319-34	13	72
167	CRISPR/Cas9-mediated knockout of p22phox leads to loss of Nox1 and Nox4, but not Nox5 activity. *Redox Biology*, **2016**, 9, 287-295	11.3	23
166	Hypoxia-dependent reactive oxygen species signaling in the pulmonary circulation: focus on ion channels. *Antioxidants and Redox Signaling*, **2015**, 22, 537-52	8.4	41
165	Polarity Protein Scrib Facilitates Endothelial Inflammatory Signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1954-62	9.4	5
164	Response to letter regarding article, "Vitamin D promotes vascular regeneration". *Circulation*, **2015**, 131, e515-6	16.7	
163	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	7.8	27

162	The interaction between delayed rectifier channel alpha-subunits does not involve hetero-tetramer formation. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2015**, 388, 973-81	3.4	2
161	Hepatocyte Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 4 Regulates Stress Signaling, Fibrosis, and Insulin Sensitivity During Development of Steatohepatitis in Mice. *Gastroenterology*, **2015**, 149, 468-80.e10	13.3	98
160	The NADPH oxidase Nox4 has anti-atherosclerotic functions. *European Heart Journal*, **2015**, 36, 3447-56	9.5	112
159	NADPH oxidase 4 regulates homocysteine metabolism and protects against acetaminophen-induced liver damage in mice. *Free Radical Biology and Medicine*, **2015**, 89, 918-30	7.8	20
158	Deficient angiogenesis in redox-dead Cys17Ser PKARIIknock-in mice. *Nature Communications*, **2015**, 6, 7920	17.4	36
157	NOX4-dependent Hydrogen peroxide promotes shear stress-induced SHP2 sulfenylation and eNOS activation. *Free Radical Biology and Medicine*, **2015**, 89, 419-30	7.8	31
156	Response to Pagano et al. *Antioxidants and Redox Signaling*, **2015**, 23, 1247-9	8.4	1
155	Analysis of Endothelial Adherence of Bartonella henselae and Acinetobacter baumannii Using a Dynamic Human Ex Vivo Infection Model. *Infection and Immunity*, **2015**, 84, 711-22	3.7	17
154	Reprogramming of myeloid angiogenic cells by Bartonella henselae leads to microenvironmental regulation of pathological angiogenesis. *Cellular Microbiology*, **2015**, 17, 1447-63	3.9	11
153	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1645-52	9.4	24
152	Nicotinamide adenine dinucleotide phosphate oxidase-4-dependent upregulation of nuclear factor erythroid-derived 2-like 2 protects the heart during chronic pressure overload. *Hypertension*, **2015**, 65, 547-53	8.5	49
151	Micro-CT Technique Is Well Suited for Documentation of Remodeling Processes in Murine Carotid Arteries. *PLoS ONE*, **2015**, 10, e0130374	3.7	11
150	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, 1268-85	8.4	67
149	Nox family NADPH oxidases: Molecular mechanisms of activation. *Free Radical Biology and Medicine* , **2014**, 76, 208-26	7.8	417
148	Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2014**, 1843, 2403-13	4.9	30
147	Sympathoactivation and rho-kinase-dependent baroreflex function in experimental renovascular hypertension with reduced kidney mass. *BMC Physiology*, **2014**, 14, 4	0	9
146	Nox2-dependent signaling between macrophages and sensory neurons contributes to neuropathic pain hypersensitivity. *Pain*, **2014**, 155, 2161-70	8	41
145	Redox-mediated signal transduction by cardiovascular Nox NADPH oxidases. *Journal of Molecular and Cellular Cardiology*, **2014**, 73, 70-9	5.8	70

144	Inhalation of the BK(Ca)-opener NS1619 attenuates right ventricular pressure and improves oxygenation in the rat monocrotaline model of pulmonary hypertension. *PLoS ONE*, **2014**, 9, e86636	3.7	15
143	Phenotypic characterization of miR-92a-/- mice reveals an important function of miR-92a in skeletal development. *PLoS ONE*, **2014**, 9, e101153	3.7	20
142	Response to Sympathoinhibitory effect of diltiazem and prevention of aneurysm formation. *Hypertension*, **2014**, 63, e13	8.5	
141	Vitamin D promotes vascular regeneration. *Circulation*, **2014**, 130, 976-86	16.7	82
140	Flotillin-1 facilitates toll-like receptor 3 signaling in human endothelial cells. *Basic Research in Cardiology*, **2014**, 109, 439	11.8	15
