Miguel A Sogorb

List of Publications by Year
in descending order

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75 papers	2,456 citations	331670 21 h-index	206112 48 g-index
78 all docs	78 docs citations	78 times ranked	2237 citing authors

#	Article	IF	Citations
1	Enzymes involved in the detoxification of organophosphorus, carbamate and pyrethroid insecticides through hydrolysis. Toxicology Letters, 2002, 128, 215-228.	0.8	476
2	A simple and rapid HPLCâ€“MS method for the simultaneous determination of epinephrine, norepinephrine, dopamine and 5-hydroxytryptamine: Application to the secretion of bovine chromaffin cell cultures. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 847, 88-94.	2.3	413
3	Structural Determinants of the Substrate and Stereochemical Specificity of Phosphotriesteraseâ€. Biochemistry, 2001, 40, 1325-1331.	2.5	126
4	Future applications of phosphotriesterases in the prophylaxis and treatment of organophosporus insecticide and nerve agent poisonings. Toxicology Letters, 2004, 151, 219-233.	0.8	125
5	Enhancement, Relaxation, and Reversal of the Stereoselectivity for Phosphotriesterase by Rational Evolution of Active Site Residuesâ€. Biochemistry, 2001, 40, 1332-1339.	2.5	119
6	Dichlorophenyl phosphoramidates as substrates for avian and mammalian liver phosphotriesterases: activity levels, calcium dependence and stereospecificity. Chemico-Biological Interactions, 1999, 119-120, 257-262.	4.0	75
7	The Role of Phosphotriesterases in the Detoxication of Organophosphorus Compounds. Critical Reviews in Toxicology, 1999, 29, 21-57.	3.9	74
8	Stereoselective Detoxification of Chiral Sarin and Soman Analogues by Phosphotriesterase. Bioorganic and Medicinal Chemistry, 2001, 9, 2083-2091.	3.0	58
9	Serum Albumin is as Efficient as Paraxonase in the Detoxication of Paraoxon at Toxicologically Relevant Concentrations. Chemical Research in Toxicology, 2008, 21, 1524-1529.	3.3	56
10	Enzyme Concentration as an Important Factor in the In Vitro Testing of the Stereospecificity of the Enzymatic Hydrolysis of Organophosphorus Compounds. Toxicology in Vitro, 1999, 13, 689-692.	2.4	44
11	An integrated approach for detecting embryotoxicity and developmental toxicity of environmental contaminants using in vitro alternative methods. Toxicology Letters, 2014, 230, 356-367.	0.8	41
12	Phosphotriesterase activity identified in purified serum albumins. Archives of Toxicology, 1998, 72, 219-226.	4.2	37
13	Serum albumins and detoxication of anti-cholinesterase agents. Chemico-Biological Interactions, 2010, 187, 325-329.	4.0	37
14	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. Toxicology Letters, 2013, 217, 14-22.	0.8	33
15	Rationally Engineered Mutants of Phosphotriesterase for Preparative Scale Isolation of Chiral Organophosphates. Journal of the American Chemical Society, 2000, 122, 10206-10207.	13.7	32
16	Hydrolysis of carbaryl by human serum albumin. Archives of Toxicology, 2004, 78, 629-634.	4.2	27
17	Chicken Serum Albumin Hydrolyzes Dichlorophenyl Phosphoramidates by a Mechanism Based on Transient Phosphorylation. Chemical Research in Toxicology, 1998, 11, 1441-1446.	3.3	26
18	Peripheral nerve soluble esterases are spontaneously reactivated after inhibition by paraoxon: implications for a new definition of neuropathy target esterase. Chemico-Biological Interactions, 1999, 119-120, 541-550.	4.0	26

