

Shyam Biswal

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,937
citations

185998

28
h-index

138251

58
g-index

64
all docs

64
docs citations

64
times ranked

6231
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic ablation of Nrf2 enhances susceptibility to cigarette smoke-induced emphysema in mice. <i>Journal of Clinical Investigation</i> , 2004, 114, 1248-1259.	3.9	763
2	Small Molecule Inhibitor of NRF2 Selectively Intervenes Therapeutic Resistance in KEAP1-Deficient NSCLC Tumors. <i>ACS Chemical Biology</i> , 2016, 11, 3214-3225.	1.6	364
3	Environmental determinants of cardiovascular disease: lessons learned from air pollution. <i>Nature Reviews Cardiology</i> , 2020, 17, 656-672.	6.1	352
4	Exposure to Electronic Cigarettes Impairs Pulmonary Anti-Bacterial and Anti-Viral Defenses in a Mouse Model. <i>PLoS ONE</i> , 2015, 10, e0116861.	1.1	321
5	Targeting Nrf2 with the triterpenoid CDDO-imidazolide attenuates cigarette smoke-induced emphysema and cardiac dysfunction in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 250-255.	3.3	318
6	Targeting Nrf2 Signaling Improves Bacterial Clearance by Alveolar Macrophages in Patients with COPD and in a Mouse Model. <i>Science Translational Medicine</i> , 2011, 3, 78ra32.	5.8	271
7	Lack of Effect of Oral Sulforaphane Administration on Nrf2 Expression in COPD: A Randomized, Double-Blind, Placebo Controlled Trial. <i>PLoS ONE</i> , 2016, 11, e0163716.	1.1	92
8	The NIEHS TaRGET II Consortium and environmental epigenomics. <i>Nature Biotechnology</i> , 2018, 36, 225-227.	9.4	79
9	Airborne Particulate Matter Induces Nonallergic Eosinophilic Sinonasal Inflammation in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 59-65.	1.4	75
10	Nrf2 signaling modulates cigarette smoke-induced complement activation in retinal pigmented epithelial cells. <i>Free Radical Biology and Medicine</i> , 2014, 70, 155-166.	1.3	74
11	Nrf2 in ischemic neurons promotes retinal vascular regeneration through regulation of semaphorin 6A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6927-36.	3.3	67
12	Inhibition of Cell Proliferation and AP-1 Activity by Acrolein in Human A549 Lung Adenocarcinoma Cells Due to Thiol Imbalance and Covalent Modifications. <i>Chemical Research in Toxicology</i> , 2002, 15, 180-186.	1.7	66
13	Nrf2 reduces allergic asthma in mice through enhanced airway epithelial cytoprotective function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L27-L36.	1.3	65
14	Knockout of the transcription factor Nrf2: Effects on testosterone production by aging mouse Leydig cells. <i>Molecular and Cellular Endocrinology</i> , 2015, 409, 113-120.	1.6	53
15	An inflammation-independent contraction mechanophenotype of airway smooth muscle in asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 294-297.e4.	1.5	52
16	Nrf2 is required for normal postnatal bone acquisition in mice. <i>Bone Research</i> , 2014, 2, 14033.	5.4	44
17	A Randomized Controlled Trial of the Effect of Broccoli Sprouts on Antioxidant Gene Expression and Airway Inflammation in Asthmatics. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2016, 4, 932-940.	2.0	42
18	Experimental Therapeutics of Nrf2 as a Target for Prevention of Bacterial Exacerbations in COPD. <i>Proceedings of the American Thoracic Society</i> , 2012, 9, 47-51.	3.5	41