139	Stimulation of soluble guanylate cyclase prevents cigarette smoke-induced pulmonary hypertension and emphysema. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 189, 1359-73	10.2	59
138	SYNCRIP-dependent Nox2 mRNA destabilization impairs ROS formation in M2-polarized macrophages. *Antioxidants and Redox Signaling*, **2014**, 21, 2483-97	8.4	24
137	Endothelial dysfunction and hypertension. *Hypertension*, **2014**, 64, 924-8	8.5	141
136	TGF- directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E374-83	11.5	87
135	Nox family NADPH oxidases in mechano-transduction: mechanisms and consequences. *Antioxidants and Redox Signaling*, **2014**, 20, 887-98	8.4	51
134	Elevated heart rate triggers action potential alternans and sudden death. translational study of a homozygous KCNH2 mutation. *PLoS ONE*, **2014**, 9, e103150	3.7	3
133	The polarity protein Scrib is essential for directed endothelial cell migration. *Circulation Research*, **2013**, 112, 924-34	15.7	41
132	L-type calcium channel inhibitor diltiazem prevents aneurysm formation by blood pressure-independent anti-inflammatory effects. *Hypertension*, **2013**, 62, 1098-104	8.5	16
131	Endo-PDI is required for TNF-induced angiogenesis. *Free Radical Biology and Medicine*, **2013**, 65, 1398-1407	7.8	19
130	Function of NADPH oxidase 1 in pulmonary arterial smooth muscle cells after monocrotaline-induced pulmonary vascular remodeling. *Antioxidants and Redox Signaling*, **2013**, 19, 2213-31	8.4	57
129	Which NADPH oxidase isoform is relevant for ischemic stroke? The case for nox 2. *Antioxidants and Redox Signaling*, **2013**, 18, 1400-17	8.4	94
128	Anti-atherosclerotic mechanisms of statin therapy. *Current Opinion in Pharmacology*, **2013**, 13, 260-4	5.1	33
127	Effects of dimethylarginine dimethylaminohydrolase-1 overexpression on the response of the pulmonary vasculature to hypoxia. *American Journal of Respiratory Cell and Molecular Biology*, **2013**, 49, 491-500	5.7	15

126	NADPH oxidase 4 limits bone mass by promoting osteoclastogenesis. *Journal of Clinical Investigation*, **2013**, 123, 4731-8	15.9	108
125	Monoamine oxidases are mediators of endothelial dysfunction in the mouse aorta. *Hypertension*, **2013**, 62, 140-6	8.5	63
124	Activation of Rac-1 and RhoA contributes to podocyte injury in chronic kidney disease. *PLoS ONE*, **2013**, 8, e80328	3.7	60
123	The Nox family of NADPH oxidases: friend or foe of the vascular system?. *Current Hypertension Reports*, **2012**, 14, 70-8	4.7	108
122	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. *Nature Communications*, **2012**, 3, 649	17.4	137
121	Role of Nox4 in murine models of kidney disease. *Free Radical Biology and Medicine*, **2012**, 53, 842-53	7.8	118
120	Nox4 is a protective reactive oxygen species generating vascular NADPH oxidase. *Circulation Research*, **2012**, 110, 1217-25	15.7	452
119	NADPH oxidases as therapeutic targets in ischemic stroke. *Cellular and Molecular Life Sciences*, **2012**, 69, 2345-63	10.3	106
118	Hypoxia induces Kv channel current inhibition by increased NADPH oxidase-derived reactive oxygen species. *Free Radical Biology and Medicine*, **2012**, 52, 1033-42	7.8	60
117	Activation of thromboxane receptor modulates interleukin-1β induced monocyte adhesion--a novel role of Nox1. *Free Radical Biology and Medicine*, **2012**, 52, 1760-6	7.8	11
116	Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. *Free Radical Biology and Medicine*, **2012**, 53, 289-96	7.8	177
115	Role of Src tyrosine kinases in experimental pulmonary hypertension. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 1354-65	9.4	90
114	Leptin potentiates endothelium-dependent relaxation by inducing endothelial expression of neuronal NO synthase. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 1605-12	9.4	44
113	NADPH oxidase-4 maintains neuropathic pain after peripheral nerve injury. *Journal of Neuroscience*, **2012**, 32, 10136-45	6.6	77
112	Hepatocyte growth factor induces a proangiogenic phenotype and mobilizes endothelial progenitor cells by activating Nox2. *Antioxidants and Redox Signaling*, **2011**, 15, 915-23	8.4	35
111	A pirinixic acid derivative (LP105) inhibits murine 5-lipoxygenase activity and attenuates vascular remodelling in a murine model of aortic aneurysm. *British Journal of Pharmacology*, **2011**, 163, 1721-32	8.6	22
