Bhagavatula Moorthy

List of Publications by Year
in descending order

101	3,152	147801	189892
papers	citations	31 h-index	50 g-index

106	106	106	3733
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Attenuation of Polycyclic Aromatic Hydrocarbon (PAH)-Mediated Pulmonary DNA Adducts and Cytochrome P450 (CYP)1B1 by Dietary Antioxidants, Omega-3 Fatty Acids, in Mice. Antioxidants, 2022, 11, 119.	5.1	4
2	The Aryl Hydrocarbon Receptor (AHR): A Novel Therapeutic Target for Pulmonary Diseases?. International Journal of Molecular Sciences, 2022, 23, 1516.	4.1	15
3	The role of cytochrome P450 (CYP) enzymes in hyperoxic lung injury. Expert Opinion on Drug Metabolism and Toxicology, 2021, 17, 171-178.	3.3	13
4	Effect of sex chromosomes versus hormones in neonatal lung injury. JCI Insight, 2021, 6, .	5.0	18
5	Molecular mechanisms of pulmonary carcinogenesis by polycyclic aromatic hydrocarbons (PAHs): Implications for human lung cancer. Seminars in Cancer Biology, 2021, 76, 3-16.	9.6	80
6	Role of Human NADPH Quinone Oxidoreductase (NQO1) in Oxygen-Mediated Cellular Injury and Oxidative DNA Damage in Human Pulmonary Cells. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-13.	4.0	5
7	Epigenetic response to hyperoxia in the neonatal lung is sexually dimorphic. Redox Biology, 2020, 37, 101718.	9.0	22
8	Polycyclic Aromatic Hydrocarbon-induced Pulmonary Carcinogenesis in Cytochrome P450 (CYP)1A1- and 1A2-Null Mice: Roles of CYP1A1 and CYP1A2. Toxicological Sciences, 2020, 177, 347-361.	3.1	15
9	Molecular role of cytochrome P4501A enzymes in oxidative stress. Current Opinion in Toxicology, 2020, 20-21, 77-84.	5.0	30
10	Oxygen-mediated lung injury in mice lacking the gene for NRF2: Rescue with the cytochrome P4501A-inducer, beta-naphthoflavone (BNF), and differential sex-specific effects. Free Radical Biology and Medicine, 2020, 160, 208-218.	2.9	6
11	Potential role of drug metabolizing enzymes in chemotherapy-induced gastrointestinal toxicity and hepatotoxicity. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 1109-1124.	3.3	20
12	Lung genotoxicity of benzo(a)pyrene in vivo involves reactivation of LINE-1 retrotransposon and early reprogramming of oncogenic regulatory networks. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L816-L822.	2.9	3
13	Impact of Early Life Antibiotic Exposure and Neonatal Hyperoxia on the Murine Microbiome and Lung Injury. Scientific Reports, 2019, 9, 14992.	3.3	13
14	Pilot-Scale Pyrolytic Remediation of Crude-Oil-Contaminated Soil in a Continuously-Fed Reactor: Treatment Intensity Trade-Offs. Environmental Science & Technology, 2019, 53, 2045-2053.	10.0	43
15	Association between elevated placental polycyclic aromatic hydrocarbons (PAHs) and PAH-DNA adducts from Superfund sites in Harris County, and increased risk of preterm birth (PTB). Biochemical and Biophysical Research Communications, 2019, 516, 344-349.	2.1	35
16	Transcriptomic profiling identifies novel mechanisms of transcriptional regulation of the cytochrome P450 (Cyp)3a11 gene. Scientific Reports, 2019, 9, 6663.	3.3	14
17	Mechanistic Role of Cytochrome P450 (CYP) 1 Enzymes in Polycyclic Aromatic Hydrocarbon (PAH)â€Mediated Carcinogenesis. FASEB Journal, 2019, 33, 509.11.	0.5	0
18	Role of c-Jun-N-Terminal Kinase in Pregnane X Receptor-Mediated Induction of Human Cytochrome P4503A4 In Vitro. Drug Metabolism and Disposition, 2018, 46, 397-404.	3.3	14

