

Jennifer L Freeman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

5,779
citations

27
h-index

76
g-index

85
ext. papers

6,740
ext. citations

5.6
avg, IF

5.51
L-index

#	Paper	IF	Citations
79	Global variation in copy number in the human genome. <i>Nature</i> , 2006 , 444, 444-54	50.4	3306
78	Copy number variation: new insights in genome diversity. <i>Genome Research</i> , 2006 , 16, 949-61	9.7	580
77	Use of Zebrafish in Drug Discovery Toxicology. <i>Chemical Research in Toxicology</i> , 2020 , 33, 95-118	4	145
76	Making Waves: New Developments in Toxicology With the Zebrafish. <i>Toxicological Sciences</i> , 2018 , 163, 5-12	4.4	95
75	Extensive genetic diversity and substructuring among zebrafish strains revealed through copy number variant analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 529-34	11.5	87
74	A mutation in separase causes genome instability and increased susceptibility to epithelial cancer. <i>Genes and Development</i> , 2007 , 21, 55-9	12.6	84
73	Zebrafish as a model for investigating developmental lead (Pb) neurotoxicity as a risk factor in adult neurodegenerative disease: a mini-review. <i>NeuroToxicology</i> , 2014 , 43, 57-64	4.4	73
72	Transcriptome alterations following developmental atrazine exposure in zebrafish are associated with disruption of neuroendocrine and reproductive system function, cell cycle, and carcinogenesis. <i>Toxicological Sciences</i> , 2013 , 132, 458-66	4.4	73
71	Zebrafish Get Connected: Investigating Neurotransmission Targets and Alterations in Chemical Toxicity. <i>Toxics</i> , 2016 , 4,	4.7	68
70	MicroRNA-223 Suppresses the Canonical NF- κ B Pathway in Basal Keratinocytes to Dampen Neutrophilic Inflammation. <i>Cell Reports</i> , 2018 , 22, 1810-1823	10.6	65
69	RNA isolation from embryonic zebrafish and cDNA synthesis for gene expression analysis. <i>Journal of Visualized Experiments</i> , 2009 ,	1.6	55
68	An embryonic atrazine exposure results in reproductive dysfunction in adult zebrafish and morphological alterations in their offspring. <i>Scientific Reports</i> , 2016 , 6, 21337	4.9	54
67	Global gene expression analysis reveals dynamic and developmental stage-dependent enrichment of lead-induced neurological gene alterations. <i>Environmental Health Perspectives</i> , 2011 , 119, 615-21	8.4	53
66	Lead (Pb) exposure reduces global DNA methylation level by non-competitive inhibition and alteration of dnmt expression. <i>Metallomics</i> , 2017 , 9, 149-160	4.5	47
65	Notch activation drives adipocyte dedifferentiation and tumorigenic transformation in mice. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2019-37	16.6	46
64	Novel dose-dependent alterations in excitatory GABA during embryonic development associated with lead (Pb) neurotoxicity. <i>Toxicology Letters</i> , 2014 , 229, 1-8	4.4	45
63	Directional and color preference in adult zebrafish: Implications in behavioral and learning assays in neurotoxicology studies. <i>Journal of Applied Toxicology</i> , 2015 , 35, 1502-10	4.1	44

