Patrick Ym Masson

List of Publications by Year
in descending order

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305 papers	12,030 citations	25034 57 h-index	39675 94 g-index
321 all docs	321 docs citations	321 times ranked	9047 citing authors

#	Article	IF	Citations
1	Steady-state kinetic analysis of human cholinesterases over wide concentration ranges of competing substrates. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140733.	2.3	4
2	Kinetic Processes in Enzymatic Nanoreactors for In Vivo Detoxification. Biomedicines, 2022, 10, 784.	3.2	6
3	Enzyme Nanoreactor for In Vivo Detoxification of Organophosphates. ACS Applied Materials & Interfaces, 2022, , .	8.0	9
4	Organophosphorus poisoning in animals and enzymatic antidotes. Environmental Science and Pollution Research, 2021, 28, 25081-25106.	5.3	17
5	Protective effects of m-(tert-butyl) trifluoroacetophenone, a transition state analogue of acetylcholine, against paraoxon toxicity and memory impairments. Chemico-Biological Interactions, 2021, 345, 109558.	4.0	2
6	Therapeutic nanoreactors for detoxification of xenobiotics: Concepts, challenges and biotechnological trends with special emphasis to organophosphate bioscavenging. Chemico-Biological Interactions, 2021, 346, 109577.	4.0	10
7	Î±-tocopherol, a slow-binding inhibitor of acetylcholinesterase. Chemico-Biological Interactions, 2021, 348, 109646.	4.0	4
8	A new sensitive spectrofluorimetric method for measurement of activity and kinetic study of cholinesterases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140270.	2.3	9
9	6-Methyluracil derivatives as peripheral site ligand-hydroxamic acid conjugates: Reactivation for paraoxon-inhibited acetylcholinesterase. European Journal of Medicinal Chemistry, 2020, 185, 111787.	5.5	9
10	Slow-binding reversible inhibitor of acetylcholinesterase with long-lasting action for prophylaxis of organophosphate poisoning. Scientific Reports, 2020, 10, 16611.	3.3	14
11	1-(3-Tert-Butylphenyl)-2,2,2-Trifluoroethanone as a Potent Transition-State Analogue Slow-Binding Inhibitor of Human Acetylcholinesterase: Kinetic, MD and QM/MM Studies. Biomolecules, 2020, 10, 1608.	4.0	8
12	Slow-binding inhibitors of acetylcholinesterase of medical interest. Neuropharmacology, 2020, 177, 108236.	4.1	19
13	Impact of Sucrose as Osmolyte on Molecular Dynamics of Mouse Acetylcholinesterase. Biomolecules, 2020, 10, 1664.	4.0	10
14	Steady-State Kinetics of Enzyme-Catalyzed Hydrolysis of Echothiophate, a Pâ€“S Bonded Organophosphorus as Monitored by Spectrofluorimetry. Molecules, 2020, 25, 1371.	3.8	7
15	Catalytic bioscavengers: the second generation of bioscavenger-based medical countermeasures. , 2020, , 1199-1229.		0
16	ORGANOPHOSPHORUS NEUROTOXINS. , 2020, , .		10
17	Study and modeling of mechanisms of cholinesterasis reactions in order to improve their catalytic properties in the neutralization reactions of organophosphorous compounds. , 2020, , 134-174.		0
18	Research on cholinesterases in the Soviet Union and Russia. , 2020, , 35-43.		0

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19	Study and modeling of mechanisms of cholinesterasis reactions in order to improve their catalytic properties in the neutralization reactions of organophosphorus compounds. , 2020, , 140-180.		0
20	Research on cholinesterases in the Soviet Union and Russia. , 2020, , 29-37.		0
21	Human cholinesterases. , 2020, , 69-126.		1
22	New evidence for dual binding site inhibitors of acetylcholinesterase as improved drugs for treatment of Alzheimer's disease. Neuropharmacology, 2019, 155, 131-141.	4.1	67
23	Preparation of multi-allylic dendronized polymers via atom-transfer radical polymerization. European Polymer Journal, 2019, 118, 358-364.	5.4	3