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19	An alternative in vitro method for detecting neuropathic compounds based on acetylcholinesterase inhibition and on inhibition and aging of neuropathy target esterase (NTE). Toxicology in Vitro, 2010, 24, 942-952.	2.4	25
20	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. Archives of Toxicology, 2007, 81, 113-119.	4.2	24
21	Roles of NTE protein and encoding gene in development and neurodevelopmental toxicity. Chemico-Biological Interactions, 2016, 259, 352-357.	4.0	23
22	Plasma phenylacetate and 1-naphthyl acetate hydrolyzing activities of wild birds as possible non-invasive biomarkers of exposure to organophosphorus and carbamate insecticides. Toxicology Letters, 2007, 168, 278-285.	0.8	22
23	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. International Journal of Molecular Sciences, 2014, 15, 905-926.	4.1	22
24	Cytotoxic effect against 3T3 fibroblasts cells of saffron floral bio-residues extracts. Food Chemistry, 2014, 147, 55-59.	8.2	22
25	Discrimination of carboxylesterases of chicken neural tissue by inhibition with a neuropathic, non-neuropathic organophosphorus compounds and neuropathy promoter. Chemico-Biological Interactions, 1997, 106, 191-200.	4.0	21
26	Cholinesterase assay by an efficient fixed time endpoint method. MethodsX, 2014, 1, 258-263.	1.6	21
27	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. Chemical Research in Toxicology, 2014, 27, 1487-1495.	3.3	21
28	Partial characterization of neuropathy target esterase and related phenyl valerate esterases from bovine adrenal medulla. Journal of Biochemical Toxicology, 1994, 9, 145-152.	0.4	20
29	Rabbit Serum Albumin Hydrolyzes the Carbamate Carbaryl. Chemical Research in Toxicology, 2002, 15, 520-526.	3.3	20
30	Expression of Neuropathy Target Esterase in mouse embryonic stem cells during differentiation. Archives of Toxicology, 2010, 84, 481-491.	4.2	19
31	A stereospecific phosphotriesterase in hen liver and brain. Chemico-Biological Interactions, 1998, 108, 187-196.	4.0	18
32	Silencing of PNPLA6, the neuropathy target esterase (NTE) codifying gene, alters neurodifferentiation of human embryonal carcinoma stem cells (NT2). Neuroscience, 2014, 281, 54-67.	2.3	18
33	Case study: Is bisphenol S safer than bisphenol A in thermal papers?. Archives of Toxicology, 2019, 93, 1835-1852.	4.2	18
34	Inhibition and aging of neuropathy target esterase by the stereoisomers of a phosphoramidate related to methamidophos. Toxicology Letters, 1997, 93, 95-102.	0.8	17
35	Soluble and Particulate Organophosphorus Neuropathy Target Esterase in Brain and Sciatic Nerve of the Hen, Cat, Rat, and Chick. Journal of Neurochemistry, 1993, 61, 2164-2168.	3.9	16
36	Shortening and Improving the Embryonic Stem Cell Test through the Use of Gene Biomarkers of Differentiation. Journal of Toxicology, 2011, 2011, 1-8.	3.0	16

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37	Functional pathways altered after silencing Pnpla6 (the codifying gene of neuropathy target esterase) in mouse embryonic stem cells under differentiation. In Vitro Cellular and Developmental Biology - Animal, 2014, 50, 261-273.	1.5	15
38	RNA transcripts for the quantification of differentiation allow marked improvements in the performance of embryonic stem cell test (EST). Toxicology Letters, 2015, 238, 60-69.	0.8	14
39	Effects of silver nanoparticles on T98G human glioblastoma cells. Toxicology and Applied Pharmacology, 2020, 404, 115178.	2.8	14
40	Stereospecific hydrolysis of a phosphoramidate as a model to understand the role of biotransformation in the neurotoxicity of chiral organophosphorus compounds. Toxicology Letters, 2007, 170, 157-164.	0.8	13
41	Interaction between substrates suggests a relationship between organophosphorus-sensitive phenylvalerate- and acetylcholine-hydrolyzing activities in chicken brain. Toxicology Letters, 2014, 230, 132-138.	0.8	13
42	The kinetics of O-hexyl O-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. Chemico-Biological Interactions, 1993, 87, 117-125.	4.0	12
43	In vivo inhibition by mipafox of soluble and particulate forms of organophosphorus neuropathy target esterase (NTE) in hen sciatic nerve. Toxicology Letters, 1994, 71, 47-51.	0.8	12
44	Effects of mipafox, paraoxon, chlorpyrifos and its metabolite chlorpyrifos-oxon on the expression of biomarker genes of differentiation in D3 mouse embryonic stem cells. Chemico-Biological Interactions, 2016, 259, 368-373.	4.0	11
45	Titanium Dioxide, but Not Zinc Oxide, Nanoparticles Cause Severe Transcriptomic Alterations in T98G Human Glioblastoma Cells. International Journal of Molecular Sciences, 2021, 22, 2084.	4.1	11
46	Interactions of neuropathy inducers and potentiators/promoters with soluble esterases. Chemico-Biological Interactions, 2013, 203, 245-250.	4.0	10
47	Effect of some metallic cations and organic compounds on theO-hexylO-2,5-dichlorophenyl phosphoramidate hydrolysing activity in hen plasma. Archives of Toxicology, 1993, 67, 416-421.	4.2	9
48	Specific Effect of 5-Fluorouracil on Î±-Fetoprotein Gene Expression During the In Vitro Mouse Embryonic Stem Cell Differentiation. International Journal of Toxicology, 2010, 29, 297-304.	1.2	9
49	Copper activation of organophosporus compounds detoxication by chicken serum. Food and Chemical Toxicology, 2017, 106, 417-423.	3.6	9
50	Albumin, the responsible protein of the Cu2+-dependent hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate (HDCP) by chicken serum "antagonistic stereoselectivity". Food and Chemical Toxicology, 2018, 120, 523-527.	3.6	9
51	Case study: risk associated to wearing silver or graphene nanoparticle-coated facemasks for protection against COVID-19. Archives of Toxicology, 2022, 96, 105-119.	4.2	9
52	Bovine chromaffin cell cultures as model to study organophosporus neurotoxicity. Toxicology Letters, 2004, 151, 163-170.	0.8	8
53	Comparison of chromaffin cells from several animal sources for their use as an in vitro model to study the mechanism of organophosphorous toxicity. Toxicology Letters, 2006, 165, 221-229.	0.8	8
54	An automatable microassay for phenyl valerate esterase activities sensitive to organophosphorus compounds. Toxicology Letters, 1996, 89, 241-247.	0.8	7