110	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. *Nature*, **2011**, 473, 234-8	50.4	298
109	Levosimendan attenuates pulmonary vascular remodeling. *Intensive Care Medicine*, **2011**, 37, 1368-77	14.5	45

108	Soluble epoxide hydrolase limits mechanical hyperalgesia during inflammation. *Molecular Pain*, **2011**, 7, 78	3.4	40
107	Therapeutic efficacy of TBC3711 in monocrotaline-induced pulmonary hypertension. *Respiratory Research*, **2011**, 12, 87	7.3	16
106	Conditional transgenic expression of fibroblast growth factor 9 in the adult mouse heart reduces heart failure mortality after myocardial infarction. *Circulation*, **2011**, 123, 504-14	16.7	48
105	MicroRNA-29 in aortic dilation: implications for aneurysm formation. *Circulation Research*, **2011**, 109, 1115-9	15.7	262
104	The E-loop is involved in hydrogen peroxide formation by the NADPH oxidase Nox4. *Journal of Biological Chemistry*, **2011**, 286, 13304-13	5.4	371
103	Soluble epoxide hydrolase deficiency attenuates neointima formation in the femoral cuff model of hyperlipidemic mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 909-14	9.4	51
102	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, 18121-6	11.5	347
101	Nox activator 1: a potential target for modulation of vascular reactive oxygen species in atherosclerotic arteries. *Circulation*, **2010**, 121, 549-59	16.7	81
100	Vascular functions of NADPH oxidases. *Hypertension*, **2010**, 56, 17-21	8.5	21
99	NADPH oxidase Nox1 contributes to ischemic injury in experimental stroke in mice. *Neurobiology of Disease*, **2010**, 40, 185-92	7.5	76
98	NADPH oxidases in cardiovascular disease. *Free Radical Biology and Medicine*, **2010**, 49, 687-706	7.8	207
97	Inhibition of the soluble epoxide hydrolase promotes albuminuria in mice with progressive renal disease. *PLoS ONE*, **2010**, 5, e11979	3.7	48
96	NADPH Oxidases and Blood-Brain Barrier Dysfunction in Stroke **2010**, 211-230		1
95	Inhibition of the soluble epoxide hydrolase by tyrosine nitration. *Journal of Biological Chemistry*, **2009**, 284, 28156-28163	5.4	24
94	Ncf1 provides a reactive oxygen species-independent negative feedback regulation of TLR9-induced IL-12p70 in murine dendritic cells. *Journal of Immunology*, **2009**, 182, 4183-91	5.3	16
93	Nox4 acts as a switch between differentiation and proliferation in preadipocytes. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 239-45	9.4	196
92	NADPH oxidase Nox2 is required for hypoxia-induced mobilization of endothelial progenitor cells. *Circulation Research*, **2009**, 105, 537-44	15.7	89
91	A new PIXel in the puzzle: how increased vascular pressure induces oxidative stress. *Hypertension*, **2009**, 54, 964-5	8.5	2

90	Identification of structural elements in Nox1 and Nox4 controlling localization and activity. *Antioxidants and Redox Signaling*, **2009**, 11, 1279-87	8.4	112
89	Trafficking-deficient long QT syndrome mutation KCNQ1-T587M confers severe clinical phenotype by impairment of KCNH2 membrane localization: evidence for clinically significant IKr-IKs alpha-subunit interaction. *Heart Rhythm*, **2009**, 6, 1792-801	6.7	31
88	Inhibition of the soluble epoxide hydrolase attenuates monocrotaline-induced pulmonary hypertension in rats. *Journal of Hypertension*, **2009**, 27, 322-31	1.9	50
87	Composition and functions of vascular nicotinamide adenine dinucleotide phosphate oxidases. *Trends in Cardiovascular Medicine*, **2008**, 18, 15-9	6.9	52
86	Regulation of proliferation of skeletal muscle precursor cells by NADPH oxidase. *Antioxidants and Redox Signaling*, **2008**, 10, 559-74	8.4	55
85	CD40 ligand+ microparticles from human atherosclerotic plaques stimulate endothelial proliferation and angiogenesis a potential mechanism for intraplaque neovascularization. *Journal of the American College of Cardiology*, **2008**, 52, 1302-11	15.1	145
84	Cellular properties of C-terminal KCNH2 long QT syndrome mutations: description and divergence from clinical phenotypes. *Heart Rhythm*, **2008**, 5, 1159-67	6.7	4