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19	Nrf2 signaling and autophagy are complementary in protecting breast cancer cells during glucose deprivation. <i>Free Radical Biology and Medicine</i> , 2018, 120, 407-413.	1.3	39
20	Air pollutant-mediated disruption of sinonasal epithelial cell barrier function is reversed by activation of the Nrf2 pathway. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 1736-1738.e4.	1.5	37
21	Air pollution-derived particulate matter dysregulates hepatic Krebs cycle, glucose and lipid metabolism in mice. <i>Scientific Reports</i> , 2019, 9, 17423.	1.6	37
22	Field Testing of Alternative Cookstove Performance in a Rural Setting of Western India. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 1773-1787.	1.2	36
23	Immunomodulators targeting MARCO expression improve resistance to postinfluenza bacterial pneumonia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L138-L153.	1.3	36
24	Modulation of benzo[a]pyrene-induced p53 DNA activity by acrolein. <i>Carcinogenesis</i> , 2003, 24, 1401-1406.	1.3	35
25	<i>S</i> -Nitrosoglutathione Reductase Is Essential for Protecting the Female Heart From Ischemia-Reperfusion Injury. <i>Circulation Research</i> , 2018, 123, 1232-1243.	2.0	35
26	De novo lipogenesis represents a therapeutic target in mutant Kras non-small cell lung cancer. <i>FASEB Journal</i> , 2018, 32, 7018-7027.	0.2	33
27	Gestational Exposure to Sidestream (Secondhand) Cigarette Smoke Promotes Transgenerational Epigenetic Transmission of Exacerbated Allergic Asthma and Bronchopulmonary Dysplasia. <i>Journal of Immunology</i> , 2017, 198, 3815-3822.	0.4	30
28	Indoor Particulate Matter $2.5 \mu\text{m}$ in Mean Aerodynamic Diameter and Carbon Monoxide Levels During the Burning of Mosquito Coils and Their Association With Respiratory Health. <i>Chest</i> , 2016, 149, 459-466.	0.4	29
29	Electronic cigarette use behaviors and motivations among smokers and non-smokers. <i>BMC Public Health</i> , 2017, 17, 686.	1.2	28
30	Effect of sub-chronic exposure to cigarette smoke, electronic cigarette and waterpipe on human lung epithelial barrier function. <i>BMC Pulmonary Medicine</i> , 2020, 20, 216.	0.8	28
31	Reversal of cigarette smoke extract-induced sinonasal epithelial cell barrier dysfunction through Nrf2 Activation. <i>International Forum of Allergy and Rhinology</i> , 2016, 6, 1145-1150.	1.5	27
32	Exposure to Air Pollution Disrupts Circadian Rhythm through Alterations in Chromatin Dynamics. <i>IScience</i> , 2020, 23, 101728.	1.9	27
33	Strong correlation between air-liquid interface cultures and in vivo transcriptomics of nasal brush biopsy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L1056-L1062.	1.3	26
34	Genetic silencing of Nrf2 enhances X-ROS in dysferlin-deficient muscle. <i>Frontiers in Physiology</i> , 2014, 5, 57.	1.3	25
35	Synthesis and biological activity evaluation of N-protected isatin derivatives as inhibitors of ICAM-1 expression on human endothelial cells. <i>MedChemComm</i> , 2011, 2, 743.	3.5	22
36	Nrf2 regulates gene-environment interactions in an animal model of intrauterine inflammation: Implications for preterm birth and prematurity. <i>Scientific Reports</i> , 2017, 7, 40194.	1.6	21

