Nigel J Walker

List of Publications by Citations

96 papers	8,518 citations	34 h-index	92 g-index
102 ext. papers	9,180 ext. citations	5.4 avg, IF	5.31 L-index

#	Paper	IF	Citations
96	The 2005 World Health Organization reevaluation of human and Mammalian toxic equivalency factors for dioxins and dioxin-like compounds. *Toxicological Sciences*, **2006**, 93, 223-41	4.4	2683
95	Safe handling of nanotechnology. *Nature*, **2006**, 444, 267-9	50.4	1202
94	17 beta-estradiol hydroxylation catalyzed by human cytochrome P450 1B1. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 9776-81	11.5	504
93	Tech.Sight. A technique whose time has come. *Science*, **2002**, 296, 557-9	33.3	257
92	Prevalence and sociodemographic correlates of antinuclear antibodies in the United States. *Arthritis and Rheumatism*, **2012**, 64, 2319-27		241
91	Metabolism of benzo[a]pyrene and benzo[a]pyrene-7,8-diol by human cytochrome P450 1B1. *Carcinogenesis*, **1998**, 19, 1847-53	4.6	204
90	Cerium dioxide nanoparticles induce apoptosis and autophagy in human peripheral blood monocytes. *ACS Nano*, **2012**, 6, 5820-9	16.7	179
89	Migration of intradermally injected quantum dots to sentinel organs in mice. *Toxicological Sciences*, **2007**, 98, 249-57	4.4	141
88	Isolation and characterization of a novel gene induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin in rat liver. *Carcinogenesis*, **1996**, 17, 2609-15	4.6	111
87	The safety and regulation of natural products used as foods and food ingredients. *Toxicological Sciences*, **2011**, 123, 333-48	4.4	105
86	Development of a refined database of mammalian relative potency estimates for dioxin-like compounds. *Toxicological Sciences*, **2006**, 89, 4-30	4.4	103
85	Subchronic Exposure to TCDD, PeCDF, PCB126, and PCB153: Effect on Hepatic Gene Expression. *Environmental Health Perspectives*, **2004**, 112, 1636-1644	8.4	95
84	Rat CYP1B1: an adrenal cytochrome P450 that exhibits sex-dependent expression in livers and kidneys of TCDD-treated animals. *Carcinogenesis*, **1995**, 16, 1319-27	4.6	89
83	Dose-additive carcinogenicity of a defined mixture of "dioxin-like compounds". *Environmental Health Perspectives*, **2005**, 113, 43-8	8.4	85
82	Real-time and quantitative PCR: applications to mechanism-based toxicology. *Journal of Biochemical and Molecular Toxicology*, **2001**, 15, 121-7	3.4	85
81	Characterization of the dose-response of CYP1B1, CYP1A1, and CYP1A2 in the liver of female Sprague-Dawley rats following chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology and Applied Pharmacology*, **1999**, 154, 279-86	4.6	82
80	Subchronic exposure to TCDD, PeCDF, PCB126, and PCB153: effect on hepatic gene expression. *Environmental Health Perspectives*, **2004**, 112, 1636-44	8.4	81

