

Eugenio Vilanova

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122
papers

2,431
citations

23
h-index

44
g-index

146
ext. papers

2,613
ext. citations

4.5
avg, IF

4.93
L-index

#	Paper	IF	Citations
122	Enzymes involved in the detoxification of organophosphorus, carbamate and pyrethroid insecticides through hydrolysis. <i>Toxicology Letters</i> , 2002 , 128, 215-28	4.4	415
121	A simple and rapid HPLC-MS method for the simultaneous determination of epinephrine, norepinephrine, dopamine and 5-hydroxytryptamine: application to the secretion of bovine chromaffin cell cultures. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 847, 88-94	3.2	340
120	Future applications of phosphotriesterases in the prophylaxis and treatment of organophosphorus insecticide and nerve agent poisonings. <i>Toxicology Letters</i> , 2004 , 151, 219-33	4.4	110
119	The role of phosphotriesterases in the detoxication of organophosphorus compounds. <i>Critical Reviews in Toxicology</i> , 1999 , 29, 21-57	5.7	68
118	Tyrosine hydroxylase activity of immobilized tyrosinase on enzacryl-AA and CPG-AA supports: Stabilization and properties. <i>Biotechnology and Bioengineering</i> , 1984 , 26, 1306-12	4.9	54
117	Anomalous biochemical responses in tests of the delayed neuropathic potential of methamidophos (O,S-dimethyl phosphorothioamidate), its resolved isomers and of some higher O-alkyl homologues. <i>Archives of Toxicology</i> , 1991 , 65, 618-24	5.8	50
116	Serum albumin is as efficient as paraxonase in the detoxication of paraoxon at toxicologically relevant concentrations. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1524-9	4	47
115	Interaction of some unsubstituted phosphoramidate analogs of methamidophos (O,S-dimethyl phosphorothioamidate) with acetylcholinesterase and neuropathy target esterase of hen brain. <i>Pesticide Biochemistry and Physiology</i> , 1987 , 28, 224-238	4.9	46
114	New insights on molecular interactions of organophosphorus pesticides with esterases. <i>Toxicology</i> , 2017 , 376, 30-43	4.4	40
113	Model equations for the kinetics of covalent irreversible enzyme inhibition and spontaneous reactivation: esterases and organophosphorus compounds. <i>Critical Reviews in Toxicology</i> , 2009 , 39, 427-48	5.7	39
112	Soluble and particulate forms of the organophosphorus neuropathy target esterase in hen sciatic nerve. <i>Journal of Neurochemistry</i> , 1990 , 55, 1258-65	6	39
111	An integrated approach for detecting embryotoxicity and developmental toxicity of environmental contaminants using in vitro alternative methods. <i>Toxicology Letters</i> , 2014 , 230, 356-67	4.4	35
110	Serum albumins and detoxication of anti-cholinesterase agents. <i>Chemico-Biological Interactions</i> , 2010 , 187, 325-9	5	34
109	Biochemical and clinical tests of the delayed neuropathic potential of some O-alkyl O-dichlorophenyl phosphoramidate analogues of methamidophos (O,S-dimethyl phosphorothioamidate). <i>Toxicology</i> , 1989 , 54, 89-100	4.4	34
108	Phosphotriesterase activity identified in purified serum albumins. <i>Archives of Toxicology</i> , 1998 , 72, 219-26	5.8	32
107	Chlorpyrifos and its metabolites alter gene expression at non-cytotoxic concentrations in D3 mouse embryonic stem cells under in vitro differentiation: considerations for embryotoxic risk assessment. <i>Toxicology Letters</i> , 2013 , 217, 14-22	4.4	29
106	Cell viability effects and antioxidant and antimicrobial activities of Tunisian date syrup (Rub El Tamer) polyphenolic extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 402-6	5.7	28