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19	Role of cytochrome P450s in the generation and metabolism of reactive oxygen species. Current Opinion in Toxicology, 2018, 7, 44-51.	5.0	183
20	Î²-Naphthoflavone treatment attenuates neonatal hyperoxic lung injury in wild type and Cyp1a2-knockout mice. Toxicology and Applied Pharmacology, 2018, 339, 133-142.	2.8	11
21	Mice Lacking the Cytochrome P450 1B1 Gene Are Less Susceptible to Hyperoxic Lung Injury Than Wild Type. Toxicological Sciences, 2018, 165, 462-474.	3.1	17
22	Mechanistic Role of Cytochrome P450 1B1 in Hyperoxic Lung Injury. FASEB Journal, 2018, 32, 529.6.	0.5	0
23	Suppression of Polycyclic Aromatic Hydrocarbon (PAH)â€Mediated Pulmonary Carcinogenesis in Mice by Omegaâ€3â€Fatty acids. FASEB Journal, 2018, 32, 694.5.	0.5	0
24	Regulation of drug-metabolizing enzymes in infectious and inflammatory disease: implications for biologicsâ€“small molecule drug interactions. Expert Opinion on Drug Metabolism and Toxicology, 2017, 13, 605-616.	3.3	35
25	Leflunomide induces NAD(P)H quinone dehydrogenase 1 enzyme via the aryl hydrocarbon receptor in neonatal mice. Biochemical and Biophysical Research Communications, 2017, 485, 195-200.	2.1	4
26	Role of Cytochrome P450 (CYP)1A in Hyperoxic Lung Injury: Analysis of the Transcriptome and Proteome. Scientific Reports, 2017, 7, 642.	3.3	22
27	Newborn Mice Lacking the Gene for Cyp1a1 Are More Susceptible to Oxygen-Mediated Lung Injury, and Are Rescued by Postnatal Î²-Naphthoflavone Administration: Implications for Bronchopulmonary Dysplasia in Premature Infants. Toxicological Sciences, 2017, 157, 260-271.	3.1	23
28	Sexual dimorphism of the pulmonary transcriptome in neonatal hyperoxic lung injury: identification of angiogenesis as a key pathway. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L991-L1005.	2.9	37
29	Sex-specific differences in neonatal hyperoxic lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L481-L493.	2.9	84
30	Mechanistic role of cytochrome P450 (CYP)1B1 in oxygen-mediated toxicity in pulmonary cells: A novel target for prevention of hyperoxic lung injury. Biochemical and Biophysical Research Communications, 2016, 476, 346-351.	2.1	13
31	Gene Expression Profiling Identifies Cell Proliferation and Inflammation as the Predominant Pathways Regulated by Aryl Hydrocarbon Receptor in Primary Human Fetal Lung Cells Exposed to Hyperoxia. Toxicological Sciences, 2016, 152, 155-168.	3.1	16
32	Omeprazole induces heme oxygenase-1 in fetal human pulmonary microvascular endothelial cells via hydrogen peroxide-independent Nrf2 signaling pathway. Toxicology and Applied Pharmacology, 2016, 311, 26-33.	2.8	16
33	In Vitro Approaches to Study Regulation of Hepatic Cytochrome P450 (CYP) 3A Expression by Paclitaxel and Rifampicin. Methods in Molecular Biology, 2016, 1395, 55-68.	0.9	9
34	Omeprazole does not Potentiate Acute Oxygen Toxicity in Fetal Human Pulmonary Microvascular Endothelial Cells Exposed to Hyperoxia. Pharmaceutica Analytica Acta, 2015, 6, .	0.2	6
35	Polycyclic Aromatic Hydrocarbons: From Metabolism to Lung Cancer. Toxicological Sciences, 2015, 145, 5-15.	3.1	501
36	Can maternal DHA supplementation offer long-term protection against neonatal hyperoxic lung injury?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1383-L1386.	2.9	2

