# Aruni Bhatnagar

List of Publications by Year
in descending order

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|---|---|---|---|
| 319 papers | 23,806 citations | 8732 75 h-index | 10424 139 g-index |
| 332 all docs | 332 docs citations | 332 times ranked | 28291 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Particulate Matter Air Pollution and Cardiovascular Disease. Circulation, 2010, 121, 2331-2378. | 1.6 | 5,007 |
| 2 | Exposure to Fine Particulate Air Pollution Is Associated With Endothelial Injury and Systemic Inflammation. Circulation Research, 2016, 119, 1204-1214. | 2.0 | 472 |
| 3 | Role of Aldose Reductase and Oxidative Damage in Diabetes and the Consequent Potential for Therapeutic Options. Endocrine Reviews, 2005, 26, 380-392. | 8.9 | 441 |
| 4 | The Aldo-Keto Reductase Superfamily and its Role in Drug Metabolism and Detoxification. Drug Metabolism Reviews, 2008, 40, 553-624. | 1.5 | 419 |
| 5 | Cardiovascular Effects and Benefits of Exercise. Frontiers in Cardiovascular Medicine, 2018, 5, 135. | 1.1 | 386 |
| 6 | Environmental Cardiology. Circulation Research, 2006, 99, 692-705. | 2.0 | 375 |
| 7 | Electronic Cigarettes. Circulation, 2014, 130, 1418-1436. | 1.6 | 348 |
| 8 | Environmental Determinants of Cardiovascular Disease. Circulation Research, 2017, 121, 162-180. | 2.0 | 337 |
| 9 | Measurement of Reactive Oxygen Species, Reactive Nitrogen Species, and Redox-Dependent Signaling in the Cardiovascular System. Circulation Research, 2016, 119, e39-75. | 2.0 | 290 |
| 10 | Prevalence and Distribution of E-Cigarette Use Among U.S. Adults: Behavioral Risk Factor Surveillance System, 2016. Annals of Internal Medicine, 2018, 169, 429-438. | 2.0 | 265 |
| 11 | Resolvin D1 decreases adipose tissue macrophage accumulation and improves insulin sensitivity in obeseâ€diabetic mice. FASEB Journal, 2011, 25, 2399-2407. | 0.2 | 263 |
| 12 | Association of Electronic Cigarette Use With Subsequent Initiation of Tobacco Cigarettes in US Youths. JAMA Network Open, 2019, 2, e187794. | 2.8 | 226 |
| 13 | Cardioprotection by N -Acetylglucosamine Linkage to Cellular Proteins. Circulation, 2008, 117, 1172-1182. | 1.6 | 215 |
| 14 | Cardioprotective and Antiapoptotic Effects of Heme Oxygenase-1 in the Failing Heart. Circulation, 2010, 121, 1912-1925. | 1.6 | 212 |
| 15 | Metabolism of the Lipid Peroxidation Product, 4-Hydroxy-trans-2-nonenal, in Isolated Perfused Rat Heart. Journal of Biological Chemistry, 1998, 273, 10893-10900. | 1.6 | 204 |
| 16 | Metabolomic Analysis of Pressure-Overloaded and Infarcted Mouse Hearts. Circulation: Heart Failure, 2014, 7, 634-642. | 1.6 | 181 |
| 17 | Exposure to Fine Particulate Air Pollution Causes Vascular Insulin Resistance by Inducing Pulmonary Oxidative Stress. Environmental Health Perspectives, 2016, 124, 1830-1839. | 2.8 | 180 |
| 18 | PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. Biochemical Journal, 2013, 451, 375-388. | 1.7 | 175 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Structural and Kinetic Determinants of Aldehyde Reduction by Aldose Reductaseâ€. Biochemistry, 1999, 38, 42-54. | 1.2 | 173 |
| 20 | Activation of Nulcear Factor-ÂB by Hyperglycemia in Vascular Smooth Muscle Cells Is Regulated by Aldose Reductase. Diabetes, 2004, 53, 2910-2920. | 0.3 | 167 |
| 21 | Proresolution Therapy for the Treatment of Delayed Healing of Diabetic Wounds. Diabetes, 2013, 62, 618-627. | 0.3 | 167 |