105	Peripheral nerve soluble esterases are spontaneously reactivated after inhibition by paraoxon: implications for a new definition of neuropathy target esterase. <i>Chemico-Biological Interactions</i> , 1999 , 119-120, 541-50	5	26
104	Hydrolysis of carbaryl by human serum albumin. <i>Archives of Toxicology</i> , 2004 , 78, 629-34	5.8	24
103	Distribution and some biochemical properties of rat paraoxonase activity. <i>Neurotoxicology and Teratology</i> , 1990 , 12, 611-4	3.9	24
102	The inhibition of the high sensitive peripheral nerve soluble esterases by mipafox. A new mathematical processing for the kinetics of inhibition of esterases by organophosphorus compounds. <i>Toxicology Letters</i> , 2004 , 151, 171-81	4.4	23
101	Detection of clinical interactions between methadone and anti-retroviral compounds using an enantioselective capillary electrophoresis for methadone analysis. <i>Toxicology Letters</i> , 2004 , 151, 243-9	4.4	23
100	Chicken serum albumin hydrolyzes dichlorophenyl phosphoramidates by a mechanism based on transient phosphorylation. <i>Chemical Research in Toxicology</i> , 1998 , 11, 1441-6	4	23
99	Inhibition with spontaneous reactivation of carboxyl esterases by organophosphorus compounds: paraoxon as a model. <i>Chemical Research in Toxicology</i> , 2011 , 24, 135-43	4	22
98	Inhibition with spontaneous reactivation and the "ongoing inhibition" effect of esterases by biotinylated organophosphorus compounds: S9B as a model. <i>Chemico-Biological Interactions</i> , 2010 , 187, 397-402	5	22
97	An alternative in vitro method for detecting neuropathic compounds based on acetylcholinesterase inhibition and on inhibition and aging of neuropathy target esterase (NTE). <i>Toxicology in Vitro</i> , 2010 , 24, 942-52	3.6	21
96	Discrimination of carboxylesterases of chicken neural tissue by inhibition with a neuropathic, non-neuropathic organophosphorus compounds and neuropathy promoter. <i>Chemico-Biological Interactions</i> , 1997 , 106, 191-200	5	21
95	An in vitro approach for demonstrating the critical role of serum albumin in the detoxication of the carbamate carbaryl at in vivo toxicologically relevant concentrations. <i>Archives of Toxicology</i> , 2007 , 81, 113-9	5.8	21
94	Partial characterization of neuropathy target esterase and related phenyl valerate esterases from bovine adrenal medulla. <i>Journal of Biochemical Toxicology</i> , 1994 , 9, 145-52		19
93	Sciatic nerve neuropathy target esterase. Methods of assay, proximo-distal distribution and regeneration. <i>Toxicology</i> , 1988 , 49, 107-14	4.4	19
92	Organophosphorus pesticide chlorpyrifos and its metabolites alter the expression of biomarker genes of differentiation in D3 mouse embryonic stem cells in a comparable way to other model neurodevelopmental toxicants. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1487-95	4	18
91	Kinetics of the inhibitory interaction of organophosphorus neuropathy inducers and non-inducers in soluble esterases in the avian nervous system. <i>Toxicology and Applied Pharmacology</i> , 2011 , 256, 360-8	4.6	18
90	NTE and non-NTE esterases in brain membrane: kinetic characterization with organophosphates. <i>Toxicology</i> , 2012 , 297, 17-25	4.4	17
89	Genomic and phenotypic alterations of the neuronal-like cells derived from human embryonal carcinoma stem cells (NT2) caused by exposure to organophosphorus compounds paraoxon and mipafox. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 905-26	6.3	17
88	Cholinesterase assay by an efficient fixed time endpoint method. <i>MethodsX</i> , 2014 , 1, 258-63	1.9	17