83	First evidence for a crosstalk between mitochondrial and NADPH oxidase-derived reactive oxygen species in nitroglycerin-triggered vascular dysfunction. *Antioxidants and Redox Signaling*, **2008**, 10, 1435-47	8.4	120
82	Apocynin is not an inhibitor of vascular NADPH oxidases but an antioxidant. *Hypertension*, **2008**, 51, 211-7	8.5	613
81	Activating SIRT1: a new strategy to prevent atherosclerosis?. *Cardiovascular Research*, **2008**, 80, 163-4	9.9	18
80	Differential vascular functions of Nox family NADPH oxidases. *Current Opinion in Lipidology*, **2008**, 19, 513-8	4.4	68
79	NADPH oxidase plays a central role in blood-brain barrier damage in experimental stroke. *Stroke*, **2007**, 38, 3000-6	6.7	326
78	Evidence against a role for NADPH oxidase modulating hepatic vascular tone in cirrhosis. *Gastroenterology*, **2007**, 133, 959-66	13.3	35
77	The fatter the better? Perivascular adipose tissue attenuates vascular contraction through different mechanisms. *British Journal of Pharmacology*, **2007**, 151, 303-4	8.6	19
76	Inactivation of extracellular superoxide dismutase contributes to the development of high-volume hypertension. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 470-7	9.4	43
75	Nox1 mediates basic fibroblast growth factor-induced migration of vascular smooth muscle cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1736-43	9.4	121
74	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, H541-7	5.2	29
73	Noxa1 is a central component of the smooth muscle NADPH oxidase in mice. *Free Radical Biology and Medicine*, **2006**, 41, 193-201	7.8	72

72	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, 1353-60	7.8	67
71	Intracellular localization of RORalpha is isoform and cell line-dependent. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2006**, 1763, 805-14	4.9	14
70	Critical role for p47phox in renin-angiotensin system activation and blood pressure regulation. *Cardiovascular Research*, **2006**, 71, 596-605	9.9	32
69	Nitric oxide down-regulates the expression of the catalytic NADPH oxidase subunit Nox1 in rat renal mesangial cells. *FASEB Journal*, **2006**, 20, 139-41	0.9	54
68	Nebivolol inhibits superoxide formation by NADPH oxidase and endothelial dysfunction in angiotensin II-treated rats. *Hypertension*, **2006**, 48, 677-84	8.5	164
67	Novel faces to old friends: a central role of inducible NO synthase for progenitor cell recruitment and a new antiinflammatory mechanisms of statins. *Circulation Research*, **2006**, 98, 303-5	15.7	4
66	Ex vivo pretreatment of bone marrow mononuclear cells with endothelial NO synthase enhancer AVE9488 enhances their functional activity for cell therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14537-41	11.5	187
65	NADPH oxidase-derived overproduction of reactive oxygen species impairs postischemic neovascularization in mice with type 1 diabetes. *American Journal of Pathology*, **2006**, 169, 719-28	5.8	141
64	Role of reactive oxygen species and gp91phox in endothelial dysfunction of pulmonary arteries induced by chronic hypoxia. *British Journal of Pharmacology*, **2006**, 148, 714-23	8.6	112
63	Pivotal role of xanthine oxidase in the initiation of tubulointerstitial renal injury in rats with hyperlipidemia. *Kidney International*, **2006**, 69, 481-7	9.9	15
62	Left ventricular remodeling after myocardial infarction in mice with targeted deletion of the NADPH oxidase subunit gp91PHOX. *Basic Research in Cardiology*, **2006**, 101, 127-32	11.8	45
61	Statin-mediated inhibition of Rho: only to get more NO?. *Circulation Research*, **2005**, 96, 927-9	15.7	17
60	Regulation of NAD(P)H oxidase by associated protein disulfide isomerase in vascular smooth muscle cells. *Journal of Biological Chemistry*, **2005**, 280, 40813-9	5.4	156
59	Direct detection of reactive oxygen species ex vivo. *Kidney International*, **2005**, 67, 1662-4	9.9	29
58	Vascular NADPH oxidases: molecular mechanisms of activation. *Cardiovascular Research*, **2005**, 65, 16-27	9.9	299
57	Oxidized low-density lipoprotein increases superoxide production by endothelial nitric oxide synthase by inhibiting PKCalpha. *Cardiovascular Research*, **2005**, 65, 897-906	9.9	90