24	The four-helix bundle in cholinesterase dimers: Structural and energetic determinants of stability. Chemico-Biological Interactions, 2019, 309, 108699.	4.0	4
25	Time-course of enzyme-catalyzed competing substrate degradation for michaelian behavior and for enzymes showing activation/inhibition by excess substrate. Chemico-Biological Interactions, 2019, 309, 108704.	4.0	9
26	How alkali-activated Ti surfaces affect the growth of tethered PMMA chains: a close-up study on the PMMA thickness and surface morphology. Pure and Applied Chemistry, 2019, 91, 1687-1694.	1.9	6
27	Time-course of human cholinesterases-catalyzed competing substrate kinetics. Chemico-Biological Interactions, 2019, 310, 108702.	4.0	10
28	Computer-designed active human butyrylcholinesterase double mutant with a new catalytic triad. Chemico-Biological Interactions, 2019, 306, 138-146.	4.0	31
29	Structural stability of human butyrylcholinesterase under high hydrostatic pressure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 107-113.	2.3	3
30	Blockade of Metabotropic GABA-B Receptors as an Approach to Reduce Toxic Peripheral Effects of Cholinesterase Inhibitors. BioNanoScience, 2019, 9, 38-43.	3.5	2
31	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. Biochimie, 2019, 156, 196-205.	2.6	26
32	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. ACS Applied Materials & Interfaces, 2018, 10, 5967-5977.	8.0	26
33	C-547, a 6-methyluracil derivative with long-lasting binding and rebinding on acetylcholinesterase: Pharmacokinetic and pharmacodynamic studies. Neuropharmacology, 2018, 131, 304-315.	4.1	11
34	Analysis of Apparent Catalytic Parameters of Multiple Molecular Forms of Human Plasma Butyrylcholinesterase by Activity Gel-Scanning Following Non-denaturing Electrophoresis. BioNanoScience, 2018, 8, 367-372.	3.5	0
35	Combination delivery of two oxime-loaded lipid nanoparticles: Time-dependent additive action for prolonged rat brain protection. Journal of Controlled Release, 2018, 290, 102-111.	9.9	28
36	Purification of recombinant human butyrylcholinesterase on HupresinÂ®. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1102-1103, 109-115.	2.3	9

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37	Water structure changes in oxime-mediated reactivation process of phosphorylated human acetylcholinesterase. Bioscience Reports, 2018, 38, .	2.4	6
38	Catalytic bioscavengers against organophosphorus agents: mechanistic issues of self-reactivating cholinesterases. Toxicology, 2018, 409, 91-102.	4.2	12
39	Optimization of Cholinesterase-Based Catalytic Bioscavengers Against Organophosphorus Agents. Frontiers in Pharmacology, 2018, 9, 211.	3.5	59
40	Autoregulation of Acetylcholine Release and Micro-Pharmacodynamic Mechanisms at Neuromuscular Junction: Selective Acetylcholinesterase Inhibitors for Therapy of Myasthenic Syndromes. Frontiers in Pharmacology, 2018, 9, 766.	3.5	12
41	Mixed cationic liposomes for brain delivery of drugs by the intranasal route: The acetylcholinesterase reactivator 2-PAM as encapsulated drug model. Colloids and Surfaces B: Biointerfaces, 2018, 171, 358-367.	5.0	64
42	Characterization of butyrylcholinesterase in bovine serum. Chemico-Biological Interactions, 2017, 266, 17-27.	4.0	19
43	Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2550-2555.	7.1	182
44	Nanoparticle-Delivered 2-PAM for Rat Brain Protection against Paraoxon Central Toxicity. ACS Applied Materials & Interfaces, 2017, 9, 16922-16932.	8.0	46
45	Cholinesterase reactivators and bioscavengers for preâ€•and postâ€exposure treatments of organophosphorus poisoning. Journal of Neurochemistry, 2017, 142, 26-40.	3.9	113
46	Application of Tetrameric Recombinant Human Butyrylcholinesterase as a Biopharmaceutical for Amelioration of Symptoms of Acute Organophosphate Poisoning. Bulletin of Experimental Biology and Medicine, 2017, 163, 430-435.	0.8	4
