

Francisco J Barrantes

List of Publications by Year in descending order

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225
papers

7,619
citations

43973

48
h-index

71532

76
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233
all docs

233
docs citations

233
times ranked

5009
citing authors

#	ARTICLE	IF	CITATIONS
1	How cholesterol interacts with membrane proteins: an exploration of cholesterol-binding sites including CRAC, CARC, and tilted domains. <i>Frontiers in Physiology</i> , 2013, 4, 31.	1.3	391
2	Sphingolipid/cholesterol regulation of neurotransmitter receptor conformation and function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2345-2361.	1.4	208
3	Disclosure of cholesterol recognition motifs in transmembrane domains of the human nicotinic acetylcholine receptor. <i>Scientific Reports</i> , 2011, 1, 69.	1.6	201
4	Immobilized lipid in acetylcholine receptor-rich membranes from <i>Torpedo marmorata</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978, 75, 4329-4333.	3.3	191
5	Effects of lipids on acetylcholine receptor. Essential need of cholesterol for maintenance of agonist-induced state transitions in lipid vesicles. <i>Biochemistry</i> , 1982, 21, 3622-3629.	1.2	186
6	Functional properties of the acetylcholine receptor incorporated in model lipid membranes. Differential effects of chain length and head group of phospholipids on receptor affinity states and receptor-mediated ion translocation.. <i>Journal of Biological Chemistry</i> , 1984, 259, 9188-9198.	1.6	157
7	Structural basis for lipid modulation of nicotinic acetylcholine receptor function. <i>Brain Research Reviews</i> , 2004, 47, 71-95.	9.1	156
8	Deficits in cholinergic neurotransmission and their clinical correlates in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2016, 2, 16001.	2.5	143
9	Nanoscale organization of nicotinic acetylcholine receptors revealed by stimulated emission depletion microscopy. <i>Neuroscience</i> , 2007, 144, 135-143.	1.1	130
10	Functional properties of the acetylcholine receptor incorporated in model lipid membranes. Differential effects of chain length and head group of phospholipids on receptor affinity states and receptor-mediated ion translocation. <i>Journal of Biological Chemistry</i> , 1984, 259, 9188-98.	1.6	122
11	Peptide extraction by alkaline treatment is accompanied by rearrangement of the membrane-bound acetylcholine receptor from <i>torpedo marmorata</i> . <i>FEBS Letters</i> , 1980, 112, 73-78.	1.3	110
12	Apoptosis of Retinal Photoreceptors During Development In Vitro: Protective Effect of Docosahexaenoic Acid. <i>Journal of Neurochemistry</i> , 1997, 69, 504-513.	2.1	110
13	Mixing liquids in microseconds. <i>Review of Scientific Instruments</i> , 1985, 56, 283-290.	0.6	106
14	A mirror code for protein-cholesterol interactions in the two leaflets of biological membranes. <i>Scientific Reports</i> , 2016, 6, 21907.	1.6	105
15	Agonist-activated ionic channels in acetylcholine receptor reconstituted into planar lipid bilayers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 3586-3590.	3.3	101
16	Wnt-7a Induces Presynaptic Colocalization of $\alpha 7$ -Nicotinic Acetylcholine Receptors and Adenomatous Polyposis Coli in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 5313-5325.	1.7	101
17	Direct structural localization of two toxin-recognition sites on an ACh receptor protein. <i>Nature</i> , 1982, 299, 81-84.	13.7	99
18	Docosahexaenoic Acid Is Required for the Survival of Rat Retinal Photoreceptors In Vitro. <i>Journal of Neurochemistry</i> , 1996, 66, 1851-1859.	2.1	99

