

Scott W Burchiel

List of Publications by Year in descending order

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105
papers

3,566
citations

136950

32
h-index

155660

55
g-index

108
all docs

108
docs citations

108
times ranked

3700
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulmonary and Systemic Immune Response to Inhaled Multiwalled Carbon Nanotubes. <i>Toxicological Sciences</i> , 2007, 100, 203-214.	3.1	371
2	Signaling by Environmental Polycyclic Aromatic Hydrocarbons in Human Lymphocytes. <i>Clinical Immunology</i> , 2001, 98, 2-10.	3.2	193
3	Potential Risks Resulting from Fruit/Vegetable-Drug Interactions: Effects on Drug-Metabolizing Enzymes and Drug Transporters. <i>Journal of Food Science</i> , 2011, 76, R112-24.	3.1	153
4	Benzo(a)pyrene quinones increase cell proliferation, generate reactive oxygen species, and transactivate the epidermal growth factor receptor in breast epithelial cells. <i>Cancer Research</i> , 2003, 63, 7825-33.	0.9	141
5	Human T Cells Are Highly Sensitive to Suppression of Mitogenesis by Polycyclic Aromatic Hydrocarbons and This Effect Is Differentially Reversed by I±-Naphthoflavone. <i>Toxicology and Applied Pharmacology</i> , 1996, 139, 333-341.	2.8	140
6	Risks and benefits of commonly used herbal medicines in Mexico. <i>Toxicology and Applied Pharmacology</i> , 2008, 227, 125-135.	2.8	138
7	Role of alterations in calcium-associated signaling pathways in the immunotoxicity of polycyclic aromatic hydrocarbons. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 1995, 45, 101-126.	2.3	97
8	Apoptosis in Daudi Human B Cells in Response to Benzo[a]pyrene and Benzo[a]pyrene-7,8-dihydrodiol. <i>Toxicology and Applied Pharmacology</i> , 1998, 151, 367-376.	2.8	83
9	Evaluation of spin trapping agents and trapping conditions for detection of cell-generated reactive oxygen species. <i>Archives of Biochemistry and Biophysics</i> , 2005, 437, 59-68.	3.0	82
10	Drug-induced vascular injury—a quest for biomarkers. <i>Toxicology and Applied Pharmacology</i> , 2005, 203, 62-87.	2.8	81
11	Rapid and efficient purification of mouse monoclonal antibodies from ascites fluid using high performance liquid chromatography. <i>Journal of Immunological Methods</i> , 1984, 69, 33-42.	1.4	73
12	Differential Binding of Monomethylarsonous Acid Compared to Arsenite and Arsenic Trioxide with Zinc Finger Peptides and Proteins. <i>Chemical Research in Toxicology</i> , 2014, 27, 690-698.	3.3	61
13	Depletion of Glutathione by Benzo(a)pyrene Metabolites, Ionomycin, Thapsigargin, and Phorbol Myristate in Human Peripheral Blood Mononuclear Cells. <i>Toxicology and Applied Pharmacology</i> , 1997, 144, 62-69.	2.8	60
14	Alterations in Human B Cell Calcium Homeostasis by Polycyclic Aromatic Hydrocarbons: Possible Associations with Cytochrome P450 Metabolism and Increased Protein Tyrosine Phosphorylation. <i>Toxicology and Applied Pharmacology</i> , 1998, 149, 80-89.	2.8	58
15	Cytochrome P450 1B1 Is Required for 7,12-Dimethylbenz(a)-anthracene (DMBA) Induced Spleen Cell Immunotoxicity. <i>Toxicological Sciences</i> , 2005, 86, 68-74.	3.1	58
16	Activation of dioxin response element (DRE)-associated genes by benzo(a)pyrene 3,6-quinone and benzo(a)pyrene 1,6-quinone in MCF-10A human mammary epithelial cells. <i>Toxicology and Applied Pharmacology</i> , 2007, 221, 203-214.	2.8	52
17	3-Methylindole-Induced Toxicity to Human Bronchial Epithelial Cell Lines. <i>Toxicological Sciences</i> , 2003, 71, 229-236.	3.1	51
18	Temporal-spatial analysis of U.S.-Mexico border environmental fine and coarse PM air sample extract activity in human bronchial epithelial cells. <i>Toxicology and Applied Pharmacology</i> , 2009, 238, 1-10.	2.8	45