56	Cell-to-cell connection of endothelial progenitor cells with cardiac myocytes by nanotubes: a novel mechanism for cell fate changes?. *Circulation Research*, **2005**, 96, 1039-41	15.7	246
55	Soluble epoxide hydrolase is a main effector of angiotensin II-induced hypertension. *Hypertension*, **2005**, 45, 759-65	8.5	155

54	Endothelial aging. *Cardiovascular Research*, **2005**, 66, 286-94	9.9	427
53	p47phox-dependent NADPH oxidase regulates flow-induced vascular remodeling. *Circulation Research*, **2005**, 97, 533-40	15.7	188
52	Roles of reactive oxygen species in angiopoietin-1/tie-2 receptor signaling. *FASEB Journal*, **2005**, 19, 1728-30	8.9	99
51	Non-canonical Wnt signaling enhances differentiation of human circulating progenitor cells to cardiomyogenic cells. *Journal of Biological Chemistry*, **2005**, 280, 16838-42	5.4	109
50	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, 45935-41	5.4	415
49	Role of podocytes for reversal of glomerulosclerosis and proteinuria in the aging kidney after endothelin inhibition. *Hypertension*, **2004**, 44, 974-81	8.5	119
48	Peroxisome proliferator-activated receptor alpha induces NADPH oxidase activity in macrophages, leading to the generation of LDL with PPAR-alpha activation properties. *Circulation Research*, **2004**, 95, 1174-82	15.7	96
47	Angiotensin-converting enzyme is involved in outside-in signaling in endothelial cells. *Circulation Research*, **2004**, 94, 60-7	15.7	108
46	gp91phox-containing NADPH oxidase mediates endothelial dysfunction in renovascular hypertension. *Circulation*, **2004**, 109, 1795-801	16.7	226
45	And what about the endothelium? On the predominance of cerebral superoxide formation for angiotensin II-induced systemic hypertension. *Circulation Research*, **2004**, 95, 122-4	15.7	2
44	Role of p22phox in angiotensin II and platelet-derived growth factor AA induced activator protein 1 activation in vascular smooth muscle cells. *Journal of Molecular Medicine*, **2004**, 82, 31-8	5.5	25
43	Analysis of dichlorodihydrofluorescein and dihydrocalcein as probes for the detection of intracellular reactive oxygen species. *Free Radical Research*, **2004**, 38, 1257-67	4	111
42	Antioxidative stress-associated genes in circulating progenitor cells: evidence for enhanced resistance against oxidative stress. *Blood*, **2004**, 104, 3591-7	2.2	286
41	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, 17963-8	5.4	12
40	Differential effect of p47phox and gp91phox deficiency on the course of Pneumococcal Meningitis. *Infection and Immunity*, **2003**, 71, 4087-92	3.7	22
39	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	0.9	73
38	Extracellular superoxide dismutase is a major determinant of nitric oxide bioavailability: in vivo and ex vivo evidence from ecSOD-deficient mice. *Circulation Research*, **2003**, 93, 622-9	15.7	203
37	Out of balance: a role of impaired superoxide dismutase activity for vascular constrictive remodeling after angioplasty. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2003**, 23, 2121-2	9.4	2

36	Hydrogen peroxide triggers nuclear export of telomerase reverse transcriptase via Src kinase family-dependent phosphorylation of tyrosine 707. *Molecular and Cellular Biology*, **2003**, 23, 4598-610	4.8	188
35	AT1 receptor agonistic antibodies from preeclamptic patients stimulate NADPH oxidase. *Circulation*, **2003**, 107, 1632-9	16.7	271
34	Aged spontaneously hypertensive rats exhibit a selective loss of EDHF-mediated relaxation in the renal artery. *Hypertension*, **2003**, 42, 562-8	8.5	71
33	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, 1794-800	9.4	40
32	Hyperthyroidism enhances endothelium-dependent relaxation in the rat renal artery. *Cardiovascular Research*, **2003**, 59, 181-8	9.9	32
31	Transdifferentiation of blood-derived human adult endothelial progenitor cells into functionally active cardiomyocytes. *Circulation*, **2003**, 107, 1024-32	16.7	472
30	Role of NADPH oxidases in the control of vascular gene expression. *Antioxidants and Redox Signaling*, **2003**, 5, 803-11	8.4	52
29	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, 645-50	8.5	59
28	The vascular NADPH oxidase subunit p47phox is involved in redox-mediated gene expression. *Free Radical Biology and Medicine*, **2002**, 32, 1116-22	7.8	83