47	Computational Exploration of Reactivity of 6-Methyluracil/Imidazole-2-Carbaldehyde Oxime Conjugate. BioNanoScience, 2017, 7, 229-232.	3.5	3
48	Role of Acetylcholinesterase in Î²-Amyloid Aggregation Studied by Accelerated Molecular Dynamics. BioNanoScience, 2017, 7, 396-402.	3.5	23
49	The C5 Variant of the Butyrylcholinesterase Tetramer Includes a Noncovalently Bound 60 kDa Lamellipodin Fragment. Molecules, 2017, 22, 1083.	3.8	15
50	Bacterial Virus Ontology; Coordinating across Databases. Viruses, 2017, 9, 126.	3.3	3
51	The ins and outs of eukaryotic viruses: Knowledge base and ontology of a viral infection. PLoS ONE, 2017, 12, e0171746.	2.5	7
52	Improving HIV proteome annotation: new features of BioAfrica HIV Proteomics Resource. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw045.	3.0	8
53	Molecular polymorphism of human enzymes as the basis of individual sensitivity to drugs. Supercomputer-assisted modeling as a tool for analysis of structural changes and enzymatic activity of proteins. Russian Chemical Bulletin, 2016, 65, 1592-1607.	1.5	8
54	Sensing activity of cholinesterases through a luminescence response of the hexarhenium cluster complex [{Re₆S₈}(OH)₆]^{4â^'}. Analyst, The, 2016, 141, 4204-4210.	3.5	20

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55	Dynamics of human acetylcholinesterase bound to non-covalent and covalent inhibitors shedding light on changes to the water network structure. Physical Chemistry Chemical Physics, 2016, 18, 12992-13001.	2.8	30
56	Slow-binding inhibition of acetylcholinesterase by an alkylammonium derivative of 6-methyluracil: mechanism and possible advantages for myasthenia gravis treatment. Biochemical Journal, 2016, 473, 1225-1236.	3.7	39
57	Novel approaches in prophylaxis/pretreatment and treatment of organophosphorus poisoning. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1433-1443.	1.6	15
58	Understanding the non-catalytic behavior of human butyrylcholinesterase silent variants: Comparison of wild-type enzyme, catalytically active Ala328Cys mutant, and silent Ala328Asp variant. Chemico-Biological Interactions, 2016, 259, 223-232.	4.0	8
59	Slow-binding inhibition of cholinesterases, pharmacological and toxicological relevance. Archives of Biochemistry and Biophysics, 2016, 593, 60-68.	3.0	27
60	Assessing Gravitropic Responses in Arabidopsis. Methods in Molecular Biology, 2016, 1398, 11-20.	0.9	0
61	Emergence of catalytic bioscavengers against organophosphorus agents. Chemico-Biological Interactions, 2016, 259, 319-326.	4.0	40
62	Monoclonal antibodies to human butyrylcholinesterase reactive with butyrylcholinesterase in animal plasma. Chemico-Biological Interactions, 2016, 243, 82-90.	4.0	10
63	Current and emerging strategies for organophosphate decontamination: special focus on hyperstable enzymes. Environmental Science and Pollution Research, 2016, 23, 8200-8218.	5.3	72
64	Luminescent silica nanoparticles for sensing acetylcholinesterase-catalyzed hydrolysis of acetylcholine. Biosensors and Bioelectronics, 2016, 77, 871-878.	10.1	21
65	CHAPTER 2. Nerve Agents: Catalytic Scavengers as an Alternative Approach for Medical Countermeasures. Issues in Toxicology, 2016, , 43-81.	0.1	5
66	6-Methyluracil derivatives as acetylcholinesterase inhibitors for treatment of Alzheimerâ€™s disease. International Journal of Risk and Safety in Medicine, 2015, 27, S69-S71.	0.6	6
67	6â€Methyluracil Derivatives as Bifunctional Acetylcholinesterase Inhibitors for the Treatment of Alzheimer's Disease. ChemMedChem, 2015, 10, 1863-1874.	3.2	33
68	Molecular modeling of mechanism of action of anti-myasthenia gravis slow-binding inhibitor of acetylcholinesterase. International Journal of Risk and Safety in Medicine, 2015, 27, S74-S75.	0.6	0
69	Catalytic Bioscavengers. , 2015, , 1107-1123.		5
