Pascale Marchot

List of Publications by Year
in descending order

82 papers	4,825 citations	136950 32 h-index	91884 69 g-index
87 all docs	87 docs citations	87 times ranked	5100 citing authors

#	Article	IF	Citations
1	Structures of Aplysia AChBP complexes with nicotinic agonists and antagonists reveal distinctive binding interfaces and conformations. EMBO Journal, 2005, 24, 3635-3646.	7.8	602
2	Structural insights into ligand interactions at the acetylcholinesterase peripheral anionic site. EMBO Journal, 2003, 22, 1-12.	7.8	362
3	Acetylcholinesterase inhibition by fasciculin: Crystal structure of the complex. Cell, 1995, 83, 503-512.	28.9	357
4	Crystal structure of a Cbtxâ€"AChBP complex reveals essential interactions between snake Î±-neurotoxins and nicotinic receptors. EMBO Journal, 2005, 24, 1512-1522.	7.8	302
5	Freeze-frame inhibitor captures acetylcholinesterase in a unique conformation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1449-1454.	7.1	297
6	ESTHER, the database of the Î±/Î²-hydrolase fold superfamily of proteins: tools to explore diversity of functions. Nucleic Acids Research, 2012, 41, D423-D429.	14.5	244
7	Immunocytochemical Localization and Crystal Structure of Human Frequenin (Neuronal Calcium) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.4	176
8	Structural determinants in phycotoxins and AChBP conferring high affinity binding and nicotinic AChR antagonism. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6076-6081.	7.1	156
9	Conformational Flexibility of the Acetylcholinesterase Tetramer Suggested by X-ray Crystallography. Journal of Biological Chemistry, 1999, 274, 30370-30376.	3.4	154
10	Structural determinants for interaction of partial agonists with acetylcholine binding protein and neuronal Î±7 nicotinic acetylcholine receptor. EMBO Journal, 2009, 28, 3040-3051.	7.8	153
11	ESTHER, the database of the Â/Â-hydrolase fold superfamily of proteins. Nucleic Acids Research, 2004, 32, 145D-147.	14.5	150
12	Structural Analysis of the Synaptic Protein Neuroligin and Its Î²-Neurexin Complex: Determinants for Folding and Cell Adhesion. Neuron, 2007, 56, 979-991.	8.1	142
13	Crystal Structure of Mouse Acetylcholinesterase. Journal of Biological Chemistry, 1999, 274, 2963-2970.	3.4	117
14	Substrate and Product Trafficking through the Active Center Gorge of Acetylcholinesterase Analyzed by Crystallography and Equilibrium Binding. Journal of Biological Chemistry, 2006, 281, 29256-29267.	3.4	117
15	The threeâ€finger toxin fold: a multifunctional structural scaffold able to modulate cholinergic functions. Journal of Neurochemistry, 2017, 142, 7-18.	3.9	84
16	Structural bases for the specificity of cholinesterase catalysis and inhibition. Toxicology Letters, 1995, 82-83, 453-458.	0.8	79
17	Mechanism of Acetylcholinesterase Inhibition by Fasciculin:Â A 5-ns Molecular Dynamics Simulation. Journal of the American Chemical Society, 2002, 124, 6153-6161.	13.7	75
18	USE OF X-RAY MICROTOMOGRAPHY TO FOLLOW THE CONVECTIVE HEAT DRYING OF WASTEWATER SLUDGES. Drying Technology, 2002, 20, 1053-1069.	3.1	70