| 22 | Nitric Oxide (NO) Induces Nitration of Protein Kinase CÎµ (PKCÎµ), Facilitating PKCÎµ Translocation via Enhanced PKCÎµ-RACK2 Interactions. Journal of Biological Chemistry, 2002, 277, 15021-15027. | 1.6 | 165 |
| 23 | c-kit+ Cardiac Stem Cells Alleviate Post-Myocardial Infarction Left Ventricular Dysfunction Despite Poor Engraftment and Negligible Retention in the Recipient Heart. PLoS ONE, 2014, 9, e96725. | 1.1 | 158 |
| 24 | Unsaturated lipid peroxidation-derived aldehydes activate autophagy in vascular smooth-muscle cells. Biochemical Journal, 2008, 410, 525-534. | 1.7 | 155 |
| 25 | Induction of Rat Aortic Smooth Muscle Cell Growth by the Lipid Peroxidation Product 4-Hydroxy-2-Nonenal. Circulation, 1998, 97, 1071-1078. | 1.6 | 152 |
| 26 | Polychlorinated biphenyl 153 is a diet-dependent obesogen that worsens nonalcoholic fatty liver disease in male C57BL6/J mice. Journal of Nutritional Biochemistry, 2013, 24, 1587-1595. | 1.9 | 151 |
| 27 | Deficiency of the Leukotriene B4 Receptor, BLT-1, Protects against Systemic Insulin Resistance in Diet-Induced Obesity. Journal of Immunology, 2011, 187, 1942-1949. | 0.4 | 150 |
| 28 | Protein Modification by Acrolein: Formation and Stability of Cysteine Adducts. Chemical Research in Toxicology, 2009, 22, 708-716. | 1.7 | 147 |
| 29 | Acrolein Exposure Is Associated With Increased Cardiovascular Disease Risk. Journal of the American Heart Association, 2014, 3, . | 1.6 | 146 |
| 30 | Aldose reductase inhibition suppresses oxidative stress-induced inflammatory disorders. Chemico-Biological Interactions, 2011, 191, 330-338. | 1.7 | 144 |
| 31 | Aldose reductase: Congenial and injurious profiles of an enigmatic enzyme. Biochemical Medicine and Metabolic Biology, 1992, 48, 91-121. | 0.7 | 143 |
| 32 | Association Between E-Cigarette Use and Cardiovascular Disease Among Never and Current Combustible-Cigarette Smokers. American Journal of Medicine, 2019, 132, 949-954.e2. | 0.6 | 139 |
| 33 | E-cigarette initiation and associated changes in smoking cessation and reduction: the Population Assessment of Tobacco and Health Study, 2013â€“2015. Tobacco Control, 2018, 28, tobaccocontrol-2017-054108. | 1.8 | 136 |
| 34 | Overexpression of Endothelial Nitric Oxide Synthase Prevents Diet-Induced Obesity and Regulates Adipocyte Phenotype. Circulation Research, 2012, 111, 1176-1189. | 2.0 | 134 |
| 35 | Role of thiols in oxidative stress. Current Opinion in Toxicology, 2018, 7, 133-139. | 2.6 | 133 |
| 36 | Mitogenic Responses of Vascular Smooth Muscle Cells to Lipid Peroxidation-derived Aldehyde 4-Hydroxy-trans-2-nonenal (HNE). Journal of Biological Chemistry, 2006, 281, 17652-17660. | 1.6 | 132 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Episodic Exposure to Fine Particulate Air Pollution Decreases Circulating Levels of Endothelial Progenitor Cells. Circulation Research, 2010, 107, 200-203. | 2.0 | 130 |
| 38 | Aldose Reductase Is an Obligatory Mediator of the Late Phase of Ischemic Preconditioning. Circulation Research, 2002, 91, 240-246. | 2.0 | 120 |
| 39 | Requirement of Aldose Reductase for the Hyperglycemic Activation of Protein Kinase C and Formation of Diacylglycerol in Vascular Smooth Muscle Cells. Diabetes, 2005, 54, 818-829. | 0.3 | 119 |
| 40 | Metabolism of lipid peroxidation product, 4-hydroxynonenal (HNE) in rat erythrocytes: role of aldose reductase. Free Radical Biology and Medicine, 2000, 29, 642-651. | 1.3 | 114 |
