

Stephanie Padilla

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124
papers

6,150
citations

39
h-index

76
g-index

128
ext. papers

6,626
ext. citations

4.1
avg, IF

5.42
L-index

#	Paper	IF	Citations
124	Update on EPA's ToxCast program: providing high throughput decision support tools for chemical risk management. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1287-302	4	357
123	Common Mechanism of Toxicity: A Case Study of Organophosphorus Pesticides. <i>Toxicological Sciences</i> , 1998 , 41, 8-20	4.4	333
122	Locomotion in larval zebrafish: Influence of time of day, lighting and ethanol. <i>NeuroToxicology</i> , 2009 , 30, 52-8	4.4	285
121	Zebrafish developmental screening of the ToxCast Phase I chemical library. <i>Reproductive Toxicology</i> , 2012 , 33, 174-87	3.4	228
120	Cellular mechanisms for developmental toxicity of chlorpyrifos: targeting the adenylyl cyclase signaling cascade. <i>Toxicology and Applied Pharmacology</i> , 1997 , 145, 158-74	4.6	223
119	Acute neuroactive drug exposures alter locomotor activity in larval zebrafish. <i>Neurotoxicology and Teratology</i> , 2010 , 32, 84-90	3.9	199
118	Zebrafish: as an integrative model for twenty-first century toxicity testing. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011 , 93, 256-67		195
117	Age- and gender-related differences in the time course of behavioral and biochemical effects produced by oral chlorpyrifos in rats. <i>Toxicology and Applied Pharmacology</i> , 1998 , 149, 107-19	4.6	172
116	Assessing locomotor activity in larval zebrafish: Influence of extrinsic and intrinsic variables. <i>Neurotoxicology and Teratology</i> , 2011 , 33, 624-30	3.9	138
115	Age- and Gender-Related Differences in Sensitivity to Chlorpyrifos in the Rat Reflect Developmental Profiles of Esterase Activities. <i>Toxicological Sciences</i> , 1998 , 46, 211-222	4.4	135
114	Silver nanoparticles alter zebrafish development and larval behavior: distinct roles for particle size, coating and composition. <i>Neurotoxicology and Teratology</i> , 2011 , 33, 708-14	3.9	127
113	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. <i>Toxicological Sciences</i> , 2019 , 169, 317-332	4.4	121
112	Acute and developmental behavioral effects of flame retardants and related chemicals in zebrafish. <i>Neurotoxicology and Teratology</i> , 2015 , 52, 194-209	3.9	120
111	Use of alternative assays to identify and prioritize organophosphorus flame retardants for potential developmental and neurotoxicity. <i>Neurotoxicology and Teratology</i> , 2015 , 52, 181-93	3.9	119
110	Tissue-Specific Effects of Chlorpyrifos on Carboxylesterase and Cholinesterase Activity in Adult Rats: An In Vitro and In Vivo Comparison. <i>Fundamental and Applied Toxicology</i> , 1997 , 38, 148-157		119
109	Maturational differences in chlorpyrifos-oxonase activity may contribute to age-related sensitivity to chlorpyrifos. <i>Journal of Biochemical Toxicology</i> , 1996 , 11, 279-87		115
108	Gene expression changes in developing zebrafish as potential markers for rapid developmental neurotoxicity screening. <i>Neurotoxicology and Teratology</i> , 2010 , 32, 91-8	3.9	109