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37	Disruption of cytochrome P4501A2 in mice leads to increased susceptibility to hyperoxic lung injury. Free Radical Biology and Medicine, 2015, 82, 147-159.	2.9	28
38	Adrenomedullin deficiency potentiates hyperoxic injury in fetal human pulmonary microvascular endothelial cells. Biochemical and Biophysical Research Communications, 2015, 464, 1048-1053.	2.1	13
39	Aryl hydrocarbon receptor is necessary to protect fetal human pulmonary microvascular endothelial cells against hyperoxic injury: Mechanistic roles of antioxidant enzymes and RelB. Toxicology and Applied Pharmacology, 2015, 286, 92-101.	2.8	40
40	Role of GDF15 (growth and differentiation factor 15) in pulmonary oxygen toxicity. Toxicology in Vitro, 2015, 29, 1369-1376.	2.4	30
41	Sex-specific differences in hyperoxic lung injury in mice: Role of cytochrome P450 (CYP)1A. Toxicology, 2015, 331, 14-23.	4.2	27
42	Role of Adaptor Protein Toll-Like Interleukin Domain Containing Adaptor Inducing Interferon Â in Toll-Like Receptor 3- and 4-Mediated Regulation of Hepatic Drug Metabolizing Enzyme and Transporter Genes. Drug Metabolism and Disposition, 2015, 44, 61-67.	3.3	10
43	Leflunomide Induces Pulmonary and Hepatic CYP1A Enzymes via Aryl Hydrocarbon Receptor. Drug Metabolism and Disposition, 2015, 43, 1966-1970.	3.3	7
44	Omeprazole Attenuates Pulmonary Aryl Hydrocarbon Receptor Activation and Potentiates Hyperoxia-Induced Developmental Lung Injury in Newborn Mice. Toxicological Sciences, 2015, 148, 276-287.	3.1	22
45	Omeprazole induces NAD(P)H quinone oxidoreductase 1 via aryl hydrocarbon receptor-independent mechanisms: Role of the transcription factor nuclear factor erythroid 2â€“related factor 2. Biochemical and Biophysical Research Communications, 2015, 467, 282-287.	2.1	6
46	Mechanistic relationships between hepatic genotoxicity and carcinogenicity in male B6C3F1 mice treated with polycyclic aromatic hydrocarbon mixtures. Archives of Toxicology, 2015, 89, 967-977.	4.2	25
47	Detection of Bulky Endogenous Oxidative DNA Lesions Derived from 8,5â€²â€Cycloâ€2â€²â€deoxyadenosine by 32 Pâ€Postlabeling Assay. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2015, 64, 17.17.1-17.17.14.	1.1	6
48	Molecular Regulation of Hepatic and Pulmonary Cytochrome P4501A (CYP1A1) Enzymes by 3â€Methylcholanthrene in Mice: Role of CYP1A2. FASEB Journal, 2015, 29, 778.5.	0.5	1
49	Analysis of the Transcriptome in Hyperoxic Lung Injury and Sex-Specific Alterations in Gene Expression. PLoS ONE, 2014, 9, e101581.	2.5	26
50	Mice Deficient in the Gene for Cytochrome P450 (CYP)1A1 Are More Susceptible Than Wild-Type to Hyperoxic Lung Injury: Evidence for Protective Role of CYP1A1 Against Oxidative Stress. Toxicological Sciences, 2014, 141, 68-77.	3.1	43
51	Adenosine promotes vascular barrier function in hyperoxic lung injury. Physiological Reports, 2014, 2, e12155.	1.7	29
52	Increased susceptibility to hyperoxic lung injury and alveolar simplification in newborn rats by prenatal administration of benzo[a]pyrene. Toxicology Letters, 2014, 230, 322-332.	0.8	21
53	Differential concentration-specific effects of caffeine on cell viability, oxidative stress, and cell cycle in pulmonary oxygen toxicity in vitro. Biochemical and Biophysical Research Communications, 2014, 450, 1345-1350.	2.1	48