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37	Waterpipe tobacco smoke: Characterization of toxicants and exposure biomarkers in a cross-sectional study of waterpipe employees. <i>Environment International</i> , 2019, 127, 495-502.	4.8	21
38	Aquaporin 5 regulates cigarette smoke induced emphysema by modulating barrier and immune properties of the epithelium. <i>Tissue Barriers</i> , 2013, 1, e25248.	1.6	20
39	Alpha2B-Adrenergic Receptor Overexpression in the Brain Potentiate Air Pollution-induced Behavior and Blood Pressure Changes. <i>Toxicological Sciences</i> , 2019, 169, 95-107.	1.4	20
40	NQO1 protects obese mice through improvements in glucose and lipid metabolism. <i>Npj Aging and Mechanisms of Disease</i> , 2020, 6, 13.	4.5	20
41	Epigenetic biomarkers and preterm birth. <i>Environmental Epigenetics</i> , 2020, 6, dvaa005.	0.9	19
42	Exposure to Particulate Matter Air Pollution and Anosmia. <i>JAMA Network Open</i> , 2021, 4, e2111606.	2.8	17
43	Nuclear erythroid 2-related factor 2 activation inhibits house dust mite-induced sinonasal epithelial cell barrier dysfunction. <i>International Forum of Allergy and Rhinology</i> , 2017, 7, 536-541.	1.5	16
44	Compartmentalization of anti-oxidant and anti-inflammatory gene expression in current and former smokers with COPD. <i>Respiratory Research</i> , 2019, 20, 190.	1.4	16
45	Heterocyclic chalcone activators of nuclear factor (erythroid-derived 2)-like 2 (Nrf2) with improved in vivo efficacy. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5352-5359.	1.4	14
46	Nrf2 Regulates β 2-Cell Mass by Suppressing β 2-Cell Death and Promoting β 2-Cell Proliferation. <i>Diabetes</i> , 2022, 71, 989-1011.	0.3	14
47	Impaired calcium signaling in muscle fibers from intercostal and foot skeletal muscle in a cigarette smoke-induced mouse model of COPD. <i>Muscle and Nerve</i> , 2017, 56, 282-291.	1.0	12
48	Deletion of <i>Nrf2</i> enhances susceptibility to eosinophilic sinonasal inflammation in a murine model of rhinosinusitis. <i>International Forum of Allergy and Rhinology</i> , 2019, 9, 114-119.	1.5	10
49	Disruption of Sinonasal Epithelial Nrf2 Enhances Susceptibility to Rhinosinusitis in a Mouse Model. <i>Laryngoscope</i> , 2021, 131, 713-719.	1.1	9
50	Nrf2 activation via <i>Keap1</i> deletion or sulforaphane treatment reduces Ova-induced sinonasal inflammation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 1780-1783.	2.7	8
51	Air Pollution Exposure and the Development of Chronic Rhinosinusitis in the Active Duty Population. <i>Military Medicine</i> , 2023, 188, e1965-e1969.	0.4	8
52	Immune modulation by chronic exposure to waterpipe smoke and immediate-early gene regulation in murine lungs. <i>Tobacco Control</i> , 2020, 29, s80-s89.	1.8	7
53	Particulate matter air pollution exposure disrupts the Nrf2 pathway in sinonasal epithelium via epigenetic alterations in a murine model. <i>International Forum of Allergy and Rhinology</i> , 2022, 12, 1424-1427.	1.5	5
54	S-nitrosocysteine and glutathione depletion synergize to induce cell death in human tumor cells: Insights into the redox and cytotoxic mechanisms. <i>Free Radical Biology and Medicine</i> , 2020, 160, 566-574.	1.3	3

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55	The Dark Side of NRF2: Upregulation of NRF2 as a Mechanism for Resistance to Imatinib In CML.. Blood, 2010, 116, 3401-3401.	0.6	1
56	Long-term ambient air pollution exposure and risk of sinonasal inverted papilloma. International Forum of Allergy and Rhinology, 2022, 12, 1200-1203.	1.5	1
57	Role of ROS in ischemia-induced lung angiogenesis. FASEB Journal, 2007, 21, A1217.	0.2	0
58	Utilization of oligonucleotide microarray profiles from C57BL/6J (B6) and DBA/2J (D2) mice to discover aging-related genes in the lung. FASEB Journal, 2007, 21, A1352.	0.2	0
59	Gene expression differences that explain strain variations in lung architecture. FASEB Journal, 2007, 21, A1352.	0.2	0
60	Nrf2, a Critical Regulator of Oxidative Stress, Is Required for HSC Function and Cytokine Response.. Blood, 2009, 114, 1492-1492.	0.6	0
61	<i>S-nitrosoglutathione reductase is essential for reducing ischemia-reperfusion injury in female hearts by metabolizing formaldehyde. FASEB Journal, 2018, 32, .</i>	0.2	0