107	Acute administration of dopaminergic drugs has differential effects on locomotion in larval zebrafish. <i>Pharmacology Biochemistry and Behavior</i> , 2013 , 103, 792-813	3.9	106
106	Developmental exposure to organophosphate flame retardants elicits overt toxicity and alters behavior in early life stage zebrafish (<i>Danio rerio</i>). <i>Toxicological Sciences</i> , 2014 , 142, 445-54	4.4	105
105	Developmental neurotoxicity of chlorpyrifos: what is the vulnerable period?. <i>Environmental Health Perspectives</i> , 2002 , 110, 1097-103	8.4	103
104	Characterization of deltamethrin metabolism by rat plasma and liver microsomes. <i>Toxicology and Applied Pharmacology</i> , 2006 , 212, 156-66	4.6	91
103	Common mechanism of toxicity: a case study of organophosphorus pesticides. <i>Toxicological Sciences</i> , 1998 , 41, 8-20	4.4	90
102	Advancing the science of developmental neurotoxicity (DNT): testing for better safety evaluation. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012 , 29, 202-15	4.3	86
101	Comparison of the in vitro sensitivity of rat acetylcholinesterase to chlorpyrifos-oxon: what do tissue IC50 values represent?. <i>Toxicology and Applied Pharmacology</i> , 1998 , 148, 46-9	4.6	84
100	The relationship of oral chlorpyrifos effects on behavior, cholinesterase inhibition, and muscarinic receptor density in rat. <i>Pharmacology Biochemistry and Behavior</i> , 1997 , 58, 15-23	3.9	83
99	Gestational exposure to chlorpyrifos: apparent protection of the fetus?. <i>Toxicology and Applied Pharmacology</i> , 1998 , 152, 56-65	4.6	81
98	Ontogeny of hepatic and plasma metabolism of deltamethrin in vitro: role in age-dependent acute neurotoxicity. <i>Drug Metabolism and Disposition</i> , 2006 , 34, 389-97	4	80
97	The impact of dose rate on the neurotoxicity of acrylamide: the interaction of administered dose, target tissue concentrations, tissue damage, and functional effects. <i>Toxicology and Applied Pharmacology</i> , 1996 , 139, 163-76	4.6	77
96	Potential of organophosphorus-induced delayed neurotoxicity by phenylmethylsulfonyl fluoride. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 1990 , 31, 261-73	3.2	76
95	Reference compounds for alternative test methods to indicate developmental neurotoxicity (DNT) potential of chemicals: example lists and criteria for their selection and use. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017 , 34, 49-74	4.3	76
94	A tiered approach to systemic toxicity testing for agricultural chemical safety assessment. <i>Critical Reviews in Toxicology</i> , 2006 , 36, 37-68	5.7	70
93	Rat brain acetylcholinesterase activity: developmental profile and maturational sensitivity to carbamate and organophosphorus inhibitors. <i>Toxicology</i> , 1998 , 125, 13-9	4.4	69
92	A modified spectrophotometric method appropriate for measuring cholinesterase activity in tissue from carbaryl-treated animals. <i>Fundamental and Applied Toxicology</i> , 1993 , 21, 196-203		67
91	Adverse outcome pathways during early fish development: a conceptual framework for identification of chemical screening and prioritization strategies. <i>Toxicological Sciences</i> , 2011 , 123, 349-58	4.4	66
90	Expanding the test set: Chemicals with potential to disrupt mammalian brain development. <i>Neurotoxicology and Teratology</i> , 2015 , 52, 25-35	3.9	56

89	Studies on the correlation between blood cholinesterase inhibition and Target tissueT inhibition in pesticide-treated rats. <i>Toxicology</i> , 1994 , 92, 11-25	4.4	53
88	The relationship between neurological damage and neurotoxic esterase inhibition in rats acutely exposed to tri-ortho-cresyl phosphate. <i>Toxicology and Applied Pharmacology</i> , 1985 , 78, 78-87	4.6	50
87	Developmental exposure to valproate and ethanol alters locomotor activity and retino-tectal projection area in zebrafish embryos. <i>Reproductive Toxicology</i> , 2012 , 33, 165-73	3.4	44
86	Murine susceptibility to organophosphorus-induced delayed neuropathy (OPIDN). <i>Toxicology and Applied Pharmacology</i> , 1991 , 107, 311-24	4.6	44
85	Regulatory and research issues related to cholinesterase inhibition. <i>Toxicology</i> , 1995 , 102, 215-20	4.4	39
84	Gestational exposure to chlorpyrifos: comparative distribution of trichloropyridinol in the fetus and dam. <i>Toxicology and Applied Pharmacology</i> , 1999 , 158, 16-23	4.6	38
83	Slow accumulation of acetylcholinesterase in rat brain during enzyme inhibition by repeated dosing with chlorpyrifos. <i>Biochemical Pharmacology</i> , 1995 , 49, 955-63	6	37
82	Age- and gender-related differences in sensitivity to chlorpyrifos in the rat reflect developmental profiles of esterase activities. <i>Toxicological Sciences</i> , 1998 , 46, 211-22	4.4	37
81	Rearing conditions differentially affect the locomotor behavior of larval zebrafish, but not their response to valproate-induced developmental neurotoxicity. <i>Neurotoxicology and Teratology</i> , 2011 , 33, 674-9	3.9	36
80	Use of medaka in toxicity testing. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2009 , Chapter 1, Unit1.10	1	36
79	Factors in standardizing automated cholinesterase assays. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 1996 , 48, 187-95	3.2	36
78	Evaluating the zebrafish embryo toxicity test for pesticide hazard screening. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 1221-1226	3.8	35
77	The role of neurotoxic esterase (NTE) in the prevention and potentiation of organophosphorus-induced delayed neurotoxicity (OPIDN). <i>Chemico-Biological Interactions</i> , 1993 , 87, 395-406	5	35
76	Chromatographic characterization of neurotoxic esterase. <i>Biochemical Pharmacology</i> , 1989 , 38, 181-8	6	35
75	Time course of cholinesterase inhibition in adult rats treated acutely with carbaryl, carbofuran, formetanate, methomyl, methiocarb, oxamyl or propoxur. <i>Toxicology and Applied Pharmacology</i> , 2007 , 219, 202-9	4.6	34
74	Adapting the medaka embryo assay to a high-throughput approach for developmental toxicity testing. <i>NeuroToxicology</i> , 2006 , 27, 840-5	4.4	34
73	An in vitro comparison of rat and chicken brain neurotoxic esterase. <i>Fundamental and Applied Toxicology</i> , 1986 , 6, 464-71		34
72	Advancing toxicology research using in vivo high throughput toxicology with small fish models. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2016 , 33, 435-452	4.3	34

