Francis J Miller Jr

List of Publications by Year
in descending order

97 papers	6,534 citations	57758 44 h-index	64796 79 g-index
100 all docs	100 docs citations	100 times ranked	8898 citing authors

#	Article	IF	Citations
1	Drebrin attenuates atherosclerosis by limiting smooth muscle cell transdifferentiation. Cardiovascular Research, 2022, 118, 772-784.	3.8	8
2	Light sheet fluorescence microscopy as a new method for unbiased three-dimensional analysis of vascular injury. Cardiovascular Research, 2021, 117, 520-532.	3.8	18
3	Outside-In Signaling by Adventitial Fibroblasts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 711-713.	2.4	3
4	Hypertension and Mitochondrial Oxidative Stress Revisited. Circulation Research, 2020, 126, 453-455.	4.5	15
5	Delivery of Cell-Specific Aptamers to the Arterial Wall with an Occlusion Perfusion Catheter. Molecular Therapy - Nucleic Acids, 2019, 16, 360-366.	5.1	10
6	Nox2 NADPH oxidase is dispensable for platelet activation or arterial thrombosis in mice. Blood Advances, 2019, 3, 1272-1284.	5.2	34
7	RNA inhibitors of nuclear proteins responsible for multiple organ dysfunction syndrome. Nature Communications, 2019, 10, 116.	12.8	11
8	Redox Activation of Nox1 (NADPH Oxidase 1) Involves an Intermolecular Disulfide Bond Between Protein Disulfide Isomerase and p47 ^{phox} in Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 224-236.	2.4	25
9	Effect of Circulating EGFâ€like Ligands on NADPH Oxidase Expression in Vascular Cells. FASEB Journal, 2019, 33, 679.16.	0.5	0
10	Expression of Nox4 NADPH Oxidase Splice Variants Generate Hydrogen Peroxide and Modify the Cell Cycle. FASEB Journal, 2019, 33, 815.11.	0.5	1
11	Drebrin regulates angiotensin II-induced aortic remodelling. Cardiovascular Research, 2018, 114, 1806-1815.	3.8	9
12	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. Circulation, 2017, 136, 65-79.	1.6	196
13	Nox1Âin cardiovascular diseases: regulation and pathophysiology. Clinical Science, 2016, 130, 151-165.	4.3	61
14	Smooth Muscle Cellâ€“targeted RNA Aptamer Inhibits Neointimal Formation. Molecular Therapy, 2016, 24, 779-787.	8.2	26
15	61. Vascular Smooth Muscle Cell RNA Aptamers for the Treatment of Cardiovascular Disease. Molecular Therapy, 2015, 23, S27.	8.2	1
16	Nox4 NADPH oxidase: emerging from the veil of darkness. European Heart Journal, 2015, 36, 3457-3459.	2.2	5
17	Chemiluminescence and the Nox1-Nox2-Nox4 Triple Knockout. Antioxidants and Redox Signaling, 2015, 23, 1246-1247.	5.4	1
18	Cell-Internalization SELEX: Method for Identifying Cell-Internalizing RNA Aptamers for Delivering siRNAs to Target Cells. Methods in Molecular Biology, 2015, 1218, 187-199.	0.9	63