54	Functional deficiency of aryl hydrocarbon receptor augments oxygen toxicity-induced alveolar simplification in newborn mice. Toxicology and Applied Pharmacology, 2013, 267, 209-217.	2.8	32

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55	Sex-specific differences in hyperoxic lung injury in mice: Implications for acute and chronic lung disease in humans. Toxicology and Applied Pharmacology, 2013, 272, 281-290.	2.8	41
56	Chlorpromazine-induced hepatotoxicity during inflammation is mediated by TIRAP-dependent signaling pathway in mice. Toxicology and Applied Pharmacology, 2013, 266, 430-438.	2.8	24
57	Drug Disposition in Pathophysiological Conditions. Current Drug Metabolism, 2012, 13, 1327-1344.	1.2	70
58	Role of mammary epithelial and stromal P450 enzymes in the clearance and metabolic activation of 7,12-dimethylbenz(a)anthracene in mice. Toxicology Letters, 2012, 212, 97-105.	0.8	23
59	Transgenic humanized mice carrying the human CYP1A1â€luc promoter show augmented transcriptional activation and increased susceptibility to lung damage by hyperoxia. FASEB Journal, 2012, 26, lb545.	0.5	0
60	Augmented oxygen-mediated transcriptional activation of cytochrome P450 (CYP)1A expression and increased susceptibilities to hyperoxic lung injury in transgenic mice carrying the human CYP1A1 or mouse 1A2 promoter in vivo. Biochemical and Biophysical Research Communications, 2011, 407, 79-85.	2.1	11
61	Prenatal administration of the cytochrome P4501A inducer, Î²-naphthoflavone (BNF), attenuates hyperoxic lung injury in newborn mice: Implications for bronchopulmonary dysplasia (BPD) in premature infants. Toxicology and Applied Pharmacology, 2011, 256, 83-94.	2.8	40
62	Omeprazole attenuates hyperoxic injury in H441 cells via the aryl hydrocarbon receptor. Free Radical Biology and Medicine, 2011, 51, 1910-1917.	2.9	34
63	Omeprazole Attenuates Hyperoxic Lung Injury in Mice via Aryl Hydrocarbon Receptor Activation and Is Associated with Increased Expression of Cytochrome P4501A Enzymes. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 106-114.	2.5	28
64	Effects of Dietary Fish Oil on the Depletion of Carcinogenic PAH-DNA Adduct Levels in the Liver of B6C3F1 Mouse. PLoS ONE, 2011, 6, e26589.	2.5	16
65	Role of retinoic acid in the modulation of benzo(a)pyrene-DNA adducts in human hepatoma cells: Implications for cancer prevention. Toxicology and Applied Pharmacology, 2010, 249, 224-230.	2.8	24
66	Persistent Induction of Cytochrome P4501A1 in Human Hepatoma Cells by 3-Methylcholanthrene: Evidence for Sustained Transcriptional Activation of the CYP1A1 Promoter. Journal of Pharmacology and Experimental Therapeutics, 2010, 333, 99-109.	2.5	20
67	Disruption of the Gene forCYP1A2, which Is Expressed Primarily in Liver, Leads to Differential Regulation of Hepatic and Pulmonary Mouse CYP1A1 Expression and Augmented Human CYP1A1 Transcriptional Activation in Response to 3-Methylcholanthrene In Vivo. Journal of Pharmacology and Experimental Therapeutics, 2010, 335, 369-379.	2.5	15
68	Persistent induction of cytochrome P450 (CYP)1A enzymes by 3-methylcholanthrene in vivo in mice is mediated by sustained transcriptional activation of the corresponding promoters. Biochemical and Biophysical Research Communications, 2009, 390, 1419-1424.	2.1	13