87	Cytotoxic effect against 3T3 fibroblasts cells of saffron floral bio-residues extracts. <i>Food Chemistry</i> , 2014 , 147, 55-9	8.5	16
86	Kinetics of inhibition of soluble peripheral nerve esterases by PMSF: a non-stable compound that potentiates the organophosphorus-induced delayed neurotoxicity. <i>Archives of Toxicology</i> , 2012 , 86, 767-77	5.8	16
85	Inhibition and aging of neuropathy target esterase by the stereoisomers of a phosphoramidate related to methamidophos. <i>Toxicology Letters</i> , 1997 , 93, 95-102	4.4	16
84	A stereospecific phosphotriesterase in hen liver and brain. <i>Chemico-Biological Interactions</i> , 1998 , 108, 187-96	5	16
83	Rabbit serum albumin hydrolyzes the carbamate carbaryl. <i>Chemical Research in Toxicology</i> , 2002 , 15, 520-6	4	16
82	Soluble and particulate organophosphorus neuropathy target esterase in brain and sciatic nerve of the hen, cat, rat, and chick. <i>Journal of Neurochemistry</i> , 1993 , 61, 2164-8	6	15
81	Hen liver and plasma can metabolize hexyl-DCP phosphoramidate at a rate comparable to that of rat. <i>Neurotoxicology and Teratology</i> , 1990 , 12, 615-7	3.9	15
80	Shortening and Improving the Embryonic Stem Cell Test through the Use of Gene Biomarkers of Differentiation. <i>Journal of Toxicology</i> , 2011 , 2011, 286034	3.1	14
79	Expression of Neuropathy Target Esterase in mouse embryonic stem cells during differentiation. <i>Archives of Toxicology</i> , 2010 , 84, 481-91	5.8	14
78	Plasma phenylacetate and 1-naphthyl acetate hydrolyzing activities of wild birds as possible non-invasive biomarkers of exposure to organophosphorus and carbamate insecticides. <i>Toxicology Letters</i> , 2007 , 168, 278-85	4.4	14
77	Properties of phenyl valerate esterase activities from chicken serum are comparable with soluble esterases of peripheral nerves in relation with organophosphorus compounds inhibition. <i>Toxicology Letters</i> , 2003 , 142, 1-10	4.4	14
76	Roles of NTE protein and encoding gene in development and neurodevelopmental toxicity. <i>Chemico-Biological Interactions</i> , 2016 , 259, 352-357	5	14
75	Case study: Is bisphenol S safer than bisphenol A in thermal papers?. <i>Archives of Toxicology</i> , 2019 , 93, 1835-1852	5.8	13
74	RNA transcripts for the quantification of differentiation allow marked improvements in the performance of embryonic stem cell test (EST). <i>Toxicology Letters</i> , 2015 , 238, 60-9	4.4	13
73	Reversible inhibition can profoundly mislead studies on progressive inhibition of enzymes: the interaction of paraoxon with soluble neuropathy target esterase. <i>Chemico-Biological Interactions</i> , 1997 , 108, 19-25	5	13
72	NTE soluble isoforms: new perspectives for targets of neuropathy inducers and promoters. <i>Chemico-Biological Interactions</i> , 1999 , 119-120, 525-40	5	13
71	Chiral high-performance liquid chromatography and gas chromatography of the stereoisomers of hexyl 2,5-dichlorophenyl phosphoramidate. <i>Biomedical Applications</i> , 1993 , 622, 179-86		13
70	Phenylmethylsulfonyl fluoride, a potentiator of neuropathy, alters the interaction of organophosphorus compounds with soluble brain esterases. <i>Chemical Research in Toxicology</i> , 2012 , 25, 2393-401	4	12