#	ARTICLE	IF	CITATIONS
19	Characterization of Elapidae snake venom components using optimized reverse-phase high-performance liquid chromatographic conditions and screening assays for .alpha.-neurotoxin and phospholipase A2 activities. Biochemistry, 1986, 25, 7235-7243.	2.5	63
20	Cyclic imine toxins from dinoflagellates: a growing family of potent antagonists of the nicotinic acetylcholine receptors. Journal of Neurochemistry, 2017, 142, 41-51.	3.9	59
21	Soluble monomeric acetylcholinesterase from mouse: Expression, purification, and crystallization in complex with fasciculin. Protein Science, 1996, 5, 672-679.	7.6	56
22	Residues at the Subunit Interfaces of the Nicotinic Acetylcholine Receptor That Contribute to Î±-Conotoxin M1 Binding. Molecular Pharmacology, 1998, 53, 787-794.	2.3	46
23	Enzymatic Activity and Protein Interactions in Alpha/Beta Hydrolase Fold Proteins: Moonlighting Versus Promiscuity. Protein and Peptide Letters, 2012, 19, 132-143.	0.9	46
24	Expression and Activity of Mutants of Fasciculin, a Peptidic Acetylcholinesterase Inhibitor from Mamba Venom. Journal of Biological Chemistry, 1997, 272, 3502-3510.	3.4	44
25	Afaacytin, an alphabeta-fibrinogenase from Cerastes cerastes (Horned Viper) Venom, Activates Purified Factor X and Induces Serotonin Release from Human Blood Platelets. FEBS Journal, 1995, 233, 756-765.	0.2	43
26	Marine Macrocyclic Imines, Pinnatoxins A and G: Structural Determinants and Functional Properties to Distinguish Neuronal Î±7 from Muscle Î±12Î²Î³Î´ nAChRs. Structure, 2015, 23, 1106-1115.	3.3	42
27	The neuroligins and the synaptic pathway in Autism Spectrum Disorder. Neuroscience and Biobehavioral Reviews, 2020, 119, 37-51.	6.1	40
28	Expression of the standard scorpion alpha-toxin AaH II and AaH II mutants leading to the identification of some key bioactive elements. Biochimica Et Biophysica Acta - General Subjects, 2005, 1723, 91-99.	2.4	39
29	Proteins with an alpha/beta hydrolase fold: Relationships between subfamilies in an ever-growing superfamily. Chemico-Biological Interactions, 2013, 203, 266-268.	4.0	39
30	A fibrinogen-clotting serine proteinase from Cerastes cerastes (horned viper) venom with arginine-esterase and amidase activities. Purification, characterization and kinetic parameter determination. Toxicon, 1992, 30, 1399-1410.	1.6	38
31	Structural insights into the exquisite selectivity of neurexin/neuroligin synaptic interactions. EMBO Journal, 2010, 29, 2461-2471.	7.8	38
32	Insecticide resistance through mutations in cholinesterases or carboxylesterases: data mining in the ESTHER database. Journal of Pesticide Sciences, 2010, 35, 315-320.	1.4	32
33	In vivo synergy of cardiotoxin and phospholipase A2 from the elapid snake Naja mossambica mossambica. Toxicon, 1987, 25, 427-431.	1.6	30
34	Use of high performance liquid chromatography to demonstrate quantitative variation in components of venom from the scorpion Androctonus australis hector. Toxicon, 1987, 25, 569-573.	1.6	30
35	Structural insights into conformational flexibility at the peripheral site and within the active center gorge of AChE. Chemico-Biological Interactions, 2005, 157-158, 159-165.	4.0	30
36	Steric and Dynamic Parameters Influencing In Situ Cycloadditions to Form Triazole Inhibitors with Crystalline Acetylcholinesterase. Journal of the American Chemical Society, 2016, 138, 1611-1621.	13.7	30