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19	Canonical Wnt Signaling Induces Vascular Endothelial Dysfunction via p66 ^{Shc} -Regulated Reactive Oxygen Species. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2301-2309.	2.4	64
20	Role of NADPH Oxidase and Xanthine Oxidase in Mediating Inducible VT/VF and Triggered Activity in a Canine Model of Myocardial Ischemia. International Journal of Molecular Sciences, 2014, 15, 20079-20100.	4.1	4
21	Oxidative Stress in Cardiovascular Disease. International Journal of Molecular Sciences, 2014, 15, 6002-6008.	4.1	102
22	Endothelial Dysfunction in Chronic Inflammatory Diseases. International Journal of Molecular Sciences, 2014, 15, 11324-11349.	4.1	340
23	Phosphorylation of Nox1 Regulates Association With NoxA1 Activation Domain. Circulation Research, 2014, 115, 911-918.	4.5	31
24	Nox1 NADPH oxidase is necessary for late but not early myocardial ischaemic preconditioning. Cardiovascular Research, 2014, 102, 79-87.	3.8	22
25	Nox4 NADPH oxidase contributes to smooth muscle cell phenotypes associated with unstable atherosclerotic plaques. Redox Biology, 2014, 2, 642-650.	9.0	52
26	Extracellular but not cytosolic superoxide dismutase protects against oxidant-mediated endothelial dysfunction. Redox Biology, 2013, 1, 292-296.	9.0	20
27	NOX4 mediates cytoprotective autophagy induced by the EGFR inhibitor erlotinib in head and neck cancer cells. Toxicology and Applied Pharmacology, 2013, 272, 736-745.	2.8	54
28	Opportunity Nox: The Future of NADPH Oxidases as Therapeutic Targets in Cardiovascular Disease. Cardiovascular Therapeutics, 2013, 31, 125-137.	2.5	63
29	Nox1 Endocytosis and Activation Are Regulated by Intracellular Hydrophobic Motifs. Free Radical Biology and Medicine, 2013, 65, S83.	2.9	0
30	The Epidermal Growth Factor Receptor and Its Ligands in Cardiovascular Disease. International Journal of Molecular Sciences, 2013, 14, 20597-20613.	4.1	114
31	Inhibition of NADPH Oxidase by Apocynin Attenuates Progression of Atherosclerosis. International Journal of Molecular Sciences, 2013, 14, 17017-17028.	4.1	47
32	CaMKII Is Essential for the Proasthmatic Effects of Oxidation. Science Translational Medicine, 2013, 5, 195ra97.	12.4	54
33	Hydrogen Peroxide Promotes Aging-Related Platelet Hyperactivation and Thrombosis. Circulation, 2013, 127, 1308-1316.	1.6	150
34	NOX2 Protects against Prolonged Inflammation, Lung Injury, and Mortality following Systemic Insults. Journal of Innate Immunity, 2013, 5, 565-580.	3.8	36
35	The Multifunctional Ca2+/Calmodulin-Dependent Kinase IIÎ´ (CaMKIIÎ´) Regulates Arteriogenesis in a Mouse Model of Flow-Mediated Remodeling. PLoS ONE, 2013, 8, e71550.	2.5	20
36	Reactive oxygen species: from health to disease. Swiss Medical Weekly, 2012, 142, w13659.	1.6	611

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37	Î²â€Adrenergic receptor antagonists ameliorate myocyte Tâ€tubule remodeling following myocardial infarction. FASEB Journal, 2012, 26, 2531-2537.	0.5	63
38	Increased Expression of Nox1 in Neointimal Smooth Muscle Cells Promotes Activation of Matrix Metalloproteinase-9. Journal of Vascular Research, 2012, 49, 242-248.	1.4	36
39	Increased Epidermal Growth Factorâ€"Like Ligands Are Associated With Elevated Vascular Nicotinamide Adenine Dinucleotide Phosphate Oxidase in a Primate Model of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2452-2460.	2.4	45
40	Nox1 transactivation of epidermal growth factor receptor promotes N-cadherin shedding and smooth muscle cell migration. Cardiovascular Research, 2012, 93, 406-413.	3.8	63
41	Rapid Identification of Cell-Specific, Internalizing RNA Aptamers with Bioinformatics Analyses of a Cell-Based Aptamer Selection. PLoS ONE, 2012, 7, e43836.	2.5	103
42	Was the role of statins in slowing the progression of abdominal aortic aneurysms underestimated?. American Heart Journal, 2011, 161, e29.	2.7	0
43	Role for Nox1 NADPH oxidase in atherosclerosis. Atherosclerosis, 2011, 216, 321-326.	0.8	124
44	Statin Therapy Reduces Growth of Abdominal Aortic Aneurysms. Journal of Investigative Medicine, 2011, 59, 1239-1243.	1.6	51
45	Any questions?. EMBO Reports, 2011, 12, 202-205.	4.5	0
46	Glutathione peroxidase-deficient smooth muscle cells cause paracrine activation of normal smooth muscle cells via cyclophilin A. Vascular Pharmacology, 2011, 55, 143-148.	2.1	13
47	Activation of NADPH Oxidase 1 Increases Intracellular Calcium and Migration of Smooth Muscle Cells. Hypertension, 2011, 58, 446-453.	2.7	45
48	Erlotinib-Mediated Inhibition of EGFR Signaling Induces Metabolic Oxidative Stress through NOX4. Cancer Research, 2011, 71, 3932-3940.	0.9	79
49	A Critical Role for Chloride Channel-3 (ClC-3) in Smooth Muscle Cell Activation and Neointima Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 345-351.	2.4	47
50	Statin therapy reduces growth of abdominal aortic aneurysms. Journal of Investigative Medicine, 2011, 59, 1239-43.	1.6	16
51	An Oxidized Extracellular Oxidation-Reduction State Increases Nox1 Expression and Proliferation in Vascular Smooth Muscle Cells Via Epidermal Growth Factor Receptor Activation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2234-2241.	2.4	45
52	Activation of Swelling-activated Chloride Current by Tumor Necrosis Factor-Î± Requires ClC-3-dependent Endosomal Reactive Oxygen Production. Journal of Biological Chemistry, 2010, 285, 22864-22873.	3.4	58
53	A Differential Role for Endocytosis in Receptor-Mediated Activation of Nox1. Antioxidants and Redox Signaling, 2010, 12, 583-593.	5.4	69
54	NADPH Oxidase 4. Circulation Research, 2009, 105, 209-210.	4.5	13