62	Stage-specific effects of Notch activation during skeletal myogenesis. <i>ELife</i> , 2016 , 5,	8.9	44
61	Developmental origins of neurotransmitter and transcriptome alterations in adult female zebrafish exposed to atrazine during embryogenesis. <i>Toxicology</i> , 2015 , 333, 156-167	4.4	43
60	Decreased axonal density and altered expression profiles of axonal guidance genes underlying lead (Pb) neurodevelopmental toxicity at early embryonic stages in the zebrafish. <i>Neurotoxicology and Teratology</i> , 2011 , 33, 715-20	3.9	43
59	Embryonic atrazine exposure alters zebrafish and human miRNAs associated with angiogenesis, cancer, and neurodevelopment. <i>Food and Chemical Toxicology</i> , 2016 , 98, 25-33	4.7	41
58	Definition of the zebrafish genome using flow cytometry and cytogenetic mapping. <i>BMC Genomics</i> , 2007 , 8, 195	4.5	38
57	Developmental impact of atrazine on metamorphosing <i>Xenopus laevis</i> as revealed by nuclear analysis and morphology. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 1648-53	3.8	38
56	Atrazine Exposure and Reproductive Dysfunction through the Hypothalamus-Pituitary-Gonadal (HPG) Axis. <i>Toxics</i> , 2015 , 3, 414-450	4.7	37
55	Atrazine exposure decreases the activity of DNMTs, global DNA methylation levels, and dnmt expression. <i>Food and Chemical Toxicology</i> , 2017 , 109, 727-734	4.7	34
54	Toxicogenomics to Evaluate Endocrine Disrupting Effects of Environmental Chemicals Using the Zebrafish Model. <i>Current Genomics</i> , 2016 , 17, 515-527	2.6	33
53	Differential metamorphosis alters the endocrine response in anuran larvae exposed to T3 and atrazine. <i>Aquatic Toxicology</i> , 2005 , 75, 263-76	5.1	30
52	Exposure route affects the distribution and toxicity of polystyrene nanoplastics in zebrafish. <i>Science of the Total Environment</i> , 2020 , 724, 138065	10.2	25
51	Design and Synthesis of Chlorinated and Fluorinated 7-Azaindenoisoquinolines as Potent Cytotoxic Anticancer Agents That Inhibit Topoisomerase I. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 5364-5376	8.3	25
50	Embryonic Atrazine Exposure Elicits Alterations in Genes Associated with Neuroendocrine Function in Adult Male Zebrafish. <i>Toxicological Sciences</i> , 2016 , 153, 149-64	4.4	23
49	Developmental reelin expression and time point-specific alterations from lead exposure in zebrafish. <i>Neurotoxicology and Teratology</i> , 2013 , 38, 53-60	3.9	23
48	Embryonic ionizing radiation exposure results in expression alterations of genes associated with cardiovascular and neurological development, function, and disease and modified cardiovascular function in zebrafish. <i>Frontiers in Genetics</i> , 2014 , 5, 268	4.5	23
47	Evidence for a transposition event in a second NITR gene cluster in zebrafish. <i>Immunogenetics</i> , 2008 , 60, 257-65	3.2	22
46	Zebrafish as an Emerging Model for Bioassay-Guided Natural Product Drug Discovery for Neurological Disorders. <i>Medicines (Basel, Switzerland)</i> , 2019 , 6,	4.1	21
45	Embryonic atrazine exposure elicits proteomic, behavioral, and brain abnormalities with developmental time specific gene expression signatures. <i>Journal of Proteomics</i> , 2018 , 186, 71-82	3.9	20

44	Construction and application of a zebrafish array comparative genomic hybridization platform. <i>Genes Chromosomes and Cancer</i> , 2009 , 48, 155-70	5	20
43	Aquatic herbicides and herbicide contaminants: In vitro cytotoxicity and cell-cycle analysis. <i>Environmental Toxicology</i> , 2006 , 21, 256-63	4.2	20
42	Embryonic exposure to 10 µg L(-1) lead results in female-specific expression changes in genes associated with nervous system development and function and Alzheimer's disease in aged adult zebrafish brain. <i>Metallomics</i> , 2016 , 8, 589-96	4.5	18
41	Mitochondrial Dysfunction, Disruption of F-Actin Polymerization, and Transcriptomic Alterations in Zebrafish Larvae Exposed to Trichloroethylene. <i>Chemical Research in Toxicology</i> , 2016 , 29, 169-79	4	18
40	Zebrafish as a Model for Developmental Neurotoxicity Assessment: The Application of the Zebrafish in Defining the Effects of Arsenic, Methylmercury, or Lead on Early Neurodevelopment. <i>Toxics</i> , 2014 , 2, 464-495	4.7	18
39	Zebrafish as an integrative vertebrate model to identify miRNA mechanisms regulating toxicity. <i>Toxicology Reports</i> , 2020 , 7, 559-570	4.8	16
38	Profiling epigenetic changes in human cell line induced by atrazine exposure. <i>Environmental Pollution</i> , 2020 , 258, 113712	9.3	12
37	Comparative Assessment of Tungsten Toxicity in the Absence or Presence of Other Metals. <i>Toxics</i> , 2018 , 6,	4.7	11
36	Chemical and Genetic Zebrafish Models to Define Mechanisms of and Treatments for Dopaminergic Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
35	Embryonic atrazine exposure and later in life behavioral and brain transcriptomic, epigenetic, and pathological alterations in adult male zebrafish. <i>Cell Biology and Toxicology</i> , 2021 , 37, 421-439	7.4	10
34	Comparative analytical and toxicological assessment of methylcyclohexanemethanol (MCHM) mixtures associated with the Elk River chemical spill. <i>Chemosphere</i> , 2017 , 188, 599-607	8.4	9
33	Sex-specific characterization and evaluation of the Alzheimer's disease genetic risk factor sorl1 in zebrafish during aging and in the adult brain following a 100 ppb embryonic lead exposure. <i>Journal of Applied Toxicology</i> , 2017 , 37, 400-407	4.1	9
32	Cancer cytogenetics in the zebrafish. <i>Zebrafish</i> , 2009 , 6, 355-60	2	9
31	Real-Time Multiplex Kinase Phosphorylation Sensors in Living Cells. <i>ACS Sensors</i> , 2017 , 2, 1225-1230	9.2	8
30	Metamorphosis in <i>Xenopus laevis</i> is not associated with large-scale nuclear DNA content variation. <i>Journal of Experimental Biology</i> , 2004 , 207, 4473-7	3	8
29	Developmental toxicity of trichloroethylene in zebrafish (<i>Danio rerio</i>). <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 728-739	4.3	8
28	Comparison of zebrafish in vitro and in vivo developmental toxicity assessments of perfluoroalkyl acids (PFAAs). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2021 , 84, 125-136	3.2	8
27	Low dose lead exposure induces alterations on heterochromatin hallmarks persisting through SH-SY5Y cell differentiation. <i>Chemosphere</i> , 2021 , 264, 128486	8.4	8