69	Stereospecific hydrolysis of a phosphoramidate used as an OPIDP model by human sera with PON1 192 alloforms. <i>Archives of Toxicology</i> , 2015 , 89, 1801-9	5.8	11
68	Functional pathways altered after silencing Pnpla6 (the codifying gene of neuropathy target esterase) in mouse embryonic stem cells under differentiation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2014 , 50, 261-73	2.6	11
67	Silencing of PNPLA6, the neuropathy target esterase (NTE) codifying gene, alters neurodifferentiation of human embryonal carcinoma stem cells (NT2). <i>Neuroscience</i> , 2014 , 281, 54-67	3.9	11
66	Stereospecific hydrolysis of a phosphoramidate as a model to understand the role of biotransformation in the neurotoxicity of chiral organophosphorus compounds. <i>Toxicology Letters</i> , 2007 , 170, 157-64	4.4	11
65	In vivo inhibition by mipafox of soluble and particulate forms of organophosphorus neuropathy target esterase (NTE) in hen sciatic nerve. <i>Toxicology Letters</i> , 1994 , 71, 47-51	4.4	11
64	Local application of neuropathic organophosphorus compounds to hen sciatic nerve: inhibition of neuropathy target esterase and peripheral neurological impairments. <i>Toxicology and Applied Pharmacology</i> , 1992 , 117, 218-25	4.6	11
63	The kinetics of O-hexyl O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. <i>Chemico-Biological Interactions</i> , 1993 , 87, 117-25	5	11
62	Biochemical properties and possible toxicological significance of various forms of NTE. <i>Chemico-Biological Interactions</i> , 1993 , 87, 369-81	5	11
61	Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. <i>Scientific Reports</i> , 2018 , 8, 4844	4.9	10
60	Interaction between substrates suggests a relationship between organophosphorus-sensitive phenylvalerate- and acetylcholine-hydrolyzing activities in chicken brain. <i>Toxicology Letters</i> , 2014 , 230, 132-8	4.4	10
59	Separating esterase targets of organophosphorus compounds in the brain by preparative chromatography. <i>Toxicology Letters</i> , 2014 , 225, 167-76	4.4	10
58	Enzyme concentration as an important factor in the in vitro testing of the stereospecificity of the enzymatic hydrolysis of organophosphorus compounds. <i>Toxicology in Vitro</i> , 1999 , 13, 689-92	3.6	10
57	Interactions of neuropathy inducers and potentiators/promoters with soluble esterases. <i>Chemico-Biological Interactions</i> , 2013 , 203, 245-50	5	9
56	Dichlorophenyl phosphoramidates as substrates for avian and mammalian liver phosphotriesterases: activity levels, calcium dependence and stereospecificity. <i>Chemico-Biological Interactions</i> , 1999 , 119-120, 257-62	5	9
55	Separation of two forms of neuropathy target esterase in the soluble fraction of the hen sciatic nerve. <i>Chemico-Biological Interactions</i> , 1995 , 97, 247-55	5	9
54	Effect of some metallic cations and organic compounds on the O-hexyl O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. <i>Archives of Toxicology</i> , 1993 , 67, 416-21	5.8	9
53	Comparison of chromaffin cells from several animal sources for their use as an in vitro model to study the mechanism of organophosphorous toxicity. <i>Toxicology Letters</i> , 2006 , 165, 221-9	4.4	8
52	Bovine chromaffin cell cultures as model to study organophosphorus neurotoxicity. <i>Toxicology Letters</i> , 2004 , 151, 163-70	4.4	8

