

Komal Sodhi

List of Publications by Year in descending order

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65
papers

2,620
citations

172443

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197805

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docs citations

76
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic Review of Metabolic Syndrome Biomarkers: A Panel for Early Detection, Management, and Risk Stratification in the West Virginian Population. <i>International Journal of Medical Sciences</i> , 2016, 13, 25-38.	2.5	329
2	Epoxyeicosatrienoic Acid Agonist Rescues the Metabolic Syndrome Phenotype of HO-2-Null Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 906-916.	2.5	129
3	Mitochondrial Metabolic Reprogramming by CD36 Signaling Drives Macrophage Inflammatory Responses. <i>Circulation Research</i> , 2019, 125, 1087-1102.	4.5	114
4	Adipocyte Heme Oxygenase-1 Induction Attenuates Metabolic Syndrome in Both Male and Female Obese Mice. <i>Hypertension</i> , 2010, 56, 1124-1130.	2.7	102
5	Heme Oxygenase Gene Targeting to Adipocytes Attenuates Adiposity and Vascular Dysfunction in Mice Fed a High-Fat Diet. <i>Hypertension</i> , 2012, 60, 467-475.	2.7	88
6	Increased heme-oxygenase 1 expression in mesenchymal stem cell-derived adipocytes decreases differentiation and lipid accumulation via upregulation of the canonical Wnt signaling cascade. <i>Stem Cell Research and Therapy</i> , 2013, 4, 28.	5.5	84
7	Crosstalk between EET and HO-1 downregulates Bach1 and adipogenic marker expression in mesenchymal stem cell derived adipocytes. <i>Prostaglandins and Other Lipid Mediators</i> , 2011, 96, 54-62.	1.9	72
8	The Role of Na/K-ATPase Signaling in Oxidative Stress Related to Obesity and Cardiovascular Disease. <i>Molecules</i> , 2016, 21, 1172.	3.8	69
9	Epoxyeicosatrienoic Acids Regulate Adipocyte Differentiation of Mouse 3T3 Cells, Via PGC-1 β Activation, Which Is Required for HO-1 Expression and Increased Mitochondrial Function. <i>Stem Cells and Development</i> , 2016, 25, 1084-1094.	2.1	67
10	Cyclooxygenase-2 dependent metabolism of 20-HETE increases adiposity and adipocyte enlargement in mesenchymal stem cell-derived adipocytes. <i>Journal of Lipid Research</i> , 2013, 54, 786-793.	4.2	64
11	Systematic Review of Clinical Insights into Novel Coronavirus (CoVID-19) Pandemic: Persisting Challenges in U.S. Rural Population. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4279.	2.6	64
12	Heme Oxygenase-1 Induction Improves Cardiac Function following Myocardial Ischemia by Reducing Oxidative Stress. <i>PLoS ONE</i> , 2014, 9, e92246.	2.5	64
13	CYP4A2-Induced Hypertension Is 20-Hydroxyeicosatetraenoic Acid and Angiotensin II Dependent. <i>Hypertension</i> , 2010, 56, 871-878.	2.7	63
14	CYP2J2 Targeting to Endothelial Cells Attenuates Adiposity and Vascular Dysfunction in Mice Fed a High-Fat Diet by Reprogramming Adipocyte Phenotype. <i>Hypertension</i> , 2014, 64, 1352-1361.	2.7	61
15	Fructose Mediated Non-Alcoholic Fatty Liver Is Attenuated by HO-1-SIRT1 Module in Murine Hepatocytes and Mice Fed a High Fructose Diet. <i>PLoS ONE</i> , 2015, 10, e0128648.	2.5	59
16	Heme induced oxidative stress attenuates sirtuin1 and enhances adipogenesis in mesenchymal stem cells and mouse preadipocytes. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1926-1935.	2.6	58
17	EET agonist prevents adiposity and vascular dysfunction in rats fed a high fat diet via a decrease in Bach 1 and an increase in HO-1 levels. <i>Prostaglandins and Other Lipid Mediators</i> , 2012, 98, 133-142.	1.9	55
18	Lentiviral-Human Heme Oxygenase Targeting Endothelium Improved Vascular Function in Angiotensin II Animal Model of Hypertension. <i>Human Gene Therapy</i> , 2011, 22, 271-282.	2.7	51