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55	Electrophysiology of Reactive Oxygen Production in Signaling Endosomes. Antioxidants and Redox Signaling, 2009, 11, 1335-1347.	5.4	46
56	Inhibition of Apoptotic Signaling and Neointimal Hyperplasia by Tempol and Nitric Oxide Synthase following Vascular Injury. Journal of Vascular Research, 2009, 46, 109-118.	1.4	17
57	Free radical scavenger specifically prevents ischemic focal ventricular tachycardia. Heart Rhythm, 2009, 6, 530-536.	0.7	9
58	Coronary Constriction to Angiotensin II Is Enhanced by Endothelial Superoxide Production in Sheep Programmed by Dexamethasone. Pediatric Research, 2008, 63, 370-374.	2.3	10
59	Endothelial Superoxide Production Is Altered in Sheep Programmed by Early Gestation Dexamethasone Exposure. Neonatology, 2008, 93, 19-27.	2.0	22
60	Intracellular Protein Aggregation Is a Proximal Trigger of Cardiomyocyte Autophagy. Circulation, 2008, 117, 3070-3078.	1.6	218
61	ClCâ€3 anion current is required for superoxide production in early endosomes and subsequent NFâ€•Îº B activation by TNF Î±. FASEB Journal, 2008, 22, 937.17.	0.5	0
62	Increased Plasma Oxidized Phospholipid:Apolipoprotein B-100 Ratio With Concomitant Depletion of Oxidized Phospholipids From Atherosclerotic Lesions After Dietary Lipid-Lowering. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 175-181.	2.4	78
63	Cytokine Activation of Nuclear Factor ÎºB in Vascular Smooth Muscle Cells Requires Signaling Endosomes Containing Nox1 and ClC-3. Circulation Research, 2007, 101, 663-671.	4.5	196
64	Effect of oxidative stress on apoptosis and regulation of Bax and Bclâ€xL in development of intimal thickening of balloonâ€injured rat carotid artery. FASEB Journal, 2007, 21, A1343.	0.5	1
65	Deletion of p47 phox Attenuates Angiotensin IIâ€“Induced Abdominal Aortic Aneurysm Formation in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2006, 114, 404-413.	1.6	189
66	Early gestation dexamethasone programs enhanced postnatal ovine coronary artery vascular reactivity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R46-R53.	1.8	36
67	Vitamin E Inhibits Abdominal Aortic Aneurysm Formation in Angiotensin IIâ€“Infused Apolipoprotein Eâ€“Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1671-1677.	2.4	165
68	Regulation of Endotoxin-Induced Proinflammatory Activation in Human Coronary Artery Cells: Expression of Functional Membrane-Bound CD14 by Human Coronary Artery Smooth Muscle Cells. Journal of Immunology, 2004, 173, 1336-1343.	0.8	83
69	Erratum to â€œThe nitric oxide synthase inhibitor N. Resuscitation, 2004, 60, 349.	3.0	0
70	The nitric oxide synthase inhibitor NG-nitro-l-arginine decreases defibrillation-induced free radical generation. Resuscitation, 2004, 60, 351-358.	3.0	6
71	Activation of NAD(P)H oxidase by lipid hydroperoxides: mechanism of oxidant-mediated smooth muscle cytotoxicity. Free Radical Biology and Medicine, 2003, 34, 937-946.	2.9	41
72	The nitric oxide synthase inhibitor NG-nitro-l-arginine decreases defibrillation-induced free radical generation. Resuscitation, 2003, 57, 101-108.	3.0	3