| 41 | Association Between Residential Greenness and Cardiovascular Disease Risk. Journal of the American Heart Association, 2018, 7, e009117. | 1.6 | 114 |
| 42 | Personal-Level Protective Actions Against Particulate Matter Air Pollution Exposure: A Scientific Statement From the American Heart Association. Circulation, 2020, 142, e411-e431. | 1.6 | 112 |
| 43 | Cardiac Myocyteâ€“Specific Expression of Inducible Nitric Oxide Synthase Protects Against Ischemia/Reperfusion Injury by Preventing Mitochondrial Permeability Transition. Circulation, 2008, 118, 1970-1978. | 1.6 | 109 |
| 44 | Oxidative and reductive metabolism of lipid-peroxidation derived carbonyls. Chemico-Biological Interactions, 2015, 234, 261-273. | 1.7 | 109 |
| 45 | Protein glutathiolation by nitric oxide: an intracellular mechanism regulating redox protein modification. FASEB Journal, 2006, 20, 1715-1717. | 0.2 | 108 |
| 46 | Modeling Cardiovascular Risks of E-Cigarettes With Human-Induced Pluripotent Stem Cellâ€“Derived Endothelial Cells. Journal of the American College of Cardiology, 2019, 73, 2722-2737. | 1.2 | 108 |
| 47 | Protein S-glutathiolation: Redox-sensitive regulation of protein function. Journal of Molecular and Cellular Cardiology, 2012, 52, 559-567. | 0.9 | 106 |
| 48 | Lipid Peroxidation Product 4-Hydroxy-trans-2-nonenal Causes Endothelial Activation by Inducing Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2012, 287, 11398-11409. | 1.6 | 105 |
| 49 | Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. Circulation, 2017, 136, 2144-2157. | 1.6 | 103 |
| 50 | Association Between e-Cigarette Use and Depression in the Behavioral Risk Factor Surveillance System, 2016-2017. JAMA Network Open, 2019, 2, e1916800. | 2.8 | 101 |
| 51 | Water Pipe (Hookah) Smoking and Cardiovascular Disease Risk: A Scientific Statement From the American Heart Association. Circulation, 2019, 139, e917-e936. | 1.6 | 100 |
| 52 | Reductive Metabolism of AGE Precursors: A Metabolic Route for Preventing AGE Accumulation in Cardiovascular Tissue. Diabetes, 2009, 58, 2486-2497. | 0.3 | 98 |
| 53 | Glutathione-S-transferase P protects against endothelial dysfunction induced by exposure to tobacco smoke. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1586-H1597. | 1.5 | 98 |
| 54 | Oral exposure to acrolein exacerbates atherosclerosis in apoE-null mice. Atherosclerosis, 2011, 215, 301-308. | 0.4 | 98 |

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|---|---|---|---|
| 55 | Endotoxin-Induced Cardiomyopathy and Systemic Inflammation in Mice Is Prevented by Aldose Reductase Inhibition. Circulation, 2006, 114, 1838-1846. | 1.6 | 97 |
| 56 | Flavorings in Tobacco Products Induce Endothelial Cell Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1607-1615. | 1.1 | 97 |
| 57 | Cigarette Smoking and Incident Heart Failure. Circulation, 2018, 137, 2572-2582. | 1.6 | 96 |
| 58 | Biomarkers of exposure to new and emerging tobacco delivery products. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L425-L452. | 1.3 | 95 |
| 59 | Selective Recognition of Glutathiolated Aldehydes by Aldose Reductase. Biochemistry, 2000, 39, 12172-12180. | 1.2 | 94 |
| 60 | High-throughput sequencing of SARS-CoV-2 in wastewater provides insights into circulating variants. Water Research, 2021, 205, 117710. | 5.3 | 93 |