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19	DMBA-induced cytotoxicity in lymphoid and nonlymphoid organs of B6C3F1 mice: Relation of cell death to target cell intracellular calcium and DNA damage. <i>Toxicology and Applied Pharmacology</i> , 1992, 113, 126-132.	2.8	44
20	Ethanol-induced oxidative stress is associated with EGF receptor phosphorylation in MCF-10A cells overexpressing CYP2E1. <i>Toxicology Letters</i> , 2012, 209, 161-165.	0.8	44
21	Factors influencing elevation of intracellular Ca ²⁺ in the MCF-10A human mammary epithelial cell line by carcinogenic polycyclic aromatic hydrocarbons. , 1999, 25, 48-54.		43
22	Immunotoxicity and biodistribution analysis of arsenic trioxide in C57Bl/6 mice following a 2-week inhalation exposure. <i>Toxicology and Applied Pharmacology</i> , 2009, 241, 253-259.	2.8	43
23	Low-dose synergistic immunosuppression of T-dependent antibody responses by polycyclic aromatic hydrocarbons and arsenic in C57BL/6J murine spleen cells. <i>Toxicology and Applied Pharmacology</i> , 2010, 245, 344-351.	2.8	43
24	PYK2 mediates anti-apoptotic AKT signaling in response to benzo[a]pyrene diol epoxide in mammary epithelial cells. <i>Carcinogenesis</i> , 2006, 27, 2331-2340.	2.8	42
25	Principal component analysis optimization of a PM2.5 land use regression model with small monitoring network. <i>Science of the Total Environment</i> , 2012, 425, 27-34.	8.0	41
26	Inhibition of lymphocyte activation in splenic and gut-associated lymphoid tissues following oral exposure of mice to 7,12-dimethylbenz[a]anthracene. <i>Toxicology and Applied Pharmacology</i> , 1990, 105, 434-442.	2.8	40
27	Environmental polycyclic aromatic hydrocarbons, benzo(a) pyrene (BaP) and BaP-quinones, enhance IgE-mediated histamine release and IL-4 production in human basophils. <i>Clinical Immunology</i> , 2003, 107, 10-19.	3.2	40
28	Benzo[a]Pyrene Diones are Produced by Photochemical and Enzymatic Oxidation and Induce Concentration-Dependent Decreases in the Proliferative State of Human Pulmonary Epithelial Cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2003, 66, 1189-1205.	2.3	38
29	Effect of Cigarette Smoke on Autoimmunity in Murine and Human Systemic Lupus Erythematosus. <i>Toxicological Sciences</i> , 2005, 87, 86-96.	3.1	38
30	Differential Susceptibility of Human Peripheral Blood T Cells to Suppression by Environmental Levels of Sodium Arsenite and Monomethylarsonous Acid. <i>PLoS ONE</i> , 2014, 9, e109192.	2.5	36
31	Microsomal Epoxide Hydrolase Is Required for 7,12-Dimethylbenz[a]anthracene (DMBA)-Induced Immunotoxicity in Mice. <i>Toxicological Sciences</i> , 2007, 98, 137-144.	3.1	35
32	Augmentation of the in vitro humoral immune response by pharmacologic agents. I: An explanation for the differential enhancement of humoral immunity via agents that elevate cAMP. <i>Immunopharmacology</i> , 1979, 1, 137-150.	2.0	32
33	Persistent suppression of humoral immunity produced by 7,12-dimethylbenz(a)anthracene (DMBA) in B6C3F1 mice: Correlation with changes in spleen cell surface markers detected by flow cytometry. <i>International Journal of Immunopharmacology</i> , 1988, 10, 369-376.	1.1	32
34	Alterations in mitogen-induced calcium mobilization and intracellular free calcium produced by 7,12-dimethylbenz(a)anthracene in the Jurkat human T cell line. <i>International Journal of Immunopharmacology</i> , 1991, 13, 109-115.	1.1	32
35	The aryl hydrocarbon receptor antagonist, 3-methoxy-4-nitroflavone, attenuates 2,3,7,8-tetrachlorodibenzo-p-dioxin-dependent regulation of growth factor signaling and apoptosis in the MCF-10A cell line. <i>Toxicology and Applied Pharmacology</i> , 2003, 188, 42-49.	2.8	32
36	Choline sulfatase of <i>Pseudomonas aeruginosa</i> . <i>Archives of Biochemistry and Biophysics</i> , 1972, 153, 664-672.	3.0	31