69	Regulation of cytochrome P4501A1 expression by hyperoxia in human lung cell lines: Implications for hyperoxic lung injury. Toxicology and Applied Pharmacology, 2008, 233, 169-178.	2.8	26
70	Persistent Induction of Hepatic and Pulmonary Phase II Enzymes by 3-Methylcholanthrene in Rats. Toxicological Sciences, 2008, 102, 337-344.	3.1	17
71	Chapter 3. The CYP1A Subfamily. Issues in Toxicology, 2008, , 97-135.	0.1	12
72	3-Methylcholanthrene elicits DNA adduct formation in the CYP1A1 promoter region and attenuates reporter gene expression in rat H4IIE cells. Biochemical and Biophysical Research Communications, 2007, 354, 1071-1077.	2.1	10

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73	DNA adducts from alkoxyallylbenzene herb and spice constituents in cultured human (HepG2) cells. Environmental and Molecular Mutagenesis, 2007, 48, 715-721.	2.2	68
74	An alternatively spliced cytochrome P4501A1 in human brain fails to bioactivate polycyclic aromatic hydrocarbons to DNA-reactive metabolites. Journal of Neurochemistry, 2007, 102, 867-877.	3.9	16
75	BALT development and augmentation of hyperoxic lung injury in mice deficient in NQO1 and NQO2. Free Radical Biology and Medicine, 2006, 40, 1843-1856.	2.9	35
76	Modulation of Pulmonary Cytochrome P4501A1 Expression by Hyperoxia and Inhaled Nitric Oxide in the Newborn Rat: Implications for Lung Injury. Pediatric Research, 2006, 59, 401-406.	2.3	14
77	Attenuation of Oxygen-Induced Abnormal Lung Maturation in Rats by Retinoic Acid: Possible Role of Cytochrome P4501A Enzymes. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 946-954.	2.5	23
78	Induction of CYP1A1 and CYP1B1 in liver and lung by benzo(a)pyrene and 7,12-d imethylbenz(a)anthracene do not affect distribution of polycyclic hydrocarbons to target tissue: role of AhR and CYP1B1 in bone marrow cytotoxicity. Toxicology and Applied Pharmacology, 2005, 202, 244-257.	2.8	64
79	Attenuation of Hyperoxic Lung Injury by the CYP1A Inducer Î²â€“Naphthoflavone. Toxicological Sciences, 2005, 87, 204-212.	3.1	35
80	Effects of 3-Methylcholanthrene on Gene Expression Profiling in the Rat Using cDNA Microarray Analyses. Chemical Research in Toxicology, 2005, 18, 1634-1641.	3.3	33
81	Bioactivation of Polycyclic Aromatic Hydrocarbon Carcinogens within the vascular Wall: Implications for Human Atherogenesis. Drug Metabolism Reviews, 2005, 37, 595-610.	3.6	54
82	A Cyp1a2-Luciferase Transgenic CD-1 Mouse Model: Responses to Aryl Hydrocarbons Similar to the Humanized AhR Mice. Toxicological Sciences, 2004, 82, 297-307.	3.1	13
83	Disruption of the Ah Receptor Gene Alters the Susceptibility of Mice to Oxygen-Mediated Regulation of Pulmonary and Hepatic Cytochromes P4501A Expression and Exacerbates Hyperoxic Lung Injury. Journal of Pharmacology and Experimental Therapeutics, 2004, 310, 512-519.	2.5	65
84	Polycyclic aromatic hydrocarbon-inducible DNA adducts: Evidence by32P-postlabeling and use of knockout mice for Ah receptor-independent mechanisms of metabolic activationin vivo. International Journal of Cancer, 2003, 103, 5-11.	5.1	71
85	Role of Cytochrome P4501B1 in Benzo[a]pyrene Bioactivation to DNA-Binding Metabolites in Mouse Vascular Smooth Muscle Cells: Evidence from32P-Postlabeling for Formation of 3-Hydroxybenzo[a]pyrene and Benzo[a]pyrene-3,6-quinone as Major Proximate Genotoxic Intermediates. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 394-401.	2.5	53