| 61 | Mechanisms of acrolein-induced myocardial dysfunction: implications for environmental and endogenous aldehyde exposure. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3673-H3684. | 1.5 | 92 |
| 62 | Human Cardiac Stem Cells Isolated from Atrial Appendages Stably Express c-kit. PLoS ONE, 2011, 6, e27719. | 1.1 | 91 |
| 63 | Aldose Reductase Mediates Mitogenic Signaling in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2002, 277, 32063-32070. | 1.6 | 90 |
| 64 | Involvement of Aldose Reductase in Vascular Smooth Muscle Cell Growth and Lesion Formation After Arterial Injury. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1745-1752. | 1.1 | 89 |
| 65 | Aldose reductase mediates cytotoxic signals of hyperglycemia and TNFâ€Î± in human lens epithelial cells. FASEB Journal, 2003, 17, 315-317. | 0.2 | 89 |
| 66 | The Heme Oxygenase 1 Inducer (CoPP) Protects Human Cardiac Stem Cells against Apoptosis through Activation of the Extracellular Signal-regulated Kinase (ERK)/NRF2 Signaling Pathway and Cytokine Release. Journal of Biological Chemistry, 2012, 287, 33720-33732. | 1.6 | 89 |
| 67 | Dietary Carnosine Prevents Early Atherosclerotic Lesion Formation in Apolipoprotein Eâ€“Null Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1162-1170. | 1.1 | 87 |
| 68 | Cardiovascular pathophysiology of environmental pollutants. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H479-H485. | 1.5 | 86 |
| 69 | Substrate specificity and catalytic efficiency of aldo-keto reductases with phospholipid aldehydes. Biochemical Journal, 2007, 405, 95-105. | 1.7 | 86 |
| 70 | Acrolein consumption exacerbates myocardial ischemic injury and blocks nitric oxide-induced PKCÎµ signaling and cardioprotection. Journal of Molecular and Cellular Cardiology, 2008, 44, 1016-1022. | 0.9 | 86 |
| 71 | Resolvin D2 Enhances Postischemic Revascularization While Resolving Inflammation. Circulation, 2016, 134, 666-680. | 1.6 | 85 |
| 72 | Kinetic and Structural Characterization of the Glutathione-binding Site of Aldose Reductase. Journal of Biological Chemistry, 2000, 275, 21587-21595. | 1.6 | 82 |

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|---|---|---|---|
| 73 | Environmental Risk Factors for Heart Disease. Reviews on Environmental Health, 2008, 23, 167-202. | 1.1 | 82 |
| 74 | Inhibition of aldose reductase attenuates TNFâ€Î±â€induced expression of adhesion molecules in endothelial cells. FASEB Journal, 2004, 18, 1209-1218. | 0.2 | 81 |
| 75 | Increased Saturated Fatty Acids in Obesity Alter Resolution of Inflammation in Part by Stimulating Prostaglandin Production. Journal of Immunology, 2013, 191, 1383-1392. | 0.4 | 80 |
| 76 | Anti-inflammatory effects of miR-21 in the macrophage response to peritonitis. Journal of Leukocyte Biology, 2016, 99, 361-371. | 1.5 | 80 |
| 77 | Exposure to Ambient Air Fine Particulate Matter Prevents VEGF-Induced Mobilization of Endothelial Progenitor Cells from the Bone Marrow. Environmental Health Perspectives, 2012, 120, 848-856. | 2.8 | 78 |
| 78 | The oncogenic microRNA miR-21 promotes regulated necrosis in mice. Nature Communications, 2015, 6, 7151. | 5.8 | 78 |
| 79 | Regulation of Ion Channels by Pyridine Nucleotides. Circulation Research, 2013, 112, 721-741. | 2.0 | 77 |
| 80 | Role of Aldose Reductase in the Metabolism and Detoxification of Carnosine-Acrolein Conjugates. Journal of Biological Chemistry, 2013, 288, 28163-28179. | 1.6 | 77 |