79	Differential toxicogenomic responses to 2,3,7,8-tetrachlorodibenzo-p-dioxin in malignant and nonmalignant human airway epithelial cells. *Toxicological Sciences*, **2002**, 69, 409-23	4.4	79
78	Quantitative determination of skin penetration of PEG-coated CdSe quantum dots in dermabraded but not intact SKH-1 hairless mouse skin. *Toxicological Sciences*, **2009**, 111, 37-48	4.4	78
77	Predicting the hepatocarcinogenic potential of alkenylbenzene flavoring agents using toxicogenomics and machine learning. *Toxicology and Applied Pharmacology*, **2010**, 243, 300-14	4.6	78
76	NIEHS/FDA CLARITY-BPA research program update. *Reproductive Toxicology*, **2015**, 58, 33-44	3.4	72
75	A new approach to synergize academic and guideline-compliant research: the CLARITY-BPA research program. *Reproductive Toxicology*, **2013**, 40, 35-40	3.4	72
74	A 21st century paradigm for evaluating the health hazards of nanoscale materials?. *Toxicological Sciences*, **2009**, 110, 251-4	4.4	66
73	Evaluation of toxic equivalency factors for induction of cytochromes P450 CYP1A1 and CYP1A2 enzyme activity by dioxin-like compounds. *Toxicology and Applied Pharmacology*, **2004**, 194, 156-68	4.6	58
72	Mode of action and dose-response framework analysis for receptor-mediated toxicity: The aryl hydrocarbon receptor as a case study. *Critical Reviews in Toxicology*, **2014**, 44, 83-119	5.7	57
71	Increase in cardiovascular pathology in female Sprague-Dawley rats following chronic treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin and 3,3$4,4$5-pentachlorobiphenyl. *Cardiovascular Toxicology*, **2003**, 3, 299-310	3.4	53
70	From immunotoxicity to nanotherapy: the effects of nanomaterials on the immune system. *Toxicological Sciences*, **2014**, 138, 249-55	4.4	51
69	Induction of hepatic 8-oxo-deoxyguanosine adducts by 2,3,7,8-tetrachlorodibenzo-p-dioxin in Sprague-Dawley rats is female-specific and estrogen-dependent. *Chemical Research in Toxicology*, **2001**, 14, 849-55	4	46
68	Drug-induced expression of nonsteroidal anti-inflammatory drug-activated gene/macrophage inhibitory cytokine-1/prostate-derived factor, a putative tumor suppressor, inhibits tumor growth. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 318, 899-906	4.7	45
67	Incidences of selected lesions in control female Harlan Sprague-Dawley rats from two-year studies performed by the National Toxicology Program. *Toxicologic Pathology*, **2005**, 33, 477-83	2.1	41
66	A critical comparison of murine pathology and epidemiological data of TCDD, PCB126, and PeCDF. *Toxicologic Pathology*, **2007**, 35, 865-79	2.1	38
65	Gene expression alterations in immune system pathways in the thymus after exposure to immunosuppressive chemicals. *Environmental Health Perspectives*, **2011**, 119, 371-6	8.4	34
64	Classification of proliferative hepatocellular lesions in harlan sprague-dawley rats chronically exposed to dioxin-like compounds. *Toxicologic Pathology*, **2005**, 33, 165-74	2.1	33
63	Induction and localization of cytochrome P450 1B1 (CYP1B1) protein in the livers of TCDD-treated rats: detection using polyclonal antibodies raised to histidine-tagged fusion proteins produced and purified from bacteria. *Carcinogenesis*, **1998**, 19, 395-402	4.6	33
62	Naturally complex: Perspectives and challenges associated with Botanical Dietary Supplement Safety assessment. *Food and Chemical Toxicology*, **2018**, 118, 963-971	4.7	31

61	Gene interaction network suggests dioxin induces a significant linkage between aryl hydrocarbon receptor and retinoic acid receptor beta. *Environmental Health Perspectives*, **2004**, 112, 1217-24	8.4	28
60	Low dose assessment of the carcinogenicity of furan in male F344/N Nctr rats in a 2-year gavage study. *Food and Chemical Toxicology*, **2017**, 99, 170-181	4.7	27
59	Accumulation of M1dG DNA adducts after chronic exposure to PCBs, but not from acute exposure to polychlorinated aromatic hydrocarbons. *Free Radical Biology and Medicine*, **2008**, 45, 585-91	7.8	27
58	Dose-dependent localization of TCDD in isolated centrilobular and periportal hepatocytes. *Toxicological Sciences*, **1999**, 52, 9-19	4.4	27
57	Repeated dose toxicity and relative potency of 1,2,3,4,6,7-hexachloronaphthalene (PCN 66) 1,2,3,5,6,7-hexachloronaphthalene (PCN 67) compared to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) for induction of CYP1A1, CYP1A2 and thymic atrophy in female Harlan Sprague-Dawley rats. *Toxicology*, **2012**, 301, 85-93	4.4	26
56	Comparison of chronic toxicity and carcinogenicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in 2-year bioassays in female Sprague-Dawley rats. *Molecular Nutrition and Food Research*, **2006**, 50, 934-44	5.9	25
55	Mixtures research at NIEHS: an evolving program. *Toxicology*, **2013**, 313, 94-102	4.4	22
54	Exocrine pancreatic pathology in female Harlan Sprague-Dawley rats after chronic treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin and dioxin-like compounds. *Environmental Health Perspectives*, **2004**, 112, 903-9	8.4	22
53	Characterizing sources of variability in zebrafish embryo screening protocols. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 103-120	4.3	22
52	Physiological modeling of a proposed mechanism of enzyme induction by TCDD. *Toxicology*, **2001**, 162, 193-208	4.4	21
51	Gingival carcinogenicity in female Harlan Sprague-Dawley rats following two-year oral treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin and dioxin-like compounds. *Toxicological Sciences*, **2005**, 83, 64-77	4.4	20
50	Induction of lung lesions in female rats following chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicologic Pathology*, **2000**, 28, 761-9	2.1	20
49	Advancing human health risk assessment. *EFSA Journal*, **2019**, 17, e170712	2.3	19
48	Cerium dioxide nanoparticles do not modulate the lipopolysaccharide-induced inflammatory response in human monocytes. *International Journal of Nanomedicine*, **2012**, 7, 1387-97	7.3	19
47	Aloe vera non-decolorized whole leaf extract-induced large intestinal tumors in F344 rats share similar molecular pathways with human sporadic colorectal tumors. *Toxicologic Pathology*, **2011**, 39, 1065-74	2.1	19
46	EGR1 is a novel target for AhR agonists in human lung epithelial cells. *Toxicological Sciences*, **2004**, 82, 429-35	4.4	19
45	Screening for Developmental Neurotoxicity at the National Toxicology Program: The Future Is Here. *Toxicological Sciences*, **2019**, 167, 6-14	4.4	19
44	Absolute estimation of initial concentrations of amplicon in a real-time RT-PCR process. *BMC Bioinformatics*, **2007**, 8, 409	3.6	18