51	Effects of mipafox, paraoxon, chlorpyrifos and its metabolite chlorpyrifos-oxon on the expression of biomarker genes of differentiation in D3 mouse embryonic stem cells. <i>Chemico-Biological Interactions</i> , 2016 , 259, 368-373	5	8
50	Albumin, the responsible protein of the Cu-dependent hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate (HDCP) by chicken serum "antagonistic stereoselectivity". <i>Food and Chemical Toxicology</i> , 2018 , 120, 523-527	4.7	7
49	Kinetic interactions of a neuropathy potentiator (phenylmethylsulfonyl fluoride) with the neuropathy target esterase and other membrane bound esterases. <i>Archives of Toxicology</i> , 2014 , 88, 355-366	5.8	7
48	An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. <i>Toxicology Letters</i> , 1996 , 89, 241-7	4.4	7
47	Phthalates and organophosphorus compounds as cholinesterase inhibitors in fractions of industrial hexane impurities. <i>Archives of Toxicology</i> , 1985 , 57, 46-52	5.8	7
46	Serum cholinesterase inhibitors in the commercial hexane impurities. <i>Archives of Toxicology</i> , 1983 , 53, 59-69	5.8	7
45	Resolving pathways of interaction of mipafox and a sarin analog with human acetylcholinesterase by kinetics, mass spectrometry and molecular modeling approaches. <i>Archives of Toxicology</i> , 2016 , 90, 603-16	5.8	6
44	Butyrylcholinesterase identification in a phenylvalerate esterase-enriched fraction sensitive to low mipafox concentrations in chicken brain. <i>Archives of Toxicology</i> , 2017 , 91, 909-919	5.8	6
43	Copper activation of organophosphorus compounds detoxication by chicken serum. <i>Food and Chemical Toxicology</i> , 2017 , 106, 417-423	4.7	6
42	Phenyl valerate esterase activity of human butyrylcholinesterase. <i>Archives of Toxicology</i> , 2017 , 91, 3295-3305	5.8	6
41	Characterization and evolution of exposure to volatile organic compounds in the Spanish shoemaking industry over a 5-year period. <i>Journal of Occupational and Environmental Hygiene</i> , 2012 , 9, 653-62	2.9	6
40	Bovine chromaffin cells in culture show carboxylesterase activities sensitive to organophosphorus compounds. <i>International Journal of Biochemistry and Cell Biology</i> , 1996 , 28, 983-9	5.6	6
39	Immobilized frog tyrosinase. Stabilization on nylon supports. <i>Biotechnology Letters</i> , 1982 , 4, 341-346	3	6
38	Effects of silver nanoparticles on T98G human glioblastoma cells. <i>Toxicology and Applied Pharmacology</i> , 2020 , 404, 115178	4.6	6
37	Neurotoxic Effects Associated with Current Uses of Organophosphorus Compounds. <i>Journal of the Brazilian Chemical Society</i> , 2016 ,	1.5	6
36	Interactions of human butyrylcholinesterase with phenylvalerate and acetylthiocholine as substrates and inhibitors: kinetic and molecular modeling approaches. <i>Archives of Toxicology</i> , 2019 , 93, 1281-1296	5.8	5
35	Aluminium, nickel, cadmium and lead in candy products and assessment of daily intake by children in Spain. <i>Food Additives and Contaminants: Part B Surveillance</i> , 2016 , 9, 66-71	3.3	5
34	Over-expression of neuropathy target esterase activity in bovine chromaffin cell cultures by adenovirus-mediated gene transfer. <i>Toxicology Letters</i> , 2007 , 168, 286-91	4.4	5