71	Ontogenetic differences in the regional and cellular acetylcholinesterase and butyrylcholinesterase activity in the rat brain. <i>Developmental Brain Research</i> , 1998 , 105, 109-123		33
70	Automated measurement of acetylcholinesterase activity in rat peripheral tissues. <i>Toxicology</i> , 2003 , 186, 241-53	4.4	33
69	Neurobehavioral effects of chronic dietary and repeated high-level spike exposure to chlorpyrifos in rats. <i>Toxicological Sciences</i> , 2005 , 86, 375-86	4.4	32
68	Neurochemical effects of chronic dietary and repeated high-level acute exposure to chlorpyrifos in rats. <i>Toxicological Sciences</i> , 2005 , 88, 161-71	4.4	31
67	Effects of organophosphates on the visual system of rats. <i>Journal of Applied Toxicology</i> , 1994 , 14, 135-43	4.1	31
66	Screening for angiogenic inhibitors in zebrafish to evaluate a predictive model for developmental vascular toxicity. <i>Reproductive Toxicology</i> , 2017 , 70, 70-81	3.4	27
65	Impact of chemical proportions on the acute neurotoxicity of a mixture of seven carbamates in preweanling and adult rats. <i>Toxicological Sciences</i> , 2012 , 129, 126-34	4.4	27
64	Measuring cholinesterase activity in human saliva. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2006 , 69, 1805-18	3.2	27
63	Phenylmethylsulfonyl fluoride protects rats from Mipafos-induced delayed neuropathy. <i>Toxicology and Applied Pharmacology</i> , 1985 , 81, 258-64	4.6	27
62	Comparison of acute neurobehavioral and cholinesterase inhibitory effects of N-methylcarbamates in rat. <i>Toxicological Sciences</i> , 2007 , 98, 552-60	4.4	26
61	Comparison of the relative inhibition of acetylcholinesterase and neuropathy target esterase in rats and hens given cholinesterase inhibitors. <i>Fundamental and Applied Toxicology</i> , 1995 , 24, 94-101		26
60	Biochemical and neuropathological assessment of triphenyl phosphite in rats. <i>Toxicology and Applied Pharmacology</i> , 1986 , 83, 203-10	4.6	25
59	Further assessment of an in vitro screen that may help identify organophosphorus pesticides that are more acutely toxic to the young. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2004 , 67, 1477-89	3.2	24
58	Fenthion produces a persistent decrease in muscarinic receptor function in the adult rat retina. <i>Toxicology and Applied Pharmacology</i> , 1994 , 125, 271-80	4.6	24
57	Triphenyl phosphite: in vivo and in vitro inhibition of rat neurotoxic esterase. <i>Toxicology and Applied Pharmacology</i> , 1987 , 87, 249-56	4.6	23
56	Vulnerable windows for developmental ethanol toxicity in the Japanese medaka fish (<i>Oryzias latipes</i>). <i>Aquatic Toxicology</i> , 2006 , 80, 396-404	5.1	21
55	Modulation of neurotoxic esterase activity in vitro by phospholipids. <i>Toxicology and Applied Pharmacology</i> , 1989 , 97, 272-8	4.6	21
54	Body temperature-dependent and independent actions of chlordimeform on visual evoked potentials and axonal transport in optic system of rat. <i>Neuropharmacology</i> , 1985 , 24, 743-9	5.5	20