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55	Recovery of neuropathy target esterase activity after inhibition with mipafox and O-hexyl O-2,5-dichlorophenyl phosphoramidate in bovine chromaffin cell cultures. Chemico-Biological Interactions, 2007, 165, 99-105.	4.0	7
56	Characterization and Evolution of Exposure to Volatile Organic Compounds in the Spanish Shoemaking Industry over a 5-Year Period. Journal of Occupational and Environmental Hygiene, 2012, 9, 653-662.	1.0	7
57	A Transcriptomic Analysis of T98G Human Glioblastoma Cells after Exposure to Cadmium-Selenium Quantum Dots Mainly Reveals Alterations in Neuroinflammation Processes and Hypothalamus Regulation. International Journal of Molecular Sciences, 2022, 23, 2267.	4.1	7
58	Bovine chromaffin cells in culture show carboxylesterase activities sensitive to organophosphorus compounds. International Journal of Biochemistry and Cell Biology, 1996, 28, 983-989.	2.8	6
59	Comparative hydrolysis of O-hexyl O-2,5-dichlorophenyl phosphoramidate and paraoxon in different tissues of vertebrates. Archives of Toxicology, 2007, 81, 689-695.	4.2	6
60	Mechanism-based models in reproductive and developmental toxicology. , 2011, , 135-146.		6
61	Biomarkers in biomonitoring of xenobiotics. , 2014, , 965-973.		6
62	The role of nicotinic receptors and calcium channels in mipafox induced inhibition of catecholamine release in bovine chromaffin cells. Environmental Toxicology and Pharmacology, 1996, 1, 241-247.	4.0	4
63	OECD guidelines and validated methods for in vivo testing of reproductive toxicity. , 2011, , 123-133.		4
64	The effect of CO2concentration in neuroectoderm commitment of mouse embryonic stem cells. Journal of Histotechnology, 2013, 36, 11-16.	0.5	3
65	Acetylcholine-hydrolyzing activities in soluble brain fraction: Characterization with reversible and irreversible inhibitors. Chemico-Biological Interactions, 2016, 259, 374-381.	4.0	3
66	Cholinesterase and phenyl valerate-esterase activities sensitive to organophosphorus compounds in membranes of chicken brain. Toxicology, 2018, 410, 73-82.	4.2	2
67	Hydrolyzing activities of phenyl valerate sensitive to organophosphorus compounds paraoxon and mipafox in human neuroblastoma SH-SY5Y cells. Toxicology, 2018, 406-407, 123-128.	4.2	2
68	DAEH N-terminal sequence of avian serum albumins as catalytic center of Cu (II)-dependent organophosphorus hydrolyzing A-esterase activity. Chemico-Biological Interactions, 2021, 345, 109524.	4.0	2
69	Interactions of human acetylcholinesterase with phenyl valerate and acetylthiocholine: Thiocholine as an enhancer of phenyl valerate esterase activity. Chemico-Biological Interactions, 2022, 351, 109764.	4.0	2
70	Non-calcium dependent activity hydrolysing organophosphorus compounds in hen plasma. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1994, 107, 213-219.	0.5	1
71	Expression of biomarker genes of differentiation in D3 mouse embryonic stem cells after exposure to different embryotoxicant and non-embryotoxicant model chemicals. Data in Brief, 2015, 5, 354-365.	1.0	1
72	Validated and Nonvalidated Mechanism-Based Methods for Testing Developmental Toxicity. , 2017, , 193-209.		1

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73	Biomarkers for Testing Toxicity and Monitoring Exposure to Xenobiotics. , 2019, , 1165-1174.		1
74	Editorial. Chemico-Biological Interactions, 2016, 259, 49-50.	4.0	0
75	Alternative methods to animal experimentation for testing developmental toxicity. , 2022, , 107-125.		0