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73	The nitric oxide donor S-nitroso-N-acetylpenicillamine (SNAP) increases free radical generation and degrades left ventricular function after myocardial ischemiaâ€“reperfusion. Resuscitation, 2003, 59, 345-352.	3.0	16
74	gp91phox Contributes to NADPH oxidase activity in aortic fibroblasts but not smooth muscle cells. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2284-H2289.	3.2	71
75	Reactive oxygen species mediate arachidonic acid-induced dilation in porcine coronary microvessels. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2309-H2315.	3.2	45
76	Low-Level Endotoxin Induces Potent Inflammatory Activation of Human Blood Vessels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1576-1582.	2.4	111
77	Oxidative Stress in Human Abdominal Aortic Aneurysms. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 560-565.	2.4	241
78	Aortic Aneurysms. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1948-1949.	2.4	19
79	Regression of Atherosclerosis in Monkeys Reduces Vascular Superoxide Levels. Circulation Research, 2002, 90, 277-283.	4.5	79
80	Anticoagulant Responses to Thrombin Are Enhanced During Regression of Atherosclerosis in Monkeys. Circulation, 2002, 106, 842-846.	1.6	22
81	Functional Evaluation of Nonphagocytic NAD(P)H Oxidases. Methods in Enzymology, 2002, 353, 220-233.	1.0	45
82	Antioxidant therapy for atherosclerotic vascular disease: the promise and the pitfalls. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H797-H802.	3.2	29
83	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
84	Nitric oxide synthase inhibitors decrease coronary sinus-free radical concentration and ameliorate myocardial stunning in an ischemia-reperfusion model. Journal of the American College of Cardiology, 2001, 38, 546-554.	2.8	55
85	Calcium-Activated Potassium Channels Mask Vascular Dysfunction Associated with Oxidized LDL Exposure in Rabbit Aorta.. International Heart Journal, 2001, 42, 317-326.	0.6	2
86	Adventitial Fibroblasts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 722-723.	2.4	14
87	H2O2-induced Oâ¨²2Production by a Non-phagocytic NAD(P)H Oxidase Causes Oxidant Injury. Journal of Biological Chemistry, 2001, 276, 29251-29256.	3.4	236
88	Enhanced H ₂ O ₂ -Induced Cytotoxicity in â€œEpithelioidâ€•Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1473-1479.	2.4	39
89	Gene Transfer of Endothelial Nitric Oxide Synthase Improves Relaxation of Carotid Arteries From Diabetic Rabbits. Circulation, 2000, 101, 1027-1033.	1.6	124
90	AIF-1 in the Activated Smooth Muscle Cell. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1701-1703.	2.4	1

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91	Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin IIâ€“Induced Endothelial Dysfunction. Hypertension, 2000, 35, 595-601.	2.7	71
92	Overexpression of Human Catalase Inhibits Proliferation and Promotes Apoptosis in Vascular Smooth Muscle Cells. Circulation Research, 1999, 85, 524-533.	4.5	201
93	Superoxide Production in Vascular Smooth Muscle Contributes to Oxidative Stress and Impaired Relaxation in Atherosclerosis. Circulation Research, 1998, 82, 1298-1305.	4.5	597
94	Pharmacologic activation of the human coronary microcirculation in vitro: endothelium-dependent dilation and differential responses to acetylcholine. Cardiovascular Research, 1998, 38, 744-750.	3.8	51
95	Myogenic constriction of human coronary arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 1997, 273, H257-H264.	3.2	71
96	Effect of brief myocardial ischemia on sympathetic coronary vasoconstriction.. Circulation Research, 1992, 71, 960-969.	4.5	32
97	Activation in the region of parabrachial nucleus elicits neurogenically mediated coronary vasoconstriction. American Journal of Physiology - Heart and Circulatory Physiology, 1991, 261, H1585-H1596.	3.2	6