

Francis J Miller Jr

List of Publications by Year in descending order

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97
papers

6,534
citations

57758

44
h-index

64796

79
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100
all docs

100
docs citations

100
times ranked

8898
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Reactive oxygen species: from health to disease. <i>Swiss Medical Weekly</i> , 2012, 142, w13659. | 1.6 | 611 |
| 2 | Superoxide Production in Vascular Smooth Muscle Contributes to Oxidative Stress and Impaired Relaxation in Atherosclerosis. <i>Circulation Research</i> , 1998, 82, 1298-1305. | 4.5 | 597 |
| 3 | Endothelial Dysfunction in Chronic Inflammatory Diseases. <i>International Journal of Molecular Sciences</i> , 2014, 15, 11324-11349. | 4.1 | 340 |
| 4 | Oxidative Stress in Human Abdominal Aortic Aneurysms. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 560-565. | 2.4 | 241 |
| 5 | H ₂ O ₂ -induced O ₂ ^{•-} Production by a Non-phagocytic NAD(P)H Oxidase Causes Oxidant Injury. <i>Journal of Biological Chemistry</i> , 2001, 276, 29251-29256. | 3.4 | 236 |
| 6 | Intracellular Protein Aggregation Is a Proximal Trigger of Cardiomyocyte Autophagy. <i>Circulation</i> , 2008, 117, 3070-3078. | 1.6 | 218 |
| 7 | Overexpression of Human Catalase Inhibits Proliferation and Promotes Apoptosis in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 1999, 85, 524-533. | 4.5 | 201 |
| 8 | Cytokine Activation of Nuclear Factor κ B in Vascular Smooth Muscle Cells Requires Signaling Endosomes Containing Nox1 and Clc-3. <i>Circulation Research</i> , 2007, 101, 663-671. | 4.5 | 196 |
| 9 | Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. <i>Circulation</i> , 2017, 136, 65-79. | 1.6 | 196 |
| 10 | Deletion of p47 phox Attenuates Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Apolipoprotein E-Deficient Mice. <i>Circulation</i> , 2006, 114, 404-413. | 1.6 | 189 |
| 11 | Vitamin E Inhibits Abdominal Aortic Aneurysm Formation in Angiotensin II-Infused Apolipoprotein E-Deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 1671-1677. | 2.4 | 165 |
| 12 | Hydrogen Peroxide Promotes Aging-Related Platelet Hyperactivation and Thrombosis. <i>Circulation</i> , 2013, 127, 1308-1316. | 1.6 | 150 |
| 13 | Gene Transfer of Endothelial Nitric Oxide Synthase Improves Relaxation of Carotid Arteries From Diabetic Rabbits. <i>Circulation</i> , 2000, 101, 1027-1033. | 1.6 | 124 |
| 14 | Role for Nox1 NADPH oxidase in atherosclerosis. <i>Atherosclerosis</i> , 2011, 216, 321-326. | 0.8 | 124 |
| 15 | The Epidermal Growth Factor Receptor and Its Ligands in Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2013, 14, 20597-20613. | 4.1 | 114 |
| 16 | Low-Level Endotoxin Induces Potent Inflammatory Activation of Human Blood Vessels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 1576-1582. | 2.4 | 111 |
| 17 | Rapid Identification of Cell-Specific, Internalizing RNA Aptamers with Bioinformatics Analyses of a Cell-Based Aptamer Selection. <i>PLoS ONE</i> , 2012, 7, e43836. | 2.5 | 103 |
| 18 | Oxidative Stress in Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2014, 15, 6002-6008. | 4.1 | 102 |