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19	Attenuation of Na/K-ATPase Mediated Oxidant Amplification with pNaKtide Ameliorates Experimental Uremic Cardiomyopathy. <i>Scientific Reports</i> , 2016, 6, 34592.	3.3	51
20	Agonists of epoxyeicosatrienoic acids reduce infarct size and ameliorate cardiac dysfunction via activation of HO-1 and Wnt1 canonical pathway. <i>Prostaglandins and Other Lipid Mediators</i> , 2015, 116-117, 76-86.	1.9	44
21	High fat diet enhances cardiac abnormalities in SHR rats: Protective role of heme oxygenase-adiponectin axis. <i>Diabetology and Metabolic Syndrome</i> , 2011, 3, 37.	2.7	41
22	Peroxisome Proliferator-Activated Receptor γ Agonist, HPP593, Prevents Renal Necrosis under Chronic Ischemia. <i>PLoS ONE</i> , 2013, 8, e64436.	2.5	40
23	Role of Serum Biomarkers in Early Detection of Diabetic Cardiomyopathy in the West Virginian Population. <i>International Journal of Medical Sciences</i> , 2016, 13, 161-168.	2.5	36
24	Phenotypic Alteration of Hepatocytes in Non-Alcoholic Fatty Liver Disease. <i>International Journal of Medical Sciences</i> , 2018, 15, 1591-1599.	2.5	35
25	Therapeutic Efficacy of Antioxidants in Ameliorating Obesity Phenotype and Associated Comorbidities. <i>Frontiers in Pharmacology</i> , 2020, 11, 1234.	3.5	33
26	The Role of Na/K-ATPase Signaling in Oxidative Stress Related to Aging: Implications in Obesity and Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2139.	4.1	32
27	Oxidized HDL is a potent inducer of adipogenesis and causes activation of the Ang-II and 20-HETE systems in human obese females. <i>Prostaglandins and Other Lipid Mediators</i> , 2016, 123, 68-77.	1.9	30
28	The Role of Histone Acetylation-/Methylation-Mediated Apoptotic Gene Regulation in Hepatocellular Carcinoma. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8894.	4.1	30
29	HO-1 Upregulation Attenuates Adipocyte Dysfunction, Obesity, and Isoprostane Levels in Mice Fed High Fructose Diets. <i>Journal of Nutrition and Metabolism</i> , 2014, 2014, 1-13.	1.8	28
30	Existence of a Strong Correlation of Biomarkers and miRNA in Females with Metabolic Syndrome and Obesity in a Population of West Virginia. <i>International Journal of Medical Sciences</i> , 2017, 14, 543-553.	2.5	26
31	Upregulation of Heme Oxygenase-1 Combined with Increased Adiponectin Lowers Blood Pressure in Diabetic Spontaneously Hypertensive Rats through a Reduction in Endothelial Cell Dysfunction, Apoptosis and Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2008, 9, 2388-2406.	4.1	25
32	Developing a panel of biomarkers and miRNA in patients with myocardial infarction for early intervention strategies of heart failure in West Virginian population. <i>PLoS ONE</i> , 2018, 13, e0205329.	2.5	21
33	Predicting Nonalcoholic Fatty Liver Disease through a Panel of Plasma Biomarkers and MicroRNAs in Female West Virginia Population. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6698.	4.1	21
34	Detecting early onset of anthracyclines-induced cardiotoxicity using a novel panel of biomarkers in West-Virginian population with breast cancer. <i>Scientific Reports</i> , 2021, 11, 7954.	3.3	20
35	Role of Dietary Components in Modulating Hypertension. , 2016, 07, .		19
36	Apo A1 Mimetic Rescues the Diabetic Phenotype of HO-2 Knockout Mice via an Increase in HO-1 Adiponectin and LKBI Signaling Pathway. <i>International Journal of Hypertension</i> , 2012, 2012, 1-8.	1.3	17