53	Evaluation of candidate genes for cholinesterase activity in farmworkers exposed to organophosphorus pesticides: association of single nucleotide polymorphisms in BCHE. <i>Environmental Health Perspectives</i> , 2010 , 118, 1395-9	8.4	19
52	Tissue Carboxylesterases and Chlorpyrifos Toxicity in the Developing Rat. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002 , 8, 75-90	4.9	19
51	Quantitative, video-based histochemistry to measure regional effects of anticholinesterase pesticides in rat brain. <i>Analytical Biochemistry</i> , 1996 , 241, 82-92	3.1	18
50	Altered expression of pp60c-src induced by peripheral nerve injury. <i>Journal of Comparative Neurology</i> , 1992 , 315, 171-7	3.4	18
49	Determination of acrylamide in rat serum and sciatic nerve by gas chromatography-electron-capture detection. <i>Biomedical Applications</i> , 1993 , 619, 223-34		17
48	Immediate and long-term consequences of vascular toxicity during zebrafish development. <i>Reproductive Toxicology</i> , 2014 , 48, 51-61	3.4	16
47	Paraoxon toxicity is not potentiated by prior reduction in blood acetylcholinesterase. <i>Toxicology and Applied Pharmacology</i> , 1992 , 117, 110-5	4.6	16
46	Comparison of proteins transported in different tracts of the central nervous system. <i>Brain Research</i> , 1979 , 176, 407-11	3.7	16
45	High-Throughput Video Processing of Heart Rate Responses in Multiple Wild-type Embryonic Zebrafish per Imaging Field. <i>Scientific Reports</i> , 2019 , 9, 145	4.9	16
44	Inhibition of rat brain phosphatidylinositol-specific phospholipase C by aluminum: regional differences, interactions with aluminum salts, and mechanisms. <i>Toxicology and Applied Pharmacology</i> , 1996 , 136, 118-25	4.6	14
43	Biochemical and morphological validation of a rodent model of organophosphorus-induced delayed neuropathy. <i>Toxicology and Industrial Health</i> , 1988 , 4, 361-71	1.8	14
42	Zebrafish Locomotor Responses Reveal Irritant Effects of Fine Particulate Matter Extracts and a Role for TRPA1. <i>Toxicological Sciences</i> , 2018 , 161, 290-299	4.4	13
41	Esterase metabolism of cholinesterase inhibitors using rat liver in vitro. <i>Toxicology</i> , 2011 , 281, 56-62	4.4	12
40	Biochemical measurement of cholinesterase activity. <i>Methods in Molecular Medicine</i> , 1999 , 22, 237-45		12
39	Relationship between brain and plasma carbaryl levels and cholinesterase inhibition. <i>Toxicology</i> , 2010 , 276, 172-83	4.4	11
38	INFLUENCE OF STORAGE CONDITIONS ON THE STABILITY OF CHOLINESTERASE ACTIVITY IN PLASMA AND BRAIN TISSUE TAKEN FROM CARBAMATE OR ORGANOPHOSPHORUS PESTICIDE-TREATED RATS 1999 , 9, 189-199		10
37	Axonal transport of [3H]fucose-labeled glycoproteins in two intra-brain tracts of the rat. <i>Journal of Neurochemistry</i> , 1980 , 35, 444-50	6	10
36	Retrograde axonal transport of locally synthesized phosphoinositides in the rat sciatic nerve. <i>Journal of Neurochemistry</i> , 1991 , 57, 415-22	6	9