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|----|--|-----|-----------|
| 19 | The vascular NADPH oxidase subunit p47phox is involved in redox-mediated gene expression. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1116-1122. | 2.9 | 90 |
| 20 | Regulation of Endotoxin-Induced Proinflammatory Activation in Human Coronary Artery Cells: Expression of Functional Membrane-Bound CD14 by Human Coronary Artery Smooth Muscle Cells. <i>Journal of Immunology</i> , 2004, 173, 1336-1343. | 0.8 | 83 |
| 21 | Regression of Atherosclerosis in Monkeys Reduces Vascular Superoxide Levels. <i>Circulation Research</i> , 2002, 90, 277-283. | 4.5 | 79 |
| 22 | Erlotinib-Mediated Inhibition of EGFR Signaling Induces Metabolic Oxidative Stress through NOX4. <i>Cancer Research</i> , 2011, 71, 3932-3940. | 0.9 | 79 |
| 23 | Increased Plasma Oxidized Phospholipid:Apolipoprotein B-100 Ratio With Concomitant Depletion of Oxidized Phospholipids From Atherosclerotic Lesions After Dietary Lipid-Lowering. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 175-181. | 2.4 | 78 |
| 24 | Myogenic constriction of human coronary arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H257-H264. | 3.2 | 71 |
| 25 | Gene Transfer of Endothelial Nitric Oxide Synthase Reduces Angiotensin II-Induced Endothelial Dysfunction. <i>Hypertension</i> , 2000, 35, 595-601. | 2.7 | 71 |
| 26 | gp91phox Contributes to NADPH oxidase activity in aortic fibroblasts but not smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2284-H2289. | 3.2 | 71 |
| 27 | A Differential Role for Endocytosis in Receptor-Mediated Activation of Nox1. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 583-593. | 5.4 | 69 |
| 28 | Canonical Wnt Signaling Induces Vascular Endothelial Dysfunction via p66 ^{Shc} -Regulated Reactive Oxygen Species. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2301-2309. | 2.4 | 64 |
| 29 | Adrenergic receptor antagonists ameliorate myocyte tubule remodeling following myocardial infarction. <i>FASEB Journal</i> , 2012, 26, 2531-2537. | 0.5 | 63 |
| 30 | Nox1 transactivation of epidermal growth factor receptor promotes N-cadherin shedding and smooth muscle cell migration. <i>Cardiovascular Research</i> , 2012, 93, 406-413. | 3.8 | 63 |
| 31 | Opportunity Nox: The Future of NADPH Oxidases as Therapeutic Targets in Cardiovascular Disease. <i>Cardiovascular Therapeutics</i> , 2013, 31, 125-137. | 2.5 | 63 |
| 32 | Cell-Internalization SELEX: Method for Identifying Cell-Internalizing RNA Aptamers for Delivering siRNAs to Target Cells. <i>Methods in Molecular Biology</i> , 2015, 1218, 187-199. | 0.9 | 63 |
| 33 | Nox1 in cardiovascular diseases: regulation and pathophysiology. <i>Clinical Science</i> , 2016, 130, 151-165. | 4.3 | 61 |
| 34 | Activation of Swelling-activated Chloride Current by Tumor Necrosis Factor- α Requires ClC-3-dependent Endosomal Reactive Oxygen Production. <i>Journal of Biological Chemistry</i> , 2010, 285, 22864-22873. | 3.4 | 58 |
| 35 | Nitric oxide synthase inhibitors decrease coronary sinus-free radical concentration and ameliorate myocardial stunning in an ischemia-reperfusion model. <i>Journal of the American College of Cardiology</i> , 2001, 38, 546-554. | 2.8 | 55 |
| 36 | NOX4 mediates cytoprotective autophagy induced by the EGFR inhibitor erlotinib in head and neck cancer cells. <i>Toxicology and Applied Pharmacology</i> , 2013, 272, 736-745. | 2.8 | 54 |