70	Human butyrylcholinesterase polymorphism: Molecular modeling. International Journal of Risk and Safety in Medicine, 2015, 27, S80-S81.	0.6	4
71	Biomarkers of Exposure to Organophosphorus Poisons. , 2015, , 953-965.		1
72	A structured annotation frame for the transposable phages: A new proposed family â€œSaltoviridaeâ€• within the Caudovirales. Virology, 2015, 477, 155-163.	2.4	32

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73	A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. Biochimie, 2015, 118, 51-59.	2.6	25
74	Comparison of 5 monoclonal antibodies for immunopurification of human butyrylcholinesterase on Dynabeads: KD values, binding pairs, and amino acid sequences. Chemico-Biological Interactions, 2015, 240, 336-345.	4.0	19
75	Pressure-induced molten globule state of human acetylcholinesterase: structural and dynamical changes monitored by neutron scattering. Physical Chemistry Chemical Physics, 2015, 17, 3157-3163.	2.8	34
76	Chemical Polysialylation and In Vivo Tetramerization Improve Pharmacokinetic Characteristics of Recombinant Human Butyrylcholinesterase-Based Bioscavengers. Acta Naturae, 2015, 7, 136-141.	1.7	14
77	The VASCULATURE COMPLEXITY AND CONNECTIVITY Gene Encodes a Plant-Specific Protein Required for Embryo Provasculature Development. Plant Physiology, 2014, 166, 889-902.	4.8	28
78	Molecular Modeling Evidence for His438 Flip in the Mechanism of Butyrylcholinesterase Hysteretic Behavior. Journal of Molecular Neuroscience, 2014, 52, 434-445.	2.3	14
79	Correlation of the dynamics of native ‹i›human‹/i› acetylcholinesterase and its inhibited huperzine A counterpart from sub-picoseconds to nanoseconds. Journal of the Royal Society Interface, 2014, 11, 20140372.	3.4	18
80	Macrocyclic derivatives of 6-methyluracil as ligands of the peripheral anionic site of acetylcholinesterase. MedChemComm, 2014, 5, 1729-1735.	3.4	11
81	Characterization of a novel butyrylcholinesterase point mutation (p.Ala34Val), â€œsilentâ€•with mivacurium. Biochemical Pharmacology, 2014, 92, 476-483.	4.4	27
82	Detection of cresyl phosphate-modified butyrylcholinesterase in human plasma for chemical exposure associated with aerotoxic syndrome. Analytical Biochemistry, 2014, 461, 17-26.	2.4	19
83	Effect of covalent grafting on mechanical properties of TiO2/polystyrene composites. Materials Chemistry and Physics, 2014, 147, 261-267.	4.0	14
84	Characterization of a Novel BCHE â€œSilentâ€•Allele: Point Mutation (p.Val204Asp) Causes Loss of Activity and Prolonged Apnea with Suxamethonium. PLoS ONE, 2014, 9, e101552.	2.5	34
85	An Integrated Ontology Resource to Explore and Study Host-Virus Relationships. PLoS ONE, 2014, 9, e108075.	2.5	13
86	Progress in the development of enzyme-based nerve agent bioscavengers. Chemico-Biological Interactions, 2013, 206, 536-544.	4.0	138
87	PHOS-Select Iron Affinity Beads Enrich Peptides for the Detection of Organophosphorus Adducts on Albumin. Chemical Research in Toxicology, 2013, 26, 1917-1925.	3.3	11
88	Molecular modeling of butyrylcholinesterase inhibition by cresyl saligenin phosphate. Russian Chemical Bulletin, 2013, 62, 2527-2537.	1.5	17
89	Effects of viscosity and osmotic stress on the reaction of human butyrylcholinesterase with cresyl saligenin phosphate, a toxicant related to aerotoxic syndrome: kinetic and molecular dynamics studies. Biochemical Journal, 2013, 454, 387-399.	3.7	53
90	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1243-1248.	7.1	79

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91	Relation between dynamics, activity and thermal stability within the cholinesterase family. Chemico-Biological Interactions, 2013, 203, 14-18.	4.0	8
92	Research on cholinesterases in the Soviet Union and Russia: A historical perspective. Chemico-Biological Interactions, 2013, 203, 3-9.	4.0	10
