

# Joshua A Harrill

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,692  
citations

331259

21  
h-index

377514

34  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurobehavioral toxicology of pyrethroid insecticides in adult animals: A critical review. <i>Neurotoxicology and Teratology</i> , 2008, 30, 55-78.	1.2	255
2	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. <i>Toxicological Sciences</i> , 2019, 169, 317-332.	1.4	225
3	In Vitro Assessment of Developmental Neurotoxicity: Use of Microelectrode Arrays to Measure Functional Changes in Neuronal Network Ontogeny <sup>1</sup> . <i>Frontiers in Neuroengineering</i> , 2011, 4, 1.	4.8	108
4	Use of high content image analysis to detect chemical-induced changes in synaptogenesis in vitro. <i>Toxicology in Vitro</i> , 2011, 25, 368-387.	1.1	98
5	Quantitative assessment of neurite outgrowth in human embryonic stem cell-derived hN2a cells using automated high-content image analysis. <i>NeuroToxicology</i> , 2010, 31, 277-290.	1.4	96
6	High-Throughput Transcriptomics Platform for Screening Environmental Chemicals. <i>Toxicological Sciences</i> , 2021, 181, 68-89.	1.4	79
7	Bioactivity screening of environmental chemicals using imaging-based high-throughput phenotypic profiling. <i>Toxicology and Applied Pharmacology</i> , 2020, 389, 114876.	1.3	71
8	Comparative sensitivity of human and rat neural cultures to chemical-induced inhibition of neurite outgrowth. <i>Toxicology and Applied Pharmacology</i> , 2011, 256, 268-280.	1.3	70
9	Knockout of the aryl hydrocarbon receptor results in distinct hepatic and renal phenotypes in rats and mice. <i>Toxicology and Applied Pharmacology</i> , 2013, 272, 503-518.	1.3	67
10	Comparison of chemical-induced changes in proliferation and apoptosis in human and mouse neuroprogenitor cells. <i>NeuroToxicology</i> , 2012, 33, 1499-1510.	1.4	65
11	Testing for developmental neurotoxicity using a battery of in vitro assays for key cellular events in neurodevelopment. <i>Toxicology and Applied Pharmacology</i> , 2018, 354, 24-39.	1.3	59
12	Considerations for strategic use of high-throughput transcriptomics chemical screening data in regulatory decisions. <i>Current Opinion in Toxicology</i> , 2019, 15, 64-75.	2.6	58
13	Use of high content image analyses to detect chemical-mediated effects on neurite sub-populations in primary rat cortical neurons. <i>NeuroToxicology</i> , 2013, 34, 61-73.	1.4	51
14	Progress towards an OECD reporting framework for transcriptomics and metabolomics in regulatory toxicology. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 125, 105020.	1.3	46
15	Ontogeny of biochemical, morphological and functional parameters of synaptogenesis in primary cultures of rat hippocampal and cortical neurons. <i>Molecular Brain</i> , 2015, 8, 10.	1.3	44
16	Neurotrophic Effects of Leukemia Inhibitory Factor on Neural Cells Derived from Human Embryonic Stem Cells. <i>Stem Cells</i> , 2012, 30, 2387-2399.	1.4	36
17	Vision of a near future: Bridging the human health environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020, 62, 104692.	1.1	33
18	Phenotypic Profiling of Reference Chemicals across Biologically Diverse Cell Types Using the Cell Painting Assay. <i>SLAS Discovery</i> , 2020, 25, 755-769.	1.4	33

#	ARTICLE	IF	CITATIONS
19	Lineage-dependent effects of aryl hydrocarbon receptor agonists contribute to liver tumorigenesis. <i>Hepatology</i> , 2015, 61, 548-560.	3.6	28
20	Quantitative Assessment of Neurite Outgrowth in PC12 Cells. <i>Methods in Molecular Biology</i> , 2011, 758, 331-348.	0.4	25
21	Aryl hydrocarbon receptor knockout rats are insensitive to the pathological effects of repeated oral exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. <i>Journal of Applied Toxicology</i> , 2016, 36, 802-814.	1.4	23
22	Integrating Data From <i>In Vitro</i> New Approach Methodologies for Developmental Neurotoxicity. <i>Toxicological Sciences</i> , 2022, 187, 62-79.	1.4	20
23	Transcriptional response of rat frontal cortex following acute <i>In Vivo</i> exposure to the pyrethroid insecticides permethrin and deltamethrin. <i>BMC Genomics</i> , 2008, 9, 546.	1.2	19
24	Immunological characterization of the aryl hydrocarbon receptor (AHR) knockout rat in the presence and absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). <i>Toxicology</i> , 2016, 368-369, 172-182.	2.0	17
25	Comparison of Approaches for Determining Bioactivity Hits from High-Dimensional Profiling Data. <i>SLAS Discovery</i> , 2021, 26, 292-308.	1.4	14
26	Time and concentration dependent accumulation of [3H]-deltamethrin in <i>Xenopus laevis</i> oocytes. <i>Toxicology Letters</i> , 2005, 157, 79-88.	0.4	13
27	Media formulation influences chemical effects on neuronal growth and morphology. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 612-629.	0.7	12
28	Combining phenotypic profiling and targeted RNA-Seq reveals linkages between transcriptional perturbations and chemical effects on cell morphology: Retinoic acid as an example. <i>Toxicology and Applied Pharmacology</i> , 2022, 444, 116032.	1.3	8
29	Estimating Hepatotoxic Doses Using High-Content Imaging in Primary Hepatocytes. <i>Toxicological Sciences</i> , 2021, 183, 285-301.	1.4	5
30	Benchmark Dose Modeling Approaches for Volatile Organic Chemicals Using a Novel Air-Liquid Interface <i>In Vitro</i> Exposure System. <i>Toxicological Sciences</i> , 2022, 188, 88-107.	1.4	5
31	Human-Derived Neurons and Neural Progenitor Cells in High Content Imaging Applications. <i>Methods in Molecular Biology</i> , 2018, 1683, 305-338.	0.4	4
32	Comments on: Effect of prenatal exposure of deltamethrin on the ontogeny of xenobiotic metabolizing cytochrome P450s in the brain and liver of offsprings [Johri et al. <i>Toxicol Appl Pharmacol.</i> 214:279-289, 2006]. <i>Toxicology and Applied Pharmacology</i> , 2007, 218, 96-97.	1.3	2
33	Splice variant specific increase in Ca <sup>2+</sup> /calmodulin-dependent protein kinase 1 $\gamma$ mRNA expression in response to acute pyrethroid exposure. <i>Journal of Biochemical and Molecular Toxicology</i> , 2010, 24, 174-186.	1.4	2
34	Optimization of Human Neural Progenitor Cells for an Imaging-Based High-Throughput Phenotypic Profiling Assay for Developmental Neurotoxicity Screening. <i>Frontiers in Toxicology</i> , 2021, 3, 803987.	1.6	1