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37	Aspergillus niger Protein EstA Defines a New Class of Fungal Esterases within the Î±/Î² Hydrolase Fold Superfamily of Proteins. Structure, 2004, 12, 677-687.	3.3	29
38	Conformational Remodeling of Femtomolar Inhibitorâ^'Acetylcholinesterase Complexes in the Crystalline State. Journal of the American Chemical Society, 2010, 132, 18292-18300.	13.7	29
39	Structure of fasciculin 2 from green mamba snake venom: evidence for unusual loop flexibility. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 87-92.	2.5	26
40	Inhibition of mouse acetylcholinesterase by fasciculin: Crystal structure of the complex and mutagenesis of fasciculin. Toxicon, 1998, 36, 1613-1622.	1.6	25
41	Theoretical analysis of the structure of the peptide fasciculin and its docking to acetylcholinesterase. Protein Science, 1995, 4, 703-715.	7.6	23
42	Use of a purified and functional recombinant calcium-channel Î²4 subunit in surface-plasmon resonance studies. Biochemical Journal, 2002, 364, 285-292.	3.7	22
43	New friendly tools for users of ESTHER, the database of the Î±/Î²-hydrolase fold superfamily of proteins. Chemico-Biological Interactions, 2005, 157-158, 339-343.	4.0	22
44	Structural Insights into Antibody Sequestering and Neutralizing of Na+ Channel Î±-Type Modulator from Old World Scorpion Venom. Journal of Biological Chemistry, 2012, 287, 14136-14148.	3.4	20
45	Crystal Structure of Snake Venom Acetylcholinesterase in Complex with Inhibitory Antibody Fragment Fab410 Bound at the Peripheral Site. Journal of Biological Chemistry, 2015, 290, 1522-1535.	3.4	20
46	Localization of the toxic site of naja mossambica cardiotoxins: Small synthetic peptides express an in vivo lethality. Biochemical and Biophysical Research Communications, 1988, 153, 642-647.	2.1	17
47	Toxins selective for subunit interfaces as probes of nicotinic acetylcholine receptor structure. Journal of Physiology (Paris), 1998, 92, 79-83.	2.1	17
48	Selective distinction at equilibrium between the two alpha-neurotoxin binding sites of Torpedo acetylcholine receptor by microtitration. FEBS Journal, 1988, 174, 537-542.	0.2	15
49	Structural Characterization of Agonist and Antagonist-Bound Acetylcholine-Binding Protein From Aplysia californica. Journal of Molecular Neuroscience, 2006, 30, 101-102.	2.3	15
50	Patient-derived antibodies reveal the subcellular distribution and heterogeneous interactome of LGI1. Brain, 0, , .	7.6	12
51	Monitoring the purification by high-performance liquid chromatography of cardiotoxins from Naja mossambica mossambica using phase-sensitive two-dimensional nuclear magnetic resonance. FEBS Journal, 1987, 168, 603-607.	0.2	11
52	Tracking the Origin and Divergence of Cholinesterases and Neuroligins: The Evolution of Synaptic Proteins. Journal of Molecular Neuroscience, 2014, 53, 362-369.	2.3	11
53	The Ig-like domain of Punctin/MADD-4 is the primary determinant for interaction with the ectodomain of neuroligin NLG-1. Journal of Biological Chemistry, 2020, 295, 16267-16279.	3.4	11
54	Structureâ€"function relationships of the Î±/Î²-hydrolase fold domain of neuroligin: A comparison with acetylcholinesterase. Chemico-Biological Interactions, 2010, 187, 49-55.	4.0	10