93	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. Chemico-Biological Interactions, 2013, 203, 196-201.	4.0	24
94	Inhibition Pathways of the Potent Organophosphate CBDP with Cholinesterases Revealed by X-ray Crystallographic Snapshots and Mass Spectrometry. Chemical Research in Toxicology, 2013, 26, 280-289.	3.3	35
95	Mass Spectrometry Method to Identify Aging Pathways of Sp- and Rp-Tabun Adducts on Human Butyrylcholinesterase Based on the Acid Labile P-N Bond. Toxicological Sciences, 2013, 132, 390-398.	3.1	16
96	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of titanium oxide-enriched peptides for detection of aged organophosphorus adducts on human butyrylcholinesterase. Analytical Biochemistry, 2013, 439, 132-141.	2.4	21
97	Enhancement of styrene conversion in organic/inorganic hybrid materials by using malononitrile in controlled radical polymerization. Polymer International, 2013, 62, 878-883.	3.1	14
98	Polyclonal Antibody to Soman-Tyrosine. Chemical Research in Toxicology, 2013, 26, 584-592.	3.3	11
99	Recombinant Human Butyrylcholinesterase As a New-Age Bioscavenger Drug: Development of the Expression System. Acta Naturae, 2013, 5, 73-84.	1.7	18
100	ViralZone: recent updates to the virus knowledge resource. Nucleic Acids Research, 2012, 41, D579-D583.	14.5	48
101	Insights into the regenerative property of plant cells and their receptivity to transgenesis. Plant Signaling and Behavior, 2012, 7, 1608-1620.	2.4	23
102	Energy Landscapes of Human Acetylcholinesterase and Its Huperzine A-Inhibited Counterpart. Journal of Physical Chemistry B, 2012, 116, 14744-14753.	2.6	17
103	Activity and molecular dynamics relationship within the family of human cholinesterases. Physical Chemistry Chemical Physics, 2012, 14, 6764.	2.8	18
104	Effects of hydrostatic pressure on the quaternary structure and enzymatic activity of a large peptidase complex from Pyrococcus horikoshii. Archives of Biochemistry and Biophysics, 2012, 517, 104-110.	3.0	28
105	Time-dependent kinetic complexities in cholinesterase-catalyzed reactions. Biochemistry (Moscow), 2012, 77, 1147-1161.	1.5	15
106	Differential sensitivity of plasma carboxylesterase-null mice to parathion, chlorpyrifos and chlorpyrifos oxon, but not to diazinon, dichlorvos, diisopropylfluorophosphate, cresyl saligenin phosphate, cyclosarin thiocholine, tabun thiocholine, and carbofuran. Chemico-Biological Interactions, 2012, 195, 189-198.	4.0	32
107	Endogenous human plasma catalytic bioscavengers for organophosphorus compounds do not protect against the toxicity of chemicals implicated in aerotoxic syndrome: an in vitro study. Journal of Biological Physics and Chemistry, 2012, 12, 89-97.	0.1	6
108	Les protÃ©ines DING : propriÃ©tÃ©s biochimiques, structurales, et capacitÃ© Ã inhiber la rÃ©plication du virus VIH-1. Bulletin De L'Academie Nationale De Medecine, 2012, 196, 693-704.	0.0	0

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109	Reaction of Cresyl Saligenin Phosphate, the Organophosphorus Agent Implicated in Aerotoxic Syndrome, with Human Cholinesterases: Mechanistic Studies Employing Kinetics, Mass Spectrometry, and X-ray Structure Analysis. Chemical Research in Toxicology, 2011, 24, 797-808.	3.3	60
110	Dendronized Polymers with Peripheral Oligo(ethylene oxide) Chains: Thermoresponsive Behavior and Shape Anisotropy in Solution. Macromolecules, 2011, 44, 8925-8935.	4.8	53
111	Evolution of and perspectives on therapeutic approaches to nerve agent poisoning. Toxicology Letters, 2011, 206, 5-13.	0.8	85
112	Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. Toxicology Letters, 2011, 206, 14-23.	0.8	49
113	Structural Study of the Complex Stereoselectivity of Human Butyrylcholinesterase for the Neurotoxic V-agents. Journal of Biological Chemistry, 2011, 286, 16783-16789.	3.4	41