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37	p53 and ATM/ATR Regulate 7,12-Dimethylbenz[<i>a</i>]anthracene-Induced Immunosuppression. <i>Molecular Pharmacology</i> , 2008, 73, 137-146.	2.3	31
38	Characterization of Intracellular Calcium Responses Produced by Polycyclic Aromatic Hydrocarbons in Surface Marker-Defined Human Peripheral Blood Mononuclear Cells. <i>Toxicology and Applied Pharmacology</i> , 1997, 145, 323-330.	2.8	30
39	Arsenite Selectively Inhibits Mouse Bone Marrow Lymphoid Progenitor Cell Development In Vivo and In Vitro and Suppresses Humoral Immunity In Vivo. <i>PLoS ONE</i> , 2014, 9, e93920.	2.5	29
40	Systemic immunotoxicity in AJ mice following 6-month whole body inhalation exposure to diesel exhaust. <i>Toxicology and Applied Pharmacology</i> , 2004, 196, 337-345.	2.8	27
41	EGF-receptor phosphorylation and downstream signaling are activated by benzo[<i>a</i>]pyrene 3,6-quinone and benzo[<i>a</i>]pyrene 1,6-quinone in human mammary epithelial cells. <i>Toxicology and Applied Pharmacology</i> , 2009, 235, 321-328.	2.8	27
42	Analysis of heavy metal immunotoxicity by multiparameter flow cytometry: Correlation of flow cytometry and immune function data in B6CF1 mice. <i>International Journal of Immunopharmacology</i> , 1987, 9, 597-610.	1.1	26
43	Differential sensitivities of bone marrow, spleen and thymus to genotoxicity induced by environmentally relevant concentrations of arsenite. <i>Toxicology Letters</i> , 2016, 262, 55-61.	0.8	26
44	Aryl hydrocarbon receptor-mediated activity of particulate organic matter from the Paso del Norte airshed along the U.S.-Mexico border.. <i>Environmental Health Perspectives</i> , 2003, 111, 1299-1305.	6.0	25
45	Uses and Future Applications of Flow Cytometry in Immunotoxicity Testing. <i>Methods</i> , 1999, 19, 28-35.	3.8	24
46	Hardwood smoke alters murine splenic T cell responses to mitogens following a 6-month whole body inhalation exposure. <i>Toxicology and Applied Pharmacology</i> , 2005, 202, 229-236.	2.8	24
47	Environmentally Relevant Concentrations of Arsenite Induce Dose-Dependent Differential Genotoxicity Through Poly(ADP-Ribose) Polymerase Inhibition and Oxidative Stress in Mouse Thymus Cells. <i>Toxicological Sciences</i> , 2016, 149, 31-41.	3.1	24
48	Assessment of arsenic and polycyclic aromatic hydrocarbon (PAH) exposures on immune function among males in Bangladesh. <i>PLoS ONE</i> , 2019, 14, e0216662.	2.5	24
49	Ryanodine Receptor-Mediated Rapid Increase in Intracellular Calcium Induced by 7,8-Benzo(<i>a</i>)Pyrene Quinone in Human and Murine Leukocytes. <i>Toxicological Sciences</i> , 2005, 87, 419-426.	3.1	23
50	Exposures to uranium and arsenic alter intraepithelial and innate immune cells in the small intestine of male and female mice. <i>Toxicology and Applied Pharmacology</i> , 2020, 403, 115155.	2.8	23
51	PGI2 and PGD2 effects on cyclic amp and human T-cell mitogenesis. <i>Prostaglandins, Leukotrienes and Essential Fatty Acids</i> , 1979, 3, 315-320.	1.1	22
52	A Bioactive Metabolite of Benzo[<i>a</i>]pyrene, Benzo[<i>a</i>]pyrene-7,8-dione, Selectively Alters Microsomal Ca ²⁺ Transport and Ryanodine Receptor Function. <i>Molecular Pharmacology</i> , 2001, 59, 506-513.	2.3	22
53	S-nitrosation on zinc finger motif of PARP-1 as a mechanism of DNA repair inhibition by arsenite. <i>Oncotarget</i> , 2016, 7, 80482-80492.	1.8	22
54	Arsenic exposures alter clinical indicators of anemia in a male population of smokers and non-smokers in Bangladesh. <i>Toxicology and Applied Pharmacology</i> , 2017, 331, 62-68.	2.8	21