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|----|---|------|-----------|
| 37 | CaMKII Is Essential for the Proasthmatic Effects of Oxidation. <i>Science Translational Medicine</i> , 2013, 5, 195ra97. | 12.4 | 54 |
| 38 | Nox4 NADPH oxidase contributes to smooth muscle cell phenotypes associated with unstable atherosclerotic plaques. <i>Redox Biology</i> , 2014, 2, 642-650. | 9.0 | 52 |
| 39 | Pharmacologic activation of the human coronary microcirculation in vitro: endothelium-dependent dilation and differential responses to acetylcholine. <i>Cardiovascular Research</i> , 1998, 38, 744-750. | 3.8 | 51 |
| 40 | Statin Therapy Reduces Growth of Abdominal Aortic Aneurysms. <i>Journal of Investigative Medicine</i> , 2011, 59, 1239-1243. | 1.6 | 51 |
| 41 | A Critical Role for Chloride Channel-3 (ClC-3) in Smooth Muscle Cell Activation and Neointima Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 345-351. | 2.4 | 47 |
| 42 | Inhibition of NADPH Oxidase by Apocynin Attenuates Progression of Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2013, 14, 17017-17028. | 4.1 | 47 |
| 43 | Electrophysiology of Reactive Oxygen Production in Signaling Endosomes. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1335-1347. | 5.4 | 46 |
| 44 | Functional Evaluation of Nonphagocytic NAD(P)H Oxidases. <i>Methods in Enzymology</i> , 2002, 353, 220-233. | 1.0 | 45 |
| 45 | Reactive oxygen species mediate arachidonic acid-induced dilation in porcine coronary microvessels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2309-H2315. | 3.2 | 45 |
| 46 | An Oxidized Extracellular Oxidation-Reduction State Increases Nox1 Expression and Proliferation in Vascular Smooth Muscle Cells Via Epidermal Growth Factor Receptor Activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 2234-2241. | 2.4 | 45 |
| 47 | Activation of NADPH Oxidase 1 Increases Intracellular Calcium and Migration of Smooth Muscle Cells. <i>Hypertension</i> , 2011, 58, 446-453. | 2.7 | 45 |
| 48 | Increased Epidermal Growth Factor-Like Ligands Are Associated With Elevated Vascular Nicotinamide Adenine Dinucleotide Phosphate Oxidase in a Primate Model of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2452-2460. | 2.4 | 45 |
| 49 | Activation of NAD(P)H oxidase by lipid hydroperoxides: mechanism of oxidant-mediated smooth muscle cytotoxicity. <i>Free Radical Biology and Medicine</i> , 2003, 34, 937-946. | 2.9 | 41 |
| 50 | Enhanced H ₂ O ₂ -Induced Cytotoxicity in "Epithelioid" Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 1473-1479. | 2.4 | 39 |
| 51 | Early gestation dexamethasone programs enhanced postnatal ovine coronary artery vascular reactivity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R46-R53. | 1.8 | 36 |
| 52 | Increased Expression of Nox1 in Neointimal Smooth Muscle Cells Promotes Activation of Matrix Metalloproteinase-9. <i>Journal of Vascular Research</i> , 2012, 49, 242-248. | 1.4 | 36 |
| 53 | NOX2 Protects against Prolonged Inflammation, Lung Injury, and Mortality following Systemic Insults. <i>Journal of Innate Immunity</i> , 2013, 5, 565-580. | 3.8 | 36 |
| 54 | Nox2 NADPH oxidase is dispensable for platelet activation or arterial thrombosis in mice. <i>Blood Advances</i> , 2019, 3, 1272-1284. | 5.2 | 34 |

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|----|--|-----|-----------|
| 55 | Effect of brief myocardial ischemia on sympathetic coronary vasoconstriction.. Circulation Research, 1992, 71, 960-969. | 4.5 | 32 |
| 56 | Phosphorylation of Nox1 Regulates Association With NoxA1 Activation Domain. Circulation Research, 2014, 115, 911-918. | 4.5 | 31 |
| 57 | 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 |
| 58 | Smooth Muscle Cellâ€‘targeted RNA Aptamer Inhibits Neointimal Formation. Molecular Therapy, 2016, 24, 779-787. | 8.2 | 26 |
| 59 | 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 |
| 60 | Anticoagulant Responses to Thrombin Are Enhanced During Regression of Atherosclerosis in Monkeys. Circulation, 2002, 106, 842-846. | 1.6 | 22 |
| 61 | Endothelial Superoxide Production Is Altered in Sheep Programmed by Early Gestation Dexamethasone Exposure. Neonatology, 2008, 93, 19-27. | 2.0 | 22 |
| 62 | Nox1 NADPH oxidase is necessary for late but not early myocardial ischaemic preconditioning. Cardiovascular Research, 2014, 102, 79-87. | 3.8 | 22 |
| 63 | Extracellular but not cytosolic superoxide dismutase protects against oxidant-mediated endothelial dysfunction. Redox Biology, 2013, 1, 292-296. | 9.0 | 20 |
| 64 | The Multifunctional Ca ²⁺ /Calmodulin-Dependent Kinase Î² (CaMKÎ²) Regulates Arteriogenesis in a Mouse Model of Flow-Mediated Remodeling. PLoS ONE, 2013, 8, e71550. | 2.5 | 20 |
| 65 | Aortic Aneurysms. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1948-1949. | 2.4 | 19 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Statin therapy reduces growth of abdominal aortic aneurysms. Journal of Investigative Medicine, 2011, 59, 1239-43. | 1.6 | 16 |
| 70 | Hypertension and Mitochondrial Oxidative Stress Revisited. Circulation Research, 2020, 126, 453-455. | 4.5 | 15 |
| 71 | Adventitial Fibroblasts. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 722-723. | 2.4 | 14 |
| 72 | NADPH Oxidase 4. Circulation Research, 2009, 105, 209-210. | 4.5 | 13 |