33	Recovery of neuropathy target esterase activity after inhibition with mipafox and O-hexyl O-2,5-dichlorophenyl phosphoramidate in bovine chromaffin cell cultures. <i>Chemico-Biological Interactions</i> , 2007 , 165, 99-105	5	5
32	Comparative hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate and paraoxon in different tissues of vertebrates. <i>Archives of Toxicology</i> , 2007 , 81, 689-95	5.8	5
31	Organophosphorus inhibition and heat inactivation kinetics of particulate and soluble forms of peripheral nerve neuropathy target esterase. <i>Journal of Biochemical Toxicology</i> , 1995 , 10, 211-8		5
30	Sensitivity to tri-o-cresylphosphate neurotoxicity on n-hexane exposed hens as a model of simultaneous hexacarbon solvent and organophosphorus occupational intoxication. <i>Archives of Toxicology</i> , 1987 , 59, 311-8	5.8	5
29	A tyrosinase electrode: A laboratory experiment. <i>Biochemical Education</i> , 1981 , 9, 51-54		5
28	Esterases hydrolyze phenyl valerate activity as targets of organophosphorus compounds. <i>Chemico-Biological Interactions</i> , 2016 , 259, 358-367	5	5
27	Copper-dependent hydrolysis of trichloronate by turkey serum studied with use of new analytical procedure based on application of chiral chromatography and UV/Vis spectrophotometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019 , 1105, 203-209	3.2	5
26	The role of nicotinic receptors and calcium channels in mipafox induced inhibition of catecholamine release in bovine chromaffin cells. <i>Environmental Toxicology and Pharmacology</i> , 1996 , 1, 241-7	5.8	4
25	Case study: risk associated to wearing silver or graphene nanoparticle-coated facemasks for protection against COVID-19. <i>Archives of Toxicology</i> , 2021 , 96, 105	5.8	4
24	Properties of partly preinhibited hen brain neuropathy target esterase. <i>Chemico-Biological Interactions</i> , 1993 , 87, 417-23	5	3
23	Acetylcholine-hydrolyzing activities in soluble brain fraction: Characterization with reversible and irreversible inhibitors. <i>Chemico-Biological Interactions</i> , 2016 , 259, 374-381	5	2
22	Mechanism-based models in reproductive and developmental toxicology 2011 , 135-146		2
21	Distribution of serum paraoxon hydrolyzing activity in a large Spanish population using a routine automated method in clinical laboratory. <i>Journal of Analytical Toxicology</i> , 2003 , 27, 290-3	2.9	2
20	Titanium Dioxide, but Not Zinc Oxide, Nanoparticles Cause Severe Transcriptomic Alterations in T98G Human Glioblastoma Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
19	OECD Guidelines for InVivo Testing of Reproductive Toxicity 2017 , 163-178		1
18	O-hexyl O-2,5-dichlorophenyl phosphoramidate as a substrate for domestic and sea bird serum A-esterases: Hydrolysis levels, Cu- and Zn-dependence and stereoselectivity. <i>Chemico-Biological Interactions</i> , 2019 , 310, 108727	5	1
17	Toxicokinetics and Toxicodynamics of DFP 2015 , 857-874		1
16	Expression of biomarker genes of differentiation in D3 mouse embryonic stem cells after exposure to different embryotoxicant and non-embryotoxicant model chemicals. <i>Data in Brief</i> , 2015 , 5, 354-65	1.2	1

15	Biomarkers in biomonitoring of xenobiotics 2014 , 965-973		1
14	OECD guidelines and validated methods for in vivo testing of reproductive toxicity 2011 , 123-133		1
13	Detoxication of Anticholinesterase Pesticides 2011 , 121-132		1
12	Air Quality of Textile and Related Industries. <i>Comprehensive Analytical Chemistry</i> , 2016 , 73, 785-800	1.9	1
11	Biomarkers for Testing Toxicity and Monitoring Exposure to Xenobiotics 2019 , 1165-1174		1
10	Cholinesterase and phenyl valerate-esterase activities sensitive to organophosphorus compounds in membranes of chicken brain. <i>Toxicology</i> , 2018 , 410, 73-82	4.4	1
9	DAEH N-terminal sequence of avian serum albumins as catalytic center of Cu (II)-dependent organophosphorus hydrolyzing A-esterase activity. <i>Chemico-Biological Interactions</i> , 2021 , 345, 109524	5	1
8	Hydrolyzing activities of phenyl valerate sensitive to organophosphorus compounds paraoxon and mipafox in human neuroblastoma SH-SY5Y cells. <i>Toxicology</i> , 2018 , 406-407, 123-128	4.4	0
7	Toxicokinetics and toxicodynamics of DFP 2020 , 921-944		
6	Validated and Nonvalidated Mechanism-Based Methods for Testing Developmental Toxicity 2017 , 193-209		
5	Improved analytical method for monitoring exposure to volatile compounds for occupational risk prevention. <i>Toxicology Letters</i> , 2009 , 189, S261-S262	4.4	
4	The inhibition of the high sensitive peripheral nerve soluble esterases by mipafoxA new mathematical processing for the kinetics of inhibition of esterases by organophosphorus compounds. <i>Toxicology Letters</i> , 2004 , 151, 171-171	4.4	
3	Non-calcium dependent activity hydrolysing organophosphorus compounds in hen plasma. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1994 , 107, 213-9		
2	Interactions of human acetylcholinesterase with phenyl valerate and acetylthiocholine: Thiocholine as an enhancer of phenyl valerate esterase activity. <i>Chemico-Biological Interactions</i> , 2021 , 351, 109764	5	
1	Alternative methods to animal experimentation for testing developmental toxicity 2022 , 107-125		