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55	Isolation, Cryopreservation, and Immunophenotyping of Human Peripheral Blood Mononuclear Cells. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief [et Al]</i> , 2017, 74, 18.20.1-18.20.16.	1.1	21
56	Toxicity of environmentally-relevant concentrations of arsenic on developing T lymphocyte. <i>Environmental Toxicology and Pharmacology</i> , 2018, 62, 107-113.	4.0	21
57	Determining the Site of Spin Trapping of the Equine Myoglobin Radical by Combined Use of EPR, Electrophoretic Purification, and Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2002, 15, 1589-1594.	3.3	20
58	Monomethylarsonous acid (MMA ⁺³) Inhibits IL-7 Signaling in Mouse Pre-B Cells. <i>Toxicological Sciences</i> , 2016, 149, 289-299.	3.1	20
59	Radioimmunoimaging with ^{99m} Tc monoclonal antibodies: Clinical studies. <i>International Journal of Nuclear Medicine and Biology</i> , 1984, 11, 184-188.	0.3	19
60	Low level arsenite exposures suppress the development of bone marrow erythroid progenitors and result in anemia in adult male mice. <i>Toxicology Letters</i> , 2017, 273, 106-111.	0.8	19
61	Inhibition of calcium-dependent pathways of B-cell activation by DMBA. <i>Toxicology and Applied Pharmacology</i> , 1992, 116, 202-208.	2.8	18
62	Evaluation of land use regression models for NO ₂ in El Paso, Texas, USA. <i>Science of the Total Environment</i> , 2012, 432, 135-142.	8.0	18
63	Inhibition of red blood cell development by arsenic-induced disruption of GATA-1. <i>Scientific Reports</i> , 2020, 10, 19055.	3.3	18
64	[57] Purification and analysis of monoclonal antibodies by high-performance liquid chromatography. <i>Methods in Enzymology</i> , 1986, 121, 596-615.	1.0	17
65	Environmentally relevant concentrations of arsenite and monomethylarsonous acid inhibit IL-7/STAT5 cytokine signaling pathways in mouse CD3 ⁺ CD4 ⁺ CD8 ⁻ double negative thymus cells. <i>Toxicology Letters</i> , 2016, 247, 62-68.	0.8	16
66	Editor's Highlight: Interactive Genotoxicity Induced by Environmentally Relevant Concentrations of Benzo(a)Pyrene Metabolites and Arsenite in Mouse Thymus Cells. <i>Toxicological Sciences</i> , 2016, 154, 153-161.	3.1	16
67	Changes in human peripheral blood mononuclear cell (HPBMC) populations and T-cell subsets associated with arsenic and polycyclic aromatic hydrocarbon exposures in a Bangladesh cohort. <i>PLoS ONE</i> , 2019, 14, e0220451.	2.5	16
68	Interactions between benzo[a]pyrene and UVA light affecting ATP levels, cytoskeletal organization, and resistance to trypsinization. <i>Toxicology Letters</i> , 2000, 117, 11-23.	0.8	15
69	Polycyclic Aromatic Hydrocarbons Decrease Intracellular Glutathione Levels in the A20.1 Murine B Cell Lymphoma. <i>Fundamental and Applied Toxicology</i> , 1994, 23, 336-341.	1.8	14
70	Inhibition of sarco-endoplasmic reticulum calcium ATPases (serca) by polycyclic aromatic hydrocarbons: lack of evidence for direct effects on cloned rat enzymes. <i>International Journal of Immunopharmacology</i> , 1996, 18, 589-598.	1.1	14
71	Genotoxicity induced by monomethylarsonous acid (MMA +3) in mouse thymic developing T cells. <i>Toxicology Letters</i> , 2017, 279, 60-66.	0.8	14
72	Minimal uranium accumulation in lymphoid tissues following an oral 60-day uranyl acetate exposure in male and female C57BL/6J mice. <i>PLoS ONE</i> , 2018, 13, e0205211.	2.5	14

