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	Comparative mapping of selected structural determinants on the extracellular domains of cholinesterase-like cell-adhesion molecules. Neuropharmacology, 2021, 184, 108381.	4.1	4
2	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
3	The neuroligins and the synaptic pathway in Autism Spectrum Disorder. Neuroscience and Biobehavioral Reviews, 2020, 119, 37-51.	6.1	40
4	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
5	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
6	The threeâ€finger toxin fold: a multifunctional structural scaffold able to modulate cholinergic functions. Journal of Neurochemistry, 2017, 142, 7-18.	3.9	84
7	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
8	Natural genomic amplification of cholinesterase genes in animals. Journal of Neurochemistry, 2017, 142, 73-81.	3.9	8
9	Preface: Cholinergic Mechanisms. Journal of Neurochemistry, 2017, 142, 3-6.	3.9	4
10	A Triad of Crystals Sheds Light on MDGA Interference with Neuroligation. Neuron, 2017, 95, 729-732.	8.1	10
11	Relationships of human Î±/Î² hydrolase fold proteins and other organophosphate-interacting proteins. Chemico-Biological Interactions, 2016, 259, 343-351.	4.0	9
12	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
13	Marine Macrocyclic Imines, Pinnatoxins A and G: Structural Determinants and Functional Properties to Distinguish Neuronal Î±7 from Muscle Î±12Î²2Î³1Î´ nAChRs. Structure, 2015, 23, 1106-1115.	3.3	42
14	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
15	Special Issue on â€œfreshwater and marine toxinsâ€. Toxicon, 2014, 91, 1-4.	1.6	2
16	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
17	The Neuroligins and Their Ligands: from Structure to Function at the Synapse. Journal of Molecular Neuroscience, 2014, 53, 387-396.	2.3	10
18	Special issue on Â«Toxins: From threats to benefitsÂ». Toxicon, 2013, 75, 1-2.	1.6	0

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19	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
20	Molecular Characterization of Monoclonal Antibodies that Inhibit Acetylcholinesterase by Targeting the Peripheral Site and Backdoor Region. PLoS ONE, 2013, 8, e77226.	2.5	10
21	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
22	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
23	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
24	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
25	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
26	Structural insights into the exquisite selectivity of neurexin/neuroligin synaptic interactions. EMBO Journal, 2010, 29, 2461-2471.	7.8	38
27	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
28	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
29	Conformational Remodeling of Femtomolar Inhibitorâ^'Acetylcholinesterase Complexes in the Crystalline State. Journal of the American Chemical Society, 2010, 132, 18292-18300.	13.7	29
30	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
31	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
32	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
33	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
34	Structural Characterization of Agonist and Antagonist-Bound Acetylcholine-Binding Protein From Aplysia californica. Journal of Molecular Neuroscience, 2006, 30, 101-102.	2.3	15
35	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
36	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

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37	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
38	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
39	(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
40	(28) Structural insights into AChE inhibition by monoclonal antibodies. Chemico-Biological Interactions, 2005, 157-158, 397-400.	4.0	3
41	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
42	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
43	ESTHER, the database of the Â/Â-hydrolase fold superfamily of proteins. Nucleic Acids Research, 2004, 32, 145D-147.	14.5	150
44	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
45	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
46	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
47	Click chemistry: an original approach for drug discovery. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, s23-s23.	0.3	0
48	Mechanism of acetylcholinesterase inhibition by fasciculin. , 2004, , 727-728.		0
49	Structural insights into ligand interactions at the acetylcholinesterase peripheral anionic site. EMBO Journal, 2003, 22, 1-12.	7.8	362
50	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
51	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
52	USE OF X-RAY MICROTOMOGRAPHY TO FOLLOW THE CONVECTIVE HEAT DRYING OF WASTEWATER SLUDGES. Drying Technology, 2002, 20, 1053-1069.	3.1	70
53	Immunocytochemical Localization and Crystal Structure of Human Frequenin (Neuronal Calcium) Tj ETQq1 1 0.784314 rgBT /Overloc	3.4	176
54	On the kaliotoxin and dendrotoxin binding sites on rat brain synaptosomes. Toxicon, 2000, 38, 1749-1758.	1.6	5

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55	Elapidae Toxins: The Fasciculins, and their Interaction with Acetylcholinesterase. , 2000, , 246-275.		1
56	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
57	Conformational Flexibility of the Acetylcholinesterase Tetramer Suggested by X-ray Crystallography. Journal of Biological Chemistry, 1999, 274, 30370-30376.	3.4	154
58	Crystal Structure of Mouse Acetylcholinesterase. Journal of Biological Chemistry, 1999, 274, 2963-2970.	3.4	117
59	Lâ€™interaction fasciculine-acÃ©tylcholinestÃ©rase. SociÃ©tÃ© De Biologie Journal, 1999, 193, 505-508.	0.3	2
60	Toxins selective for subunit interfaces as probes of nicotinic acetylcholine receptor structure. Journal of Physiology (Paris), 1998, 92, 79-83.	2.1	17
61	Inhibition of mouse acetylcholinesterase by fasciculin: Crystal structure of the complex and mutagenesis of fasciculin. Toxicon, 1998, 36, 1613-1622.	1.6	25
62	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
63	Crystal Structure of Mouse Acetylcholinesterase. , 1998, , 315-322.		7
64	Fasciculin Inhibition of Mouse Acetylcholinesterase. , 1998, , 331-338.		0
65	Expression and Purification of Recombinant Mutants of Fasciculin from Mammalian Cells. , 1998, , 240-241.		0
66	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
67	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
68	Soluble monomeric acetylcholinesterase from mouse: Expression, purification, and crystallization in complex with fasciculin. Protein Science, 1996, 5, 672-679.	7.6	56
69	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
70	Acetylcholinesterase inhibition by fasciculin: Crystal structure of the complex. Cell, 1995, 83, 503-512.	28.9	357
71	Structural bases for the specificity of cholinesterase catalysis and inhibition. Toxicology Letters, 1995, 82-83, 453-458.	0.8	79
72	Theoretical analysis of the structure of the peptide fasciculin and its docking to acetylcholinesterase. Protein Science, 1995, 4, 703-715.	7.6	23

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73	Structural Determinants of Fasciculin Specificity for Acetylcholinesterase. , 1995, , 197-202.		3
74	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
75	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
76	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
77	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
78	In vivo synergy of cardiotoxin and phospholipase A2 from the elapid snake Naja mossambica mossambica. Toxicon, 1987, 25, 427-431.	1.6	30
79	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
80	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
81	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
82	Patient-derived antibodies reveal the subcellular distribution and heterogeneous interactome of LGI1. Brain, 0, , .	7.6	12