43	Respiratory tract lesions in noninhalation studies. *Toxicologic Pathology*, **2007**, 35, 170-7	2.1	18
42	Regulation of 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced tumor promotion by 17 beta-estradiol in female Sprague--Dawley rats. *Toxicology and Applied Pharmacology*, **2001**, 173, 7-17	4.6	18
41	Reproductive lesions in female Harlan Sprague-Dawley rats following two-year oral treatment with dioxin and dioxin-like compounds. *Toxicologic Pathology*, **2009**, 37, 921-37	2.1	17
40	Mechanisms of exocrine pancreatic toxicity induced by oral treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin in female Harlan Sprague-Dawley Rats. *Toxicological Sciences*, **2005**, 85, 594-606	4.4	17
39	Associations Between Selected Xenobiotics and Antinuclear Antibodies in the National Health and Nutrition Examination Survey, 1999-2004. *Environmental Health Perspectives*, **2016**, 124, 426-36	8.4	17
38	Animal Models of Human Response to Dioxins. *Environmental Health Perspectives*, **1998**, 106, 761	8.4	16
37	The putative tumor suppressor Tsc-22 is downregulated early in chemically induced hepatocarcinogenesis and may be a suppressor of Gadd45b. *Toxicological Sciences*, **2007**, 99, 43-50	4.4	16
36	Respiratory toxicity and immunotoxicity evaluations of microparticle and nanoparticle C60 fullerene aggregates in mice and rats following nose-only inhalation for 13 weeks. *Nanotoxicology*, **2016**, 10, 1458-1468	5.3	15
35	Characterization of bronchiolar metaplasia of the alveolar epithelium in female Sprague-Dawley rats exposed to 3,3$,4,4$,5-pentachlorobiphenyl (PCB126). *Toxicologic Pathology*, **2004**, 32, 333-7	2.1	15
34	Olfactory epithelial metaplasia and hyperplasia in female Harlan Sprague-Dawley rats following chronic treatment with polychlorinated biphenyls. *Toxicologic Pathology*, **2005**, 33, 371-7	2.1	15
33	Expanding the Concept of Translational Research: Making a Place for Environmental Health Sciences. *Environmental Health Perspectives*, **2018**, 126, 074501	8.4	15
32	ONE Nano: NIEHS's strategic initiative on the health and safety effects of engineered nanomaterials. *Environmental Health Perspectives*, **2013**, 121, 410-4	8.4	14
31	Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) enhances triggered afterdepolarizations in rat ventricular myocytes. *Cardiovascular Toxicology*, **2006**, 6, 99-110	3.4	14
30	Effects of TCDD upon IkappaB and IKK subunits localized in microsomes by proteomics. *Archives of Biochemistry and Biophysics*, **2002**, 406, 153-64	4.1	14
29	t workshop report. Nanotoxicology: "the end of the beginning" - signs on the roadmap to a strategy for assuring the safe application and use of nanomaterials. *ALTEX: Alternatives To Animal Experimentation*, **2011**, 28, 236-41	4.3	14
28	Differences in kinetics of induction and reversibility of TCDD-induced changes in cell proliferation and CYP1A1 expression in female Sprague-Dawley rat liver. *Carcinogenesis*, **1998**, 19, 1427-35	4.6	13
27	Polychlorinated Biphenyls Induce Oxidative DNA Adducts in Female Sprague-Dawley Rats. *Chemical Research in Toxicology*, **2016**, 29, 1335-1344	4	12
26	Follicular epithelial cell hypertrophy induced by chronic oral administration of 2,3,7,8-tetrachlorodibenzo-p-dioxin in female Harlan Sprague-Dawley rats. *Toxicologic Pathology*, **2004**, 32, 41-9	2.1	12