| 81 | Lipid peroxidation-derived aldehydes and oxidative stress in the failing heart: role of aldose reductase. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2612-H2619. | 1.5 | 76 |
| 82 | Comparison of Urinary Biomarkers of Exposure in Humans Using Electronic Cigarettes, Combustible Cigarettes, and Smokeless Tobacco. Nicotine and Tobacco Research, 2019, 21, 1228-1238. | 1.4 | 76 |
| 83 | Identification of cardiac oxidoreductase(s) involved in the metabolism of the lipid peroxidation-derived aldehyde-4-hydroxynonenal. Biochemical Journal, 1998, 329, 469-475. | 1.7 | 75 |
| 84 | Redox Activation of Aldose Reductase in the Ischemic Heart. Journal of Biological Chemistry, 2006, 281, 15110-15120. | 1.6 | 75 |
| 85 | Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. Toxicology and Applied Pharmacology, 2010, 243, 1-12. | 1.3 | 74 |
| 86 | Exposure to acrolein by inhalation causes platelet activation. Toxicology and Applied Pharmacology, 2010, 248, 100-110. | 1.3 | 74 |
| 87 | Chronic oral exposure to the aldehyde pollutant acrolein induces dilated cardiomyopathy. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2050-H2060. | 1.5 | 74 |
| 88 | Nitric oxide regulates the polyol pathway of glucose metabolism in vascular smooth muscle cells. FASEB Journal, 2003, 17, 417-425. | 0.2 | 72 |
| 89 | Assessment of Immunoreactive Synthetic Peptides from the Structural Proteins of Severe Acute Respiratory Syndrome Coronavirus. Clinical Chemistry, 2003, 49, 1989-1996. | 1.5 | 71 |
| 90 | Inhalation of Fine Particulate Matter Impairs Endothelial Progenitor Cell Function Via Pulmonary Oxidative Stress. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 131-142. | 1.1 | 71 |

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| 91 | Comparative measurements of multicomponent phospholipid mixtures by electrospray mass spectroscopy: relating ion intensity to concentration. Analytical Biochemistry, 2002, 308, 152-159. | 1.1 | 70 |
| 92 | Nitric Oxide Prevents Aldose Reductase Activation and Sorbitol Accumulation During Diabetes. Diabetes, 2002, 51, 3095-3101. | 0.3 | 69 |
| 93 | Overview of Pyridine Nucleotides Review Series. Circulation Research, 2012, 111, 604-610. | 2.0 | 69 |
| 94 | High Fat Feeding in Mice Is Insufficient to Induce Cardiac Dysfunction and Does Not Exacerbate Heart Failure. PLoS ONE, 2013, 8, e83174. | 1.1 | 69 |
| 95 | Association Between E-Cigarette Use and Chronic Obstructive Pulmonary Disease by Smoking Status: Behavioral Risk Factor Surveillance System 2016 and 2017. American Journal of Preventive Medicine, 2020, 58, 336-342. | 1.6 | 69 |
| 96 | Acrolein activates matrix metalloproteinases by increasing reactive oxygen species in macrophages. Toxicology and Applied Pharmacology, 2009, 236, 194-201. | 1.3 | 68 |
| 97 | Associations of Cigarette Smoking With Subclinical Inflammation and Atherosclerosis: ELSAâ€Brasil (The Brazilian Longitudinal Study of Adult Health). Journal of the American Heart Association, 2017, 6, . | 1.6 | 67 |
| 98 | Association of Electronic Cigarette Use With Incident Respiratory Conditions Among US Adults From 2013 to 2018. JAMA Network Open, 2020, 3, e2020816. | 2.8 | 67 |
| 99 | Electrophysiological Effects of 4-Hydroxynonenal, an Aldehydic Product of Lipid Peroxidation, on Isolated Rat Ventricular Myocytes. Circulation Research, 1995, 76, 293-304. | 2.0 | 67 |