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37	Uremic Toxins Activates Na/K-ATPase Oxidant Amplification Loop Causing Phenotypic Changes in Adipocytes in In Vitro Models. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2685.	4.1	16
38	HO-1 Induction Improves The Type-1 Cardiorenal Syndrome in Mice With Impaired Angiotensin II-Induced Lymphocyte Activation. <i>Hypertension</i> , 2013, 62, 310-316.	2.7	15
39	Heme Oxygenase Induction Suppresses Hepatic Hcpcidin and Rescues Ferroportin and Ferritin Expression in Obese Mice. <i>Journal of Nutrition and Metabolism</i> , 2017, 2017, 1-11.	1.8	15
40	Central Role for Adipocyte Na,K-ATPase Oxidant Amplification Loop in the Pathogenesis of Experimental Uremic Cardiomyopathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1746-1760.	6.1	15
41	Beneficial Role of HO-1-SIRT1 Axis in Attenuating Angiotensin II-Induced Adipocyte Dysfunction. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3205.	4.1	13
42	Investigating Molecular Connections of Non-alcoholic Fatty Liver Disease with Associated Pathological Conditions in West Virginia for Biomarker Analysis. <i>Journal of Clinical & Cellular Immunology</i> , 2017, 8, .	1.5	12
43	Adiponectin, Leptin, IGF-1, and Tumor Necrosis Factor Alpha As Potential Serum Biomarkers for Non-Invasive Diagnosis of Colorectal Adenoma in African Americans. <i>Frontiers in Endocrinology</i> , 2018, 9, 77.	3.5	12
44	The Redox-Sensitive Na/K-ATPase Signaling in Uremic Cardiomyopathy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1256.	4.1	12
45	Creating a Biomarker Panel for Early Detection of Chemotherapy Related Cardiac Dysfunction in Breast Cancer Patients. <i>Journal of Clinical & Experimental Cardiology</i> , 2017, 08, .	0.0	11
46	A Review of miRNAs as Biomarkers and Effect of Dietary Modulation in Obesity Associated Cognitive Decline and Neurodegenerative Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 756499.	2.9	11
47	Antioxidants Condition Pleiotropic Vascular Responses to Exogenous H ₂ O ₂ : Role of Modulation of Vascular TP Receptors and the Heme Oxygenase System. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 471-480.	5.4	10
48	Spin Trapping: A Review for the Study of Obesity Related Oxidative Stress and Na ⁺ /K ⁺ -ATPase. <i>Journal of Clinical & Cellular Immunology</i> , 2017, 08, .	1.5	10
49	Elucidating Potential Profibrotic Mechanisms of Emerging Biomarkers for Early Prognosis of Hepatic Fibrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4737.	4.1	10
50	Role of Serum Biomarkers in Early Detection of Non-Alcoholic Steatohepatitis and Fibrosis in West Virginian Children. <i>Journal of Clinical & Cellular Immunology</i> , 2016, 07, .	1.5	9
51	Metabolic Syndrome and Salt-Sensitive Hypertension in Polygenic Obese TALLYHO/JngJ Mice: Role of Na/K-ATPase Signaling. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3495.	4.1	9
52	The Pivotal Role of Adipocyte-Na K peptide in Reversing Systemic Inflammation in Obesity and COVID-19 in the Development of Heart Failure. <i>Antioxidants</i> , 2020, 9, 1129.	5.1	7
53	Oxidant-Induced Alterations in the Adipocyte Transcriptome: Role of the Na,K-ATPase Oxidant Amplification Loop. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5923.	4.1	7
54	The Na/K-ATPase Signaling and SGLT2 Inhibitor-Mediated Cardiorenal Protection: A Crossed Road?. <i>Journal of Membrane Biology</i> , 2021, 254, 513-529.	2.1	7

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55	The potential role of Na-K-ATPase and its signaling in the development of anemia in chronic kidney disease. American Journal of Physiology - Renal Physiology, 2021, 320, F234-F242.	2.7	6
56	Tumor-Suppressor Role of the β 1-Na/K-ATPase Signalosome in NASH Related Hepatocellular Carcinoma. International Journal of Molecular Sciences, 2022, 23, 7359.	4.1	6
57	Mechanistic Insight of Na/K-ATPase Signaling and HO-1 into Models of Obesity and Nonalcoholic Steatohepatitis. International Journal of Molecular Sciences, 2020, 21, 87.	4.1	5
58	Role of adipocyte Na,K-ATPase oxidant amplification loop in cognitive decline and neurodegeneration. IScience, 2021, 24, 103262.	4.1	3
59	Gut microbiome and diet in populations with obesity: Role of the Na ⁺ /K ⁺ -ATPase transporter signaling in severe COVID-19. Obesity, 2022, 30, 869-873.	3.0	3
60	Blockage of the Na-K-ATPase signaling-mediated oxidant amplification loop elongates red blood cell half-life and ameliorates uremic anemia induced by 5/6th PNx in C57BL/6 mice. American Journal of Physiology - Renal Physiology, 2022, 322, F655-F666.	2.7	3
61	Long Term Induction of Heme Oxygenase Ameliorates Angiotensin II Dependent Hypertension in Sprague Dawley Rats Transduced with HO1 β -Lentiviral Construct. FASEB Journal, 2011, 25, 661.4.	0.5	0
62	HO β 1 Involvement In Iron Homeostasis In Liver Of Obese Mice. FASEB Journal, 2011, 25, 661.7.	0.5	0
63	HO β 1 Induction Preserves Ferritin Function Improving Insulin Sensitivity via AKT/AMPK Signaling In Diabetic Mice. FASEB Journal, 2011, 25, 661.6.	0.5	0
64	In Vivo Administration of an EET Agonist Rescues Diet-Induced Obesity and Associated Vascular and Adipose Tissue Abnormalities in SD Rats: Contributions of the Heme-Heme Oxygenase System. FASEB Journal, 2012, 26, 819.51.	0.5	0
65	Dementia associated with chronic kidney disease is accompanied by increase in plasma amyloid beta and cardiovascular dysfunction.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e056553.	0.8	0