114	Exposure to tri-o-cresyl phosphate detected in jet airplane passengers. Toxicology and Applied Pharmacology, 2011, 256, 337-347.	2.8	62
115	Human-Phosphate-Binding-Protein inhibits HIV-1 gene transcription and replication. Virology Journal, 2011, 8, 352.	3.4	18
116	X-ray crystallographic snapshots of reaction intermediates in the G117H mutant of human butyrylcholinesterase, a nerve agent target engineered into a catalytic bioscavenger. Biochemical Journal, 2011, 434, 73-82.	3.7	42
117	ViralZone: a knowledge resource to understand virus diversity. Nucleic Acids Research, 2011, 39, D576-D582.	14.5	312
118	Reactibodies generated by kinetic selection couple chemical reactivity with favorable protein dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15954-15959.	7.1	48
119	Structural Evidence That Human Acetylcholinesterase Inhibited by Tabun Ages through O-Dealkylation. Journal of Medicinal Chemistry, 2010, 53, 4002-4008.	6.4	90
120	Mass spectral characterization of organophosphate-labeled, tyrosine-containing peptides: Characteristic mass fragments and a new binding motif for organophosphates. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1297-1311.	2.3	53
121	Application of laccase-mediator system (LMS) for the degradation of organophosphorus compounds. Chemico-Biological Interactions, 2010, 187, 393-396.	4.0	23
122	Preparation and characterization of methoxy polyethylene glycol-conjugated phosphotriesterase as a potential catalytic bioscavenger against organophosphate poisoning. Chemico-Biological Interactions, 2010, 187, 380-383.	4.0	19
123	Structural approach to the aging of phosphylated cholinesterases. Chemico-Biological Interactions, 2010, 187, 157-162.	4.0	64
124	Aging mechanism of butyrylcholinesterase inhibited by an N-methyl analogue of tabun: Implications of the trigonalâ€“bipyramidal transition state rearrangement for the phosphylation or reactivation of cholinesterases. Chemico-Biological Interactions, 2010, 187, 44-48.	4.0	20
125	Dichlorvos, chlorpyrifos oxon and Aldicarb adducts of butyrylcholinesterase, detected by mass spectrometry in human plasma following deliberate overdose. Journal of Applied Toxicology, 2010, 30, 559-565.	2.8	33
126	Integrative analytical approach by capillary electrophoresis and kinetics under high pressure optimized for deciphering intrinsic and extrinsic cofactors that modulate activity and stability of human paraoxonase (PON1). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1346-1355.	2.3	12

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127	Paraoxonase-1 and its Interactions with HDL. , 2010, , 99-131.		3
128	Detection of Adduct on Tyrosine 411 of Albumin in Humans Poisoned by Dichlorvos. Toxicological Sciences, 2010, 116, 23-31.	3.1	50
129	Accumulation of Tetrahedral Intermediates in Cholinesterase Catalysis: A Secondary Isotope Effect Study. Journal of the American Chemical Society, 2010, 132, 17751-17759.	13.7	23
130	Butyrylcholinesterase for protection from organophosphorus poisons: Catalytic complexities and hysteretic behavior. Archives of Biochemistry and Biophysics, 2010, 494, 107-120.	3.0	192
131	Structureâ€“activity analysis of aging and reactivation of human butyrylcholinesterase inhibited by analogues of tabun. Biochemical Journal, 2009, 421, 97-106.	3.7	62
132	Characterization of a REG/PA28 Proteasome Activator Homolog in Dictyostelium discoideum Indicates that the Ubiquitin- and ATP-Independent REGÎ³ Proteasome Is an Ancient Nuclear Protease. Eukaryotic Cell, 2009, 8, 844-851.	3.4	16
133	Tyrosines of Human and Mouse Transferrin Covalently Labeled by Organophosphorus Agents: A New Motif for Binding to Proteins that Have No Active Site Serine. Toxicological Sciences, 2009, 107, 144-155.	3.1	30
134	Biomarkers of Exposure to Organophosphorus Poisons. , 2009, , 847-858.		5