| 100 | Aldose Reductase Protects Against Early Atherosclerotic Lesion Formation in Apolipoprotein E-Null Mice. Circulation Research, 2009, 105, 793-802. | 2.0 | 66 |
| 101 | Pentaerythritol Tetranitrate Improves Angiotensin IIâ€“Induced Vascular Dysfunction via Induction of Heme Oxygenase-1. Hypertension, 2010, 55, 897-904. | 1.3 | 66 |
| 102 | The relationship between smoking intensity and subclinical cardiovascular injury: The Multi-Ethnic Study of Atherosclerosis (MESA). Atherosclerosis, 2017, 258, 119-130. | 0.4 | 66 |
| 103 | Acrolein Inhalation Prevents Vascular Endothelial Growth Factorâ€“Induced Mobilization of Flk-1 <sup>+</sup> /Sca-1 <sup>+</sup> Cells in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1598-1606. | 1.1 | 65 |
| 104 | Detailed Analysis of Bone Marrow From Patients With Ischemic Heart Disease and Left Ventricular Dysfunction. Circulation Research, 2014, 115, 867-874. | 2.0 | 65 |
| 105 | Bone Marrow Characteristics Associated With Changes in Infarct Size After STEMI. Circulation Research, 2015, 116, 99-107. | 2.0 | 65 |
| 106 | Electronic cigarette-generated aldehydes: The contribution of e-liquid components to their formation and the use of urinary aldehyde metabolites as biomarkers of exposure. Aerosol Science and Technology, 2018, 52, 1219-1232. | 1.5 | 64 |
| 107 | Differential regulation of voltage-gated K+channels by oxidized and reduced pyridine nucleotide coenzymes. American Journal of Physiology - Cell Physiology, 2005, 288, C366-C376. | 2.1 | 62 |
| 108 | Aldose Reductase-catalyzed Reduction of Aldehyde Phospholipids. Journal of Biological Chemistry, 2004, 279, 53395-53406. | 1.6 | 61 |

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|---|---|---|---|
| 109 | New and Emerging Tobacco Products and the Nicotine Endgame: The Role of Robust Regulation and Comprehensive Tobacco Control and Prevention: A Presidential Advisory From the American Heart Association. Circulation, 2019, 139, e937-e958. | 1.6 | 60 |
| 110 | Contribution of Aldose Reductase to Diabetic Hyperproliferation of Vascular Smooth Muscle Cells. Diabetes, 2006, 55, 901-910. | 0.3 | 59 |
| 111 | Role of endoplasmic reticulum stress in acrolein-induced endothelial activation. Toxicology and Applied Pharmacology, 2009, 234, 14-24. | 1.3 | 59 |
| 112 | MicroRNAâ€155 potentiates the inflammatory response in hypothermia by suppressing ILâ€10 production. FASEB Journal, 2014, 28, 5322-5336. | 0.2 | 58 |
| 113 | Invalidity of an Oft-Cited Estimate of the Relative Harms of Electronic Cigarettes. American Journal of Public Health, 2020, 110, 161-162. | 1.5 | 58 |
| 114 | Carnosine and anserine homeostasis in skeletal muscle and heart is controlled by Î²â€alanine transamination. Journal of Physiology, 2016, 594, 4849-4863. | 1.3 | 57 |
| 115 | Alterations in Vascular Function Associated With the Use of Combustible and Electronic Cigarettes. Journal of the American Heart Association, 2020, 9, e014570. | 1.6 | 56 |
| 116 | Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. Biochemical Journal, 2017, 474, 2785-2801. | 1.7 | 55 |
| 117 | Carnosine protects cardiac myocytes against lipid peroxidation products. Amino Acids, 2019, 51, 123-138. | 1.2 | 55 |
| 118 | Benzene exposure is associated with cardiovascular disease risk. PLoS ONE, 2017, 12, e0183602. | 1.1 | 55 |