26	Pre-differentiation exposure to low-dose of atrazine results in persistent phenotypic changes in human neuronal cell lines. <i>Environmental Pollution</i> , 2021 , 271, 116379	9.3	8
25	Atrazine exposure elicits copy number alterations in the zebrafish genome. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017 , 194, 1-8	3.2	7
24	Embryonic exposure to an aqueous coal dust extract results in gene expression alterations associated with the development and function of connective tissue and the hematological system, immunological and inflammatory disease, and cancer in zebrafish. <i>Metallomics</i> , 2018 , 10, 463-473	4.5	7
23	Chemical Exposure Generates DNA Copy Number Variants and Impacts Gene Expression. <i>Advances in Toxicology</i> , 2014 , 2014, 1-13		7
22	Developmental atrazine exposure in zebrafish produces the same major metabolites as mammals along with altered behavioral outcomes. <i>Neurotoxicology and Teratology</i> , 2021 , 85, 106971	3.9	7
21	Alzheimer's disease risk genes in wild-type adult zebrafish exhibit gender-specific expression changes during aging. <i>Neurogenetics</i> , 2016 , 17, 197-9	3	7
20	An embryonic 100µg/L lead exposure results in sex-specific expression changes in genes associated with the neurological system in female or cancer in male adult zebrafish brains. <i>Neurotoxicology and Teratology</i> , 2018 , 65, 60-69	3.9	5
19	Molecular cytogenetic methodologies and a BAC probe panel resource for genomic analyses in the zebrafish. <i>Methods in Cell Biology</i> , 2011 , 104, 237-57	1.8	5
18	Regulatory landscape and clinical implication of MBD3 in human malignant glioma. <i>Oncotarget</i> , 2016 , 7, 81698-81714	3.3	5
17	Letter to the Editor. <i>Birth Defects Research</i> , 2019 , 111, 1234-1236	2.9	3
16	Toxicogenomic Evaluation Using the Zebrafish Model System 2017 , 1-19		2
15	Global gene expression analysis using a zebrafish oligonucleotide microarray platform. <i>Journal of Visualized Experiments</i> , 2009 ,	1.6	2
14	Mechanisms of Neurotoxicity Associated with Exposure to the Herbicide Atrazine. <i>Toxics</i> , 2021 , 9,	4.7	2
13	Zebrafish as a Tool to Assess Developmental Neurotoxicity. <i>Neuromethods</i> , 2019 , 169-193	0.4	1
12	Exposure to the Heavy-Metal Lead Induces DNA Copy Number Alterations in Zebrafish Cells. <i>Chemical Research in Toxicology</i> , 2020 , 33, 2047-2053	4	1
11	Molecular Epigenetic Changes Caused by Environmental Pollutants 2012 , 73-109		1
10	Fishing for microRNAs in Toxicology 2013 , 49-75		1
9	Microarray, IPA and GSEA Analysis in Mice Models. <i>Bio-protocol</i> , 2018 , 8,	0.9	1

- 8 Integrated Analysis of Methylome and Transcriptome Following Developmental Atrazine Exposure in Zebrafish Reveals Aberrant Gene-Specific Methylation of Neuroendocrine and Reproductive Pathways 1
- 7 Atrazine exposure in zebrafish induces aberrant genome-wide methylation.. *Neurotoxicology and Teratology*, **2022**, 107091 3.9 0
- 6 Guiding Patient Decision-Making Regarding Bone Marrow Donation. *Journal for Nurse Practitioners*, **2014**, 10, 113-119 0.6
- 5 Lead exposure induces dysregulation of constitutive heterochromatin hallmarks in live cells.. *Current Research in Toxicology*, **2022**, 3, 100061 2.7
- 4 Toxicity testing of natural products using the zebrafish model system **2022**, 531-554
- 3 Developmental neurotoxicity of the herbicide atrazine **2021**, 219-228
- 2 Characterization of Genomic and Epigenomic Biomarkers of Nanoparticle Toxicity Using the Zebrafish Model System **2022**, 449-475
- 1 The Role of Dynamic Epigenetic Changes in Modulating Homeostasis after Exposure to Low-dose Environmental Chemicals **2022**, 213-228