27	NADPH oxidase mediates tissue factor-dependent surface procoagulant activity by thrombin in human vascular smooth muscle cells. *Circulation*, **2002**, 105, 2030-6	16.7	96
26	Dynamic modulation of interendothelial gap junctional communication by 11,12-epoxyeicosatrienoic acid. *Circulation Research*, **2002**, 90, 800-6	15.7	94
25	Withdrawal of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors elicits oxidative stress and induces endothelial dysfunction in mice. *Circulation Research*, **2002**, 91, 173-9	15.7	151
24	Thrombin activates the hypoxia-inducible factor-1 signaling pathway in vascular smooth muscle cells: Role of the p22(phox)-containing NADPH oxidase. *Circulation Research*, **2001**, 89, 47-54	15.7	362
23	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	15.7	371
22	Oxidant stress in hyperlipidemia-induced renal damage. *American Journal of Physiology - Renal Physiology*, **2000**, 278, F63-74	4.3	96
21	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, 2370-2	0.9	82
20	Increased nitrovasodilator sensitivity in endothelial nitric oxide synthase knockout mice: role of soluble guanylyl cyclase. *Hypertension*, **2000**, 35, 231-6	8.5	123
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. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 9747-52	11.5	230

18	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	15.7	517
17	L-arginine supplementation in hypercholesterolemic rabbits normalizes leukocyte adhesion to non-endothelial matrix. *Life Sciences*, **2000**, 66, 1519-24	6.8	16
16	Oxidative stress and expression of p22phox are involved in the up-regulation of tissue factor in vascular smooth muscle cells in response to activated platelets. *FASEB Journal*, **2000**, 14, 1518-1528	0.9	81
15	Role of increased production of superoxide anions by NAD(P)H oxidase and xanthine oxidase in prolonged endotoxemia. *Hypertension*, **1999**, 33, 1243-9	8.5	110
14	Lovastatin maintains nitric oxide--but not EDHF-mediated endothelium-dependent relaxation in the hypercholesterolemic rabbit carotid artery. *Atherosclerosis*, **1999**, 142, 97-104	3.1	20
13	Role of xanthine oxidase in passive Heymann nephritis in rats. *Journal of the American Society of Nephrology: JASN*, **1999**, 10, 538-44	12.7	20
12	Antioxidant-oxidant balance in the glomerulus and proximal tubule of the rat kidney. *Journal of Physiology*, **1998**, 509 (Pt 2), 599-606	3.9	35
11	Endothelium-dependent vasodilatation in Sprague-Dawley rats with postinfarction hypertrophy: lack of endothelial dysfunction in vitro. *Basic Research in Cardiology*, **1998**, 93, 463-9	11.8	11
10	Dietary L-arginine and alpha-tocopherol reduce vascular oxidative stress and preserve endothelial function in hypercholesterolemic rabbits via different mechanisms. *Atherosclerosis*, **1998**, 141, 31-43	3.1	96
9	Glucocorticoids inhibit superoxide anion production and p22 phox mRNA expression in human aortic smooth muscle cells. *Hypertension*, **1998**, 32, 1083-8	8.5	80
8	Dietary L-arginine normalizes endothelin-induced vascular contractions in cholesterol-fed rabbits. *Journal of Cardiovascular Pharmacology*, **1998**, 32, 300-7	3.1	13
7	N(G)-nitro-L-arginine- and indomethacin-resistant endothelium-dependent relaxation in the rabbit renal artery: effect of hypercholesterolemia. *Atherosclerosis*, **1997**, 135, 49-55	3.1	61
6	Gender differences in the generation of superoxide anions in the rat aorta. *Life Sciences*, **1997**, 60, 391-66.8		62
5	Dietary L-arginine reduces the progression of atherosclerosis in cholesterol-fed rabbits: comparison with lovastatin. *Circulation*, **1997**, 96, 1282-90	16.7	165
4	Anatomic heterogeneity of vascular aging: role of nitric oxide and endothelin. *Hypertension*, **1997**, 30, 817-24	8.5	156
3	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-Schmiedebergs Archives of Pharmacology*, **1994**, 349, 183-7	3.4	5
2	Vascular release of superoxide radicals is enhanced in hypercholesterolemic rabbits. *Journal of Cardiovascular Pharmacology*, **1994**, 24, 994-8	3.1	120
1	Hydrogen peroxide formation by Nox4 limits malignant transformation		7