| 119 | Protein O-GlcNAcylation Is a Novel Cytoprotective Signal in Cardiac Stem Cells. Stem Cells, 2013, 31, 765-775. | 1.4 | 54 |
| 120 | Cardiovascular injury induced by tobacco products: assessment of risk factors and biomarkers of harm. A Tobacco Centers of Regulatory Science compilation. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H801-H827. | 1.5 | 54 |
| 121 | E-Cigarettes and Cardiovascular Disease Risk: Evaluation of Evidence, Policy Implications, and Recommendations. Current Cardiovascular Risk Reports, 2016, 10, 1. | 0.8 | 53 |
| 122 | Distribution based nearest neighbor imputation for truncated high dimensional data with applications to pre-clinical and clinical metabolomics studies. BMC Bioinformatics, 2017, 18, 114. | 1.2 | 52 |
| 123 | Exposure to airborne fine particulate matter is associated with impaired endothelial function and biomarkers of oxidative stress and inflammation. Environmental Research, 2020, 180, 108890. | 3.7 | 52 |
| 124 | Characterization of Volatile Organic Compound Metabolites in Cigarette Smokers, Electronic Nicotine Device Users, Dual Users, and Nonusers of Tobacco. Nicotine and Tobacco Research, 2020, 22, 264-272. | 1.4 | 51 |
| 125 | Postischemic Deactivation of Cardiac Aldose Reductase. Journal of Biological Chemistry, 2010, 285, 26135-26148. | 1.6 | 50 |
| 126 | Evidence for the involvement of histidine at the active site of glutathione S-transferase Ï^ from human liver. Biochemical and Biophysical Research Communications, 1987, 143, 965-970. | 1.0 | 49 |

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|---|---|---|---|
| 127 | Role of Nitric Oxide in Regulating Aldose Reductase Activation in the Ischemic Heart. Journal of Biological Chemistry, 2008, 283, 9101-9112. | 1.6 | 49 |
| 128 | The effect of oxidants on biomembranes and cellular metabolism. Molecular and Cellular Biochemistry, 1989, 91, 149-157. | 1.4 | 48 |
| 129 | Catalytic Mechanism and Substrate Specificity of the Î²-Subunit of the Voltage-Gated Potassium Channel. Biochemistry, 2008, 47, 8840-8854. | 1.2 | 48 |
| 130 | Increased Sensitivity of GlutathioneS-Transferase P-Null Mice to Cyclophosphamide-Induced Urinary Bladder Toxicity. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 456-469. | 1.3 | 47 |
| 131 | Cigarette Smoking and Chronic Kidney Disease in African Americans in the Jackson Heart Study. Journal of the American Heart Association, 2016, 5, . | 1.6 | 47 |
| 132 | Defining the Human Envirome. Circulation Research, 2018, 122, 1259-1275. | 2.0 | 47 |
| 133 | Guidance to Reduce the Cardiovascular Burden of Ambient Air Pollutants: A Policy Statement From the American Heart Association. Circulation, 2020, 142, e432-e447. | 1.6 | 47 |
| 134 | Modification of Aldose Reductase byS-Nitrosoglutathioneâ€. Biochemistry, 1997, 36, 15801-15809. | 1.2 | 46 |
| 135 | Glutamine Regulates Cardiac Progenitor Cell Metabolism and Proliferation. Stem Cells, 2015, 33, 2613-2627. | 1.4 | 46 |
| 136 | Insulin sensitizers prevent fine particulate matter-induced vascular insulin resistance and changes in endothelial progenitor cell homeostasis. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1423-H1438. | 1.5 | 46 |
| 137 | Role of glutathiolation in preservation, restoration and regulation of protein function. IUBMB Life, 2007, 59, 21-26. | 1.5 | 44 |
| 138 | Atf3 negatively regulates Ptgs2/Cox2 expression during acute inflammation. Prostaglandins and Other Lipid Mediators, 2015, 116-117, 49-56. | 1.0 | 44 |