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73	Dibenzo[def,p]Chrysene (DBC) Suppresses Antibody Formation in Spleen Cells Following Oral Exposures of Mice. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2013, 76, 16-24.	2.3	13
74	Covalent binding of 7,12-dimethylbenz[a]anthracene to lymphoid and nonlymphoid tissues following oral administration to B6C3F1 mice. <i>Toxicology and Applied Pharmacology</i> , 1992, 113, 133-137.	2.8	11
75	Augmentation of the in vitro humoral immune response by pharmacologic agents. II: Comparison of the effects of antiproliferative agents with DBcAMP. <i>Immunopharmacology</i> , 1979, 1, 151-163.	2.0	10
76	Analysis of dibenzo[def,p]chrysene-deoxyadenosine adducts in wild-type and cytochrome P450 1b1 knockout mice using stable-isotope dilution UHPLC-MS/MS. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 782, 51-56.	1.7	10
77	Efflux Transporters Regulate Arsenite-Induced Genotoxicity in Double Negative and Double Positive T Cells. <i>Toxicological Sciences</i> , 2017, 158, 127-139.	3.1	10
78	Uptake and Toxicity of Respirable Carbon-Rich Uranium-Bearing Particles: Insights into the Role of Particulates in Uranium Toxicity. <i>Environmental Science & Technology</i> , 2021, 55, 9949-9957.	10.0	10
79	Arsenite Interacts with Dibenzo[def,p]chrysene (DBC) at Low Levels to Suppress Bone Marrow Lymphoid Progenitors in Mice. <i>Biological Trace Element Research</i> , 2015, 166, 82-88.	3.5	9
80	Arsenic exposure associated T cell proliferation, smoking, and vitamin D in Bangladeshi men and women. <i>PLoS ONE</i> , 2020, 15, e0234965.	2.5	9
81	Flow cytometry coulter volume analysis of lead- and cadmium-induced cellular alterations in bone marrow obtained from young adult and aged balb/c mice. <i>Toxicology Letters</i> , 1986, 34, 89-94.	0.8	7
82	Evaluation of Toxicity in Mouse Bone Marrow Progenitor Cells. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2016, 67, 18.9.1-18.9.12.	1.1	7
83	Polycyclic Aromatic Hydrocarbons and the Immune System. , 2014, , 1-7.		7
84	Changes in HPBMC markers of immune function following controlled short-term inhalation exposures of humans to hardwood smoke. <i>Inhalation Toxicology</i> , 2016, 28, 61-70.	1.6	6
85	Intracellular Cytokine Detection by Flow Cytometry in Surface Marker-Defined Human Peripheral Blood Mononuclear T Cells. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2017, 73, 18.19.1-18.19.14.	1.1	6
86	An increase in circulating B cells and B cell activation markers in peripheral blood is associated with cigarette smoking in a male cohort in Bangladesh. <i>Toxicology and Applied Pharmacology</i> , 2019, 384, 114783.	2.8	6
87	Arsenite and monomethylarsonous acid disrupt erythropoiesis through combined effects on differentiation and survival pathways in early erythroid progenitors. <i>Toxicology Letters</i> , 2021, 350, 111-120.	0.8	6
88	A Pathophysiologic Primary Prevention Review of Aspirin Administration to Prevent Cardiovascular Thrombosis. <i>Endocrine Practice</i> , 2020, 26, 787-793.	2.1	6
89	Clonal heterogeneity of cyclic amp responsiveness: A comparison of malignant murine lymphoid cell lines. <i>International Journal of Immunopharmacology</i> , 1984, 6, 35-42.	1.1	5
90	Minimal uranium immunotoxicity following a 60-day drinking water exposure to uranyl acetate in male and female C57BL/6J mice. <i>Toxicology and Applied Pharmacology</i> , 2019, 372, 33-39.	2.8	4