86	Differential Regulation of Expression of Hepatic and Pulmonary Cytochrome P4501A Enzymes by 3-Methylcholanthrene in Mice Lacking theCYP1A2Gene. Journal of Pharmacology and Experimental Therapeutics, 2002, 303, 945-951.	2.5	16
87	The atherogen 3-methylcholanthrene induces multiple DNA adducts in mouse aortic smooth muscle cells: role of cytochrome P4501B1. Cardiovascular Research, 2002, 53, 1002-1009.	3.8	32
88	Regulation of Pulmonary and Hepatic Cytochrome P4501A Expression in the Rat by Hyperoxia: Implications for Hyperoxic Lung Injury. Molecular Pharmacology, 2002, 61, 507-515.	2.3	58
89	3-Methylcholanthrene-inducible hepatic DNA adducts: a mechanistic hypothesis linking sequence-specific DNA adducts to sustained cytochrome P4501A1 induction by 3-methylcholanthrene. Redox Report, 2002, 7, 9-13.	4.5	9
90	Comparison of immunoaffinity chromatography enrichment and nuclease P1 procedures for 32P-postlabelling analysis of PAH-DNA adducts1Dedicated to Erika Randerath, deceased August 23rd, 1997.1. Chemico-Biological Interactions, 1998, 110, 85-102.	4.0	9

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91	Induction and decline of hepatic cytochromes P4501A1 and 1A2 in rats exposed to hyperoxia are not paralleled by changes in glutathione S-transferase-Î±. Toxicology Letters, 1997, 90, 67-75.	0.8	41
92	Effects of cytochrome P450 inducers on tamoxifen genotoxicity in female mice in vivo. Biochemical Pharmacology, 1997, 53, 663-669.	4.4	14
93	Acetaminophen Binds to Mouse Hepatic and Renal DNA at Human Therapeutic Doses. Chemical Research in Toxicology, 1997, 10, 470-476.	3.3	49
94	Evidence from 32P-postlabeling and the use of pentachlorophenol for a novel metabolic activation pathway of diethylstilbestrol and its dimethyl ether in mouse liver: likely Î±-hydroxylation of ethyl group(s) followed by sulfate conjugation. Carcinogenesis, 1995, 16, 2643-2648.	2.8	16
95	Strong intensification of mouse hepatic tamoxifen DNA adduct formation by pretreatment with the sulfotransferase inhibitor and ubiquitous environmental pollutant pentachlorophenol. Carcinogenesis, 1994, 15, 797-800.	2.8	40
96	Chemical Structure- and Time-Dependent Effects of Polycyclic Aromatic Hydrocarbon-Type Inducers on Rat Liver Cytochrome P450, DNA Adducts, and I-Compounds. Fundamental and Applied Toxicology, 1994, 22, 549-560.	1.8	19
97	3-Methylcholanthrene-inducible liver cytochrome(s) P450 in female Sprague-Dawley rats: possible link between P450 turnover and formation of DNA adducts and I-compounds. Carcinogenesis, 1993, 14, 879-886.	2.8	33
98	Effects of cytochrome P450 inducers on I-compounds in rat liver and kidney DNA. Carcinogenesis, 1992, 13, 1191-1198.	2.8	27
99	Sex-specific modulation of hepatic covalent DNA modifications (I-compounds) by the cytochrome P450 inducer, pregnenolone-16Î±-carbonitrile. Toxicology and Applied Pharmacology, 1992, 113, 218-226.	2.8	15
100	Amino-terminal sequence homology of two chick kidney mitochondrial proteins immunoisolated with monoclonal antibodies to the cytochrome P450 of 25-hydroxyvitamin D3-1Î±-hydroxylase. Journal of Bone and Mineral Research, 1991, 6, 199-204.	2.8	13
101	Hepatotoxicity of pulegone in rats: Its effects on microsomal enzymes, in vivo. Toxicology, 1989, 55, 327-337.	4.2	46