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55	Molecular Characterization of Monoclonal Antibodies that Inhibit Acetylcholinesterase by Targeting the Peripheral Site and Backdoor Region. PLoS ONE, 2013, 8, e77226.	2.5	10
56	The Neuroligins and Their Ligands: from Structure to Function at the Synapse. Journal of Molecular Neuroscience, 2014, 53, 387-396.	2.3	10
57	A Triad of Crystals Sheds Light on MDGA Interference with Neuroligation. Neuron, 2017, 95, 729-732.	8.1	10
58	Relationships of human Î±/Î² hydrolase fold proteins and other organophosphate-interacting proteins. Chemico-Biological Interactions, 2016, 259, 343-351.	4.0	9
59	Electron paramagnetic resonance reveals altered topography of the active center gorge of acetylcholinesterase after binding of fasciculin to the peripheral site. BBA - Proteins and Proteomics, 1999, 1430, 349-358.	2.1	8
60	Natural genomic amplification of cholinesterase genes in animals. Journal of Neurochemistry, 2017, 142, 73-81.	3.9	8
61	Crystal Structure of Mouse Acetylcholinesterase. , 1998, , 315-322.		7
62	On the kaliotoxin and dendrotoxin binding sites on rat brain synaptosomes. Toxicon, 2000, 38, 1749-1758.	1.6	5
63	Hot Spots for Protein Partnerships at the Surface of Cholinesterases and Related Î±/Î² Hydrolase Fold Proteins or Domainsâ€"A Structural Perspective. Molecules, 2018, 23, 35.	3.8	5
64	Selective loss of binding sites for the iodinated alpha-neurotoxin I from Naja mossambica mossambica venom upon enzymatic deglycosylation of Torpedo electric organ membranes. FEBS Journal, 1988, 174, 543-550.	0.2	4
65	Editorial [Hot Topic: Hydrolase Versus Other Functions of Members of the Alpha/Beta-Hydrolase Fold Superfamily of Proteins (Guest Editor: Pascale Marchot and Arnaud Chatonnet)]. Protein and Peptide Letters, 2012, 19, 130-131.	0.9	4
66	Preface: Cholinergic Mechanisms. Journal of Neurochemistry, 2017, 142, 3-6.	3.9	4
67	Comparative mapping of selected structural determinants on the extracellular domains of cholinesterase-like cell-adhesion molecules. Neuropharmacology, 2021, 184, 108381.	4.1	4
68	(28) Structural insights into AChE inhibition by monoclonal antibodies. Chemico-Biological Interactions, 2005, 157-158, 397-400.	4.0	3
69	Structural Comparison of Three Crystalline Complexes of a Peptidic Toxin With a Synaptic Acetylcholine Recognition Protein. Journal of Molecular Neuroscience, 2006, 30, 103-104.	2.3	3
70	An evolutionary perspective on the first disulfide bond in members of the cholinesterase-carboxylesterase (COesterase) family: Possible outcomes for cholinesterase expression in prokaryotes. Chemico-Biological Interactions, 2019, 308, 179-184.	4.0	3
71	Structural Determinants of Fasciculin Specificity for Acetylcholinesterase. , 1995, , 197-202.		3
72	Special Issue on â€œfreshwater and marine toxinsâ€• Toxicon, 2014, 91, 1-4.	1.6	2

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73	Lâ€™interaction fasciculine-acÃ©tylcholinestÃ©rase. SociÃ©tÃ© De Biologie Journal, 1999, 193, 505-508.	0.3	2
74	Crystal structure of a Cbtxâ€"AChBP complex reveals essential interactions between snake Î±-neurotoxins and nicotinic receptors. EMBO Journal, 2006, 25, 266-266.	7.8	1
75	Elapidae Toxins: The Fasciculins, and their Interaction with Acetylcholinesterase. , 2000, , 246-275.		1
76	Aspergillus niger Protein EstA Defines a New Class of Fungal Esterases within the Î±/Î² Hydrolase Fold Superfamily of Proteins. Structure, 2004, 12, 1545.	3.3	0
77	(27) A. niger protein â€œEstAâ€, perhaps a new electrotactin, defines a new class of fungal esterases within the Î±/Î² hydrolase fold superfamily. Chemico-Biological Interactions, 2005, 157-158, 395-396.	4.0	0
78	Special issue on Â«Toxins: From threats to benefitsÂ». Toxicon, 2013, 75, 1-2.	1.6	0
79	Click chemistry: an original approach for drug discovery. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, s23-s23.	0.3	0
80	Mechanism of acetylcholinesterase inhibition by fasciculin. , 2004, , 727-728.		0
81	Fasciculin Inhibition of Mouse Acetylcholinesterase. , 1998, , 331-338.		0
82	Expression and Purification of Recombinant Mutants of Fasciculin from Mammalian Cells. , 1998, , 240-241.		0