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91	Modulation of PARP activity by Monomethylarsonous (MMA+3) acid and uranium in mouse thymus. Toxicology and Applied Pharmacology, 2021, 411, 115362.	2.8	4
92	Uranium directly interacts with the DNA repair protein poly (ADP-ribose) polymerase 1. Toxicology and Applied Pharmacology, 2021, 410, 115360.	2.8	4
93	Arsenite exposure inhibits the erythroid differentiation of human hematopoietic progenitor CD34+ cells and causes decreased levels of hemoglobin. Scientific Reports, 2021, 11, 22121.	3.3	4
94	Exposure to arsenic and level of Vitamin D influence the number of Th17 cells and production of IL-17A in human peripheral blood mononuclear cells in adults. PLoS ONE, 2022, 17, e0266168.	2.5	4
95	DMBA Induces Programmed Cell Death (Apoptosis) in the A20.1 Murine B Cell Lymphoma. Toxicological Sciences, 1993, 21, 120-124.	3.1	3
96	Gamma Scintigraphy Using Tc-99m Labeled Antibody to Human Chorionic Gonadotropin. Clinical Nuclear Medicine, 1984, 9, 20-24.	1.3	1
97	Analysis of radiolabeled CHO cell-derived rHuGM-CSF pharmacokinetics and biodistribution in rhesus monkeys following intravenous and subcutaneous injection. International Journal of Immunopharmacology, 1994, 16, 75-90.	1.1	1
98	Radioimmunoimaging with Tc-99m labeled mouse monoclonal antibodies in humans. Clinical Immunology Newsletter, 1983, 4, 61-65.	0.1	0
99	Inhibition of Humoral Immunity and Mitogen Responsiveness of Lymphoid Cells Following Oral Administration of the Heterocyclic Food Mutagen 2-Amino-1-methyl-6-Phenylimidazo [4,5-b](PhIP) to B6C3F1 Mice. Toxicological Sciences, 1994, 23, 81-86.	3.1	0
100	Assessment of Immunotoxicity by Multiparameter Flow Cytometry. Toxicological Sciences, 1997, 38, 38-54.	3.1	0
101	Analysis of ethanol metabolic enzymes in primary human mammary epithelial cells and MCF10A cells: possible participation of CYP2E1 in ethanol-induced oxidative stress and epidermal growth factor receptor (EGFR) activation. FASEB Journal, 2012, 26, 758.4.	0.5	0
102	Title is missing!. , 2019, 14, e0220451.		0
103	Title is missing!. , 2019, 14, e0220451.		0
104	Title is missing!. , 2019, 14, e0220451.		0
105	Title is missing!. , 2019, 14, e0220451.		0