| 139 | Exposure to volatile organic compounds â€“ acrolein, 1,3-butadiene, and crotonaldehyde â€“ is associated with vascular dysfunction. Environmental Research, 2021, 196, 110903. | 3.7 | 44 |
| 140 | Cardiovascular Effects of Particulate Air Pollution. Annual Review of Medicine, 2022, 73, 393-406. | 5.0 | 44 |
| 141 | Kinetic Studies of FR-1, a Growth Factor-Inducible Aldo-Keto Reductaseâ€. Biochemistry, 1998, 37, 12909-12917. | 1.2 | 43 |
| 142 | Green environments and cardiovascular health. Trends in Cardiovascular Medicine, 2020, 30, 241-246. | 2.3 | 43 |
| 143 | Transient Receptor Potential Ion Channels. Annals of Surgery, 2014, 259, 229-235. | 2.1 | 42 |
| 144 | Biomarkers of Chronic Acrolein Inhalation Exposure in Mice: Implications for Tobacco Product-Induced Toxicity. Toxicological Sciences, 2017, 158, 263-274. | 1.4 | 42 |

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|---|---|---|---|
| 145 | TRPA1 channel contributes to myocardial ischemia-reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H889-H899. | 1.5 | 42 |
| 146 | Cardiac mesenchymal cells from diabetic mice are ineffective for cell therapy-mediated myocardial repair. Basic Research in Cardiology, 2018, 113, 46. | 2.5 | 41 |
| 147 | Association of Cigarette and Electronic Cigarette Use Patterns With Levels of Inflammatory and Oxidative Stress Biomarkers Among US Adults. Circulation, 2021, 143, 869-871. | 1.6 | 41 |
| 148 | Aldose reductase regulates TNF-Î±-induced cell signaling and apoptosis in vascular endothelial cells. FEBS Letters, 2004, 570, 189-194. | 1.3 | 40 |
| 149 | NADPH binding to Î²-subunit regulates inactivation of voltage-gated K+ channels. Biochemical and Biophysical Research Communications, 2007, 359, 269-276. | 1.0 | 40 |
| 150 | Measurement and Identification of S-Glutathiolated Proteins. Methods in Enzymology, 2010, 473, 179-197. | 0.4 | 40 |
| 151 | Physiological and Pathological Roles of Aldose Reductase. Metabolites, 2021, 11, 655. | 1.3 | 40 |
| 152 | Inhibition kinetics of human kidney aldose and aldehyde reductases by aldose reductase inhibitors. Biochemical Pharmacology, 1990, 39, 1115-1124. | 2.0 | 39 |
| 153 | An analysis of the proteomic profile for Thermoanaerobacter tengcongensis under optimal culture conditions. Proteomics, 2004, 4, 136-150. | 1.3 | 39 |
| 154 | Residential Proximity to Major Roadways Is Associated With Increased Levels of AC133 <sup>+</sup> Circulating Angiogenic Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2468-2477. | 1.1 | 38 |
| 155 | Prenatal Exposure to Cigarette Smoke Induces Diet- and Sex-Dependent Dyslipidemia and Weight Gain in Adult Murine Offspring. Environmental Health Perspectives, 2009, 117, 1042-1048. | 2.8 | 37 |
| 156 | Interactions between the C-terminus of Kv1.5 and KvÎ² regulate pyridine nucleotide-dependent changes in channel gating. Pflugers Archiv European Journal of Physiology, 2012, 463, 799-818. | 1.3 | 37 |
| 157 | E-Cigarette Use Patterns and High-Risk Behaviors in Pregnancy: Behavioral Risk Factor Surveillance System, 2016â€“2018. American Journal of Preventive Medicine, 2020, 59, 187-195. | 1.6 | 37 |
| 158 | E-Cigarette Use and Risk of Cardiovascular Disease: A Longitudinal Analysis of the PATH Study (2013â€“2019). Circulation, 2022, 145, 1557-1559. | 1.6 | 37 |
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