25	Relative potency for altered humoral immunity induced by polybrominated and polychlorinated dioxins/furans in female B6C3F1/N mice. *Toxicological Sciences*, **2014**, 139, 488-500	4.4	10
24	Impact of physiologically based pharmacokinetic modeling on benchmark dose calculations for TCDD-induced biochemical responses. *Regulatory Toxicology and Pharmacology*, **2002**, 36, 287-96	3.4	10
23	Hepatocarcinogenesis in female Sprague-Dawley rats following discontinuous treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicological Sciences*, **2000**, 54, 330-7	4.4	10
22	Getting to the Root of the Matter: Challenges and Recommendations for Assessing the Safety of Botanical Dietary Supplements. *Clinical Pharmacology and Therapeutics*, **2018**, 104, 429-431	6.1	9
21	Pulmonary lesions in female Harlan Sprague-Dawley rats following two-year oral treatment with dioxin-like compounds. *Toxicologic Pathology*, **2007**, 35, 880-9	2.1	9
20	Oral and dermal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induces cutaneous papillomas and squamous cell carcinomas in female hemizygous Tg.AC transgenic mice. *Toxicological Sciences*, **2004**, 82, 34-45	4.4	9
19	Toxicity of chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in diethylnitrosamine-initiated ovariectomized rats implanted with subcutaneous 17 beta-estradiol pellets. *Toxicological Sciences*, **2000**, 54, 493-9	4.4	9
18	Lung deposition and clearance of microparticle and nanoparticle C60 fullerene aggregates in B6C3F1 mice and Wistar Han rats following nose-only inhalation for 13 weeks. *Toxicology*, **2016**, 339, 87-96	4.4	8
17	Thyroid follicular lesions induced by oral treatment for 2 years with 2,3,7,8-tetrachlorodibenzo-p-dioxin and dioxin-like compounds in female Harlan Sprague-Dawley rats. *Toxicologic Pathology*, **2010**, 38, 1037-50	2.1	8
16	Unraveling the complexities of the mechanism of action of dioxins. *Toxicological Sciences*, **2007**, 95, 297-9	4.4	8
15	Promotion of altered hepatic foci by 2,3,7,8-tetrachlorodibenzo-p-dioxin and 17beta-estradiol in male Sprague-Dawley rats. *Toxicological Sciences*, **2002**, 68, 295-303	4.4	8
14	Endotoxin (lipopolysaccharide)-induced nitric oxide production in 2,3,7,8-tetrachlorodibenzo-p-dioxin-treated Fischer rats: detection of nitrosyl hemoproteins by EPR spectroscopy. *Chemical Research in Toxicology*, **2000**, 13, 1051-5	4	8
13	Inhalation exposure to multi-walled carbon nanotubes alters the pulmonary allergic response of mice to house dust mite allergen. *Inhalation Toxicology*, **2019**, 31, 192-202	2.7	7
12	Using Tox21 High-Throughput Screening Assays for the Evaluation of Botanical and Dietary Supplements. *Applied in Vitro Toxicology*, **2019**, 5, 10-25	1.3	6
11	Area under the curve as a dose metric for promotional responses following 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure. *Toxicology and Applied Pharmacology*, **2003**, 191, 12-21	4.6	6
10	Complexities in understanding the nature of the dose-response for dioxins and related compounds. *Dose-Response*, **2006**, 3, 267-72	2.3	6
9	DNA Product Formation in Female Sprague-Dawley Rats Following Polyhalogenated Aromatic Hydrocarbon (PHAH) Exposure. *Chemical Research in Toxicology*, **2017**, 30, 794-803	4	5
8	Characterization of an assortment of commercially available multiwalled carbon nanotubes. *Mikrochimica Acta*, **2014**, 181, 171-179	5.8	3

List of Publications

7	Development of a consensus approach for botanical safety evaluation - A roundtable report. *Toxicology Letters*, **2019**, 314, 10-17	4.4	2
6	Disposition of fullerene C60 in rats following intratracheal or intravenous administration. *Xenobiotica*, **2019**, 49, 1078-1085	2	2
5	Toxicology of Dioxins and Dioxinlike Compounds **2005**, 137-157		1
4	Receptor Mediated Toxicity: The Dioxin Receptor as an Example of Biological Complexity and Experimental Approaches **1995**, 21-35		1
3	Real-Time and Quantitative PCR **2005**, 147-163		
2	Experimental Toxicology: Carcinogenesis **2005**, 457-490		
1	Dose-Response Modeling for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin **2005**, 247-298		