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|----|--|------|-----------|
| 73 | Glutathione peroxidase-deficient smooth muscle cells cause paracrine activation of normal smooth muscle cells via cyclophilin A. <i>Vascular Pharmacology</i> , 2011, 55, 143-148. | 2.1 | 13 |
| 74 | RNA inhibitors of nuclear proteins responsible for multiple organ dysfunction syndrome. <i>Nature Communications</i> , 2019, 10, 116. | 12.8 | 11 |
| 75 | Coronary Constriction to Angiotensin II Is Enhanced by Endothelial Superoxide Production in Sheep Programmed by Dexamethasone. <i>Pediatric Research</i> , 2008, 63, 370-374. | 2.3 | 10 |
| 76 | Delivery of Cell-Specific Aptamers to the Arterial Wall with an Occlusion Perfusion Catheter. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 16, 360-366. | 5.1 | 10 |
| 77 | Free radical scavenger specifically prevents ischemic focal ventricular tachycardia. <i>Heart Rhythm</i> , 2009, 6, 530-536. | 0.7 | 9 |
| 78 | Drebrin regulates angiotensin II-induced aortic remodelling. <i>Cardiovascular Research</i> , 2018, 114, 1806-1815. | 3.8 | 9 |
| 79 | Drebrin attenuates atherosclerosis by limiting smooth muscle cell transdifferentiation. <i>Cardiovascular Research</i> , 2022, 118, 772-784. | 3.8 | 8 |
| 80 | Activation in the region of parabrachial nucleus elicits neurogenically mediated coronary vasoconstriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1991, 261, H1585-H1596. | 3.2 | 6 |
| 81 | The nitric oxide synthase inhibitor NG-nitro-L-arginine decreases defibrillation-induced free radical generation. <i>Resuscitation</i> , 2004, 60, 351-358. | 3.0 | 6 |
| 82 | Nox4 NADPH oxidase: emerging from the veil of darkness. <i>European Heart Journal</i> , 2015, 36, 3457-3459. | 2.2 | 5 |
| 83 | Role of NADPH Oxidase and Xanthine Oxidase in Mediating Inducible VT/VF and Triggered Activity in a Canine Model of Myocardial Ischemia. <i>International Journal of Molecular Sciences</i> , 2014, 15, 20079-20100. | 4.1 | 4 |
| 84 | The nitric oxide synthase inhibitor NG-nitro-L-arginine decreases defibrillation-induced free radical generation. <i>Resuscitation</i> , 2003, 57, 101-108. | 3.0 | 3 |
| 85 | Outside-In Signaling by Adventitial Fibroblasts. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 711-713. | 2.4 | 3 |
| 86 | Calcium-Activated Potassium Channels Mask Vascular Dysfunction Associated with Oxidized LDL Exposure in Rabbit Aorta. <i>International Heart Journal</i> , 2001, 42, 317-326. | 0.6 | 2 |
| 87 | AIF-1 in the Activated Smooth Muscle Cell. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 1701-1703. | 2.4 | 1 |
| 88 | 61. Vascular Smooth Muscle Cell RNA Aptamers for the Treatment of Cardiovascular Disease. <i>Molecular Therapy</i> , 2015, 23, S27. | 8.2 | 1 |
| 89 | Chemiluminescence and the Nox1-Nox2-Nox4 Triple Knockout. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 1246-1247. | 5.4 | 1 |
| 90 | Effect of oxidative stress on apoptosis and regulation of Bax and Bcl-2 in development of intimal thickening of balloon-injured rat carotid artery. <i>FASEB Journal</i> , 2007, 21, A1343. | 0.5 | 1 |

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|----|--|-----|-----------|
| 91 | Expression of Nox4 NADPH Oxidase Splice Variants Generate Hydrogen Peroxide and Modify the Cell Cycle. FASEB Journal, 2019, 33, 815.11. | 0.5 | 1 |
| 92 | Erratum to "The nitric oxide synthase inhibitor N. Resuscitation, 2004, 60, 349. | 3.0 | 0 |
| 93 | Was the role of statins in slowing the progression of abdominal aortic aneurysms underestimated?. American Heart Journal, 2011, 161, e29. | 2.7 | 0 |
| 94 | Any questions?. EMBO Reports, 2011, 12, 202-205. | 4.5 | 0 |
| 95 | Nox1 Endocytosis and Activation Are Regulated by Intracellular Hydrophobic Motifs. Free Radical Biology and Medicine, 2013, 65, S83. | 2.9 | 0 |
| 96 | Cl ⁻ anion current is required for superoxide production in early endosomes and subsequent NF- κ B activation by TNF. FASEB Journal, 2008, 22, 937.17. | 0.5 | 0 |
| 97 | Effect of Circulating EGF-like Ligands on NADPH Oxidase Expression in Vascular Cells. FASEB Journal, 2019, 33, 679.16. | 0.5 | 0 |