135	Carbofuran poisoning detected by mass spectrometry of butyrylcholinesterase adduct in human serum. Journal of Applied Toxicology, 2009, 29, 149-155.	2.8	42
136	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon Sulfolobus solfataricus. Extremophiles, 2009, 13, 461-470.	2.3	60
137	Exploring the structural and functional stabilities of different paraoxonase-1 formulations through electrophoretic mobilities and enzyme activity parameters under hydrostatic pressure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 680-688.	2.3	12
138	Direct Correlation between Molecular Dynamics and Enzymatic Stability: A Comparative Neutron Scattering Study of Native Human Butyrylcholinesterase and its â€œAgedâ€•Soman Conjugate. Biophysical Journal, 2009, 96, 1489-1494.	0.5	9
139	Regioselective access to 3^I-O-substituted-Î²-cyclodextrin derivatives. Chemical Communications, 2009, , 589-591.	4.1	28
140	Crystallographic Snapshots of Nonaged and Aged Conjugates of Soman with Acetylcholinesterase, and of a Ternary Complex of the Aged Conjugate with Pralidoxime. Journal of Medicinal Chemistry, 2009, 52, 7593-7603.	6.4	81
141	Update on biochemical properties of recombinantPseudomonas diminutaphosphotriesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1045-1055.	5.2	21
142	Structural basis for natural lactonase and promiscuous phosphotriesterase activities. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s135-s135.	0.3	0
143	Structure, Activities and Biomedical Applications of Human Butyrylcholinesterase. Protein and Peptide Letters, 2009, 16, 1215-1224.	0.9	74
144	Catalytic Bioscavengers. , 2009, , 1053-1065.		11

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145	Catalytic Bioscavengers Against Toxic Esters, an Alternative Approach for Prophylaxis and Treatments of Poisonings. Acta Naturae, 2009, 1, 68-79.	1.7	32
146	Catalytic bioscavengers against toxic esters, an alternative approach for prophylaxis and treatments of poisonings. Acta Naturae, 2009, 1, 68-79.	1.7	13
147	An unexpected plasma cholinesterase activity rebound after challenge with a high dose of the nerve agent VX. Toxicology, 2008, 248, 151-157.	4.2	32
148	Mechanism of hydrolysis of dicholine esters with long polymethylene chain by human butyrylcholinesterase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1818-1824.	2.3	5
149	Aging of Cholinesterases Phosphylated by Tabun Proceeds through O-Dealkylation. Journal of the American Chemical Society, 2008, 130, 16011-16020.	13.7	106
150	Kinetic analysis of effector modulation of butyrylcholinesteraseâ€catalysed hydrolysis of acetanilides and homologous esters. FEBS Journal, 2008, 275, 2617-2631.	4.7	21
151	A collaborative endeavor to design cholinesterase-based catalytic scavengers against toxic organophosphorus esters. Chemico-Biological Interactions, 2008, 175, 273-280.	4.0	64
152	Mass spectrometry identifies covalent binding of soman, sarin, chlorpyrifos oxon, diisopropyl fluorophosphate, and FP-biotin to tyrosines on tubulin: A potential mechanism of long term toxicity by organophosphorus agents. Chemico-Biological Interactions, 2008, 175, 180-186.	4.0	71
153	Fast affinity purification coupled with mass spectrometry for identifying organophosphate labeled plasma butyrylcholinesterase. Chemico-Biological Interactions, 2008, 175, 68-72.	4.0	20
154	Hysteresis of insect acetylcholinesterase. Chemico-Biological Interactions, 2008, 175, 410-412.	4.0	8
155	Structural Basis for Natural Lactonase and Promiscuous Phosphotriesterase Activities. Journal of Molecular Biology, 2008, 379, 1017-1028.	4.2	159
156	Versatile and efficient functionalisation of multiallylic dendronised polymers: can dense packing be reached?. Chemical Communications, 2008, , 1341.	4.1	9
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