35	Effects of p-xylene inhalation on axonal transport in the rat retinal ganglion cells. <i>Toxicology and Applied Pharmacology</i> , 1989 , 101, 390-8	4.6	9
34	Axonal transport of [35S]methionine-labeled proteins in two intra-brain tracts of the rat. <i>Journal of Neurochemistry</i> , 1980 , 35, 436-43	6	9
33	Locomotion and Behavioral Toxicity in Larval Zebrafish: Background, Methods, and Data 2011 , 151-164		8
32	The Neurotoxicity of Cholinesterase-Inhibiting Insecticides: Past and Present Evidence Demonstrating Persistent Effects. <i>Inhalation Toxicology</i> , 1995 , 7, 903-907	2.7	8
31	Relationship of neuropathy target esterase inhibition to neuropathology and ataxia in hens given organophosphorus esters. <i>Chemico-Biological Interactions</i> , 1993 , 87, 431-7	5	8
30	Toxic Responses of the Fish Nervous System 2008 , 417-455		6
29	Methods to Identify and Characterize Developmental Neurotoxicity for Human Health Risk Assessment. III: Pharmacokinetic and Pharmacodynamic Considerations. <i>Environmental Health Perspectives</i> , 2001 , 109, 101	8.4	6
28	Subacute ethanol consumption reverses p-xylene-induced decreases in axonal transport. <i>Toxicology</i> , 1992 , 75, 159-67	4.4	6
27	Effects of hypothermia on the in vivo measurement of rapid axonal transport in the rat: a cautionary note. <i>Journal of Neurochemistry</i> , 1986 , 46, 1227-30	6	6
26	Esterase detoxication of acetylcholinesterase inhibitors using human liver samples in vitro. <i>Toxicology</i> , 2016 , 353-354, 11-20	4.4	6
25	The dynamics of successive induction in larval zebrafish. <i>Journal of the Experimental Analysis of Behavior</i> , 2010 , 94, 261-6	2.1	5
24	A dried blood spot method to evaluate cholinesterase activity in young children. <i>Archives of Environmental Health</i> , 2004 , 59, 467-70		5
23	Promotion of organophosphate-induced delayed polyneuropathy by phenylmethanesulfonyl fluoride. <i>Toxicology and Applied Pharmacology</i> , 1991 , 110, 179-80	4.6	5
22	Locally synthesized phosphatidylcholine, but not protein, undergoes rapid retrograde axonal transport in the rat sciatic nerve. <i>Journal of Neurochemistry</i> , 1993 , 60, 1900-5	6	5
21	Axonal transport of glycerophospholipids following intracerebral injection of glycerol into substantia nigra or lateral geniculate body. <i>Neurochemical Research</i> , 1980 , 5, 1175-83	4.6	5
20	Generation and characterization of neurogenin1-GFP transgenic medaka with potential for rapid developmental neurotoxicity screening. <i>Aquatic Toxicology</i> , 2011 , 105, 127-35	5.1	4
19	Direct measurement of fast axonal organelle transport in the sciatic nerve of rats treated with acrylamide. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 1993 , 39, 429-45	3.2	4
18	Development of a quantitative morphological assessment of toxicant-treated zebrafish larvae using brightfield imaging and high-content analysis. <i>Journal of Applied Toxicology</i> , 2016 , 36, 1214-22	4.1	4

17	The zebrafish (<i>Danio rerio</i>) model in toxicity testing 2020 , 525-532		3
16	Using Zebrafish to Assess Developmental Neurotoxicity 2017 , 289-301		3
15	Cumulative Effects of Organophosphorus or Carbamate Pesticides 2006 , 607-615		3
14	Comparison of the Relative Inhibition of Acetylcholinesterase and Neurotoxicity Target Esterase in Rats and Hens Given Cholinesterase Inhibitors. <i>Toxicological Sciences</i> , 1995 , 24, 94-101	4.4	3
13	Developmental changes in carbachol-stimulated inositolphosphate release in pigmented rat retina. <i>Current Eye Research</i> , 1993 , 12, 439-49	2.9	3
12	Biomarkers of toxicity in zebrafish 2014 , 103-112		2
11	Rodent Models of Organophosphorus-Induced Delayed Neuropathy 1992 , 353-366		2
10	Zebrafish Development: High-Throughput Test Systems to Assess Developmental Toxicity 2013 , 371-383		1
9	Using zebrafish to assess developmental neurotoxicity 2011 , 179-191		1
8	A Novel Method that Markedly Increases the Sensitivity of the Erythrocyte Acetylcholinesterase Assay, Suitable for use in Pesticide-Treated Rats 1995 , 5, 41-49		1
7	Assessment of Larval Zebrafish Locomotor Activity for Developmental Neurotoxicity Screening. <i>Neuromethods</i> , 2021 , 327-351	0.4	1
6	Implementation of Zebrafish Ontologies for Toxicology Screening.. <i>Frontiers in Toxicology</i> , 2022 , 4, 817996		0
5	The utility of alternative models in particulate matter air pollution toxicology. <i>Current Research in Toxicology</i> , 2022 , 3, 100077	2.7	0
4	Developmental Neurotoxicity and Behavioral Screening in Larval Zebrafish with a Comparison to Other Published Results. <i>Toxics</i> , 2022 , 10, 256	4.7	0
3	Biochemical approaches to studying neurotoxicity. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2001 , Chapter 12, Unit12.1		1
2	An in Vitro Comparison of Rat and Chicken Brain Neurotoxic Esterase. <i>Toxicological Sciences</i> , 1986 , 6, 464-471	4.4	
1	Using zebrafish to assess developmental neurotoxicity 2022 , 239-251		