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19	Agonist-mediated changes of the acetylcholine receptor in its membrane environment. <i>Journal of Molecular Biology</i> , 1978, 124, 1-26.	2.0	98
20	Cholesterol effects on nicotinic acetylcholine receptor. <i>Journal of Neurochemistry</i> , 2007, 103, 72-80.	2.1	91
21	Nicotinic acetylcholine receptor is internalized via a Rac-dependent, dynamin-independent endocytic pathway. <i>Journal of Cell Biology</i> , 2008, 181, 1179-1193.	2.3	88
22	The nicotinic cholinergic receptor: Different compositions evidenced by statistical analysis. <i>Biochemical and Biophysical Research Communications</i> , 1975, 62, 407-414.	1.0	87
23	Cholesterol depletion activates rapid internalization of submicron-sized acetylcholine receptor domains at the cell membrane. <i>Molecular Membrane Biology</i> , 2007, 24, 1-15.	2.0	86
24	Phospholipid chain immobilization and steriod rotational immobilization in acetylcholine receptor-rich membranes from torpedo marmorata. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 645, 97-101.	1.4	83
25	Physical state of bulk and protein-associated lipid in nicotinic acetylcholine receptor-rich membrane studied by laurdan generalized polarization and fluorecence energy transfer. <i>Biophysical Journal</i> , 1996, 70, 1275-1284.	0.2	81
26	Mutations at Lipid-Exposed Residues of the Acetylcholine Receptor Affect Its Gating Kinetics. <i>Molecular Pharmacology</i> , 1998, 54, 146-153.	1.0	81
27	Disclosure of Discrete Sites for Phospholipid and Sterols at the ProteinâLipid Interface in Native Acetylcholine Receptor-Rich Membrane. <i>Biochemistry</i> , 1998, 37, 16653-16662.	1.2	79
28	Kinetics of agonist-induced intrinsic fluorecence changes in membrane-bound acetylcholine receptor. <i>Nature</i> , 1976, 263, 429-431.	13.7	77
29	Steroid Structural Requirements for Stabilizing or Disrupting Lipid Domainsâ. <i>Biochemistry</i> , 2003, 42, 14267-14276.	1.2	77
30	Structural details of membrane-bound acetylcholine receptor from Tropedo marmorata.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 952-956.	3.3	74
31	Molecular mechanisms of protein-cholesterol interactions in plasma membranes: Functional distinction between topological (tilted) and consensus (CARC/CRAC) domains. <i>Chemistry and Physics of Lipids</i> , 2016, 199, 52-60.	1.5	73
32	Modulation of Muscle Nicotinic Acetylcholine Receptors by the Glucocorticoid Hydrocortisone. <i>Journal of Biological Chemistry</i> , 1996, 271, 25835-25841.	1.6	72
33	Cholesterol-Recognition Motifs in Membrane Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1135, 3-25.	0.8	67
34	Structuralâfunctional correlates of the nicotinic acetylcholine receptor and its lipid microenvironment. <i>FASEB Journal</i> , 1993, 7, 1460-1467.	0.2	65
35	Topography of Nicotinic Acetylcholine Receptor Membrane-embedded Domains. <i>Journal of Biological Chemistry</i> , 2000, 275, 37333-37339.	1.6	65
36	LipidâProtein Interactions and Effect of Local Anesthetics in Acetylcholine Receptor-Rich Membranes fromTorpedo marmorataElectric Organâ. <i>Biochemistry</i> , 2003, 42, 9167-9175.	1.2	65

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37	Conformational Dynamics of the Nicotinic Acetylcholine Receptor Channel: A 35-ns Molecular Dynamics Simulation Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 1291-1299.	6.6	64
38	<scp>STED</scp> microscopy of living cells â€“ new frontiers in membrane and neurobiology. <i>Journal of Neurochemistry</i> , 2013, 126, 203-212.	2.1	62
39	Endogenous Chemical Receptors: Some Physical Aspects. <i>Annual Review of Biophysics and Bioengineering</i> , 1979, 8, 287-321.	5.3	56
40	Subcellular localization of creatine kinase in Torpedo electrocytes: association with acetylcholine receptor-rich membranes.. <i>Journal of Cell Biology</i> , 1985, 100, 1063-1072.	2.3	56
41	Relevance of CARC and CRAC Cholesterol-Recognition Motifs in the Nicotinic Acetylcholine Receptor and Other Membrane-Bound Receptors. <i>Current Topics in Membranes</i> , 2017, 80, 3-23.	0.5	56
42	Nicotinic acetylcholine receptor channels are influenced by the physical state of their membrane environment. <i>Biophysical Journal</i> , 1996, 70, 2155-2164.	0.2	54
43	The lipid habitats of neurotransmitter receptors in brain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2662-2670.	1.4	54
44	The Lipid Environment of the Nicotinic Acetylcholine Receptor in Native and Reconstituted Membrane. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1989, 24, 437-478.	2.3	53
45	Recent Developments in the Structure and Function of the Acetylcholine Receptor. <i>International Review of Neurobiology</i> , 1983, 24, 259-341.	0.9	52
46	Cholesterol Modulates the Rate and Mechanism of Acetylcholine Receptor Internalization. <i>Journal of Biological Chemistry</i> , 2011, 286, 17122-17132.	1.6	52
47	Translational diffusion of acetylcholine receptor (monomeric and dimeric forms) of Torpedo marmorata reconstituted into phospholipid bilayers studied by fluorescence recovery after photobleaching. <i>Biochemistry</i> , 1982, 21, 5750-5755.	1.2	51
48	Metabolic cholesterol depletion hinders cell-surface trafficking of the nicotinic acetylcholine receptor. <i>Neuroscience</i> , 2004, 128, 239-249.	1.1	51
49	Phylogenetic conservation of proteinâ€™lipid motifs in pentameric ligand-gated ion channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1796-1805.	1.4	51
50	Mechanics of Channel Gating of the Nicotinic Acetylcholine Receptor. <i>PLoS Computational Biology</i> , 2008, 4, e19.	1.5	49
51	Neuronal nicotinic acetylcholine receptorâ€™cholesterol crosstalk in Alzheimer's disease. <i>FEBS Letters</i> , 2010, 584, 1856-1863.	1.3	49
52	Association of spin-labeled local anesthetics at the hydrophobic surface of the acetylcholine receptor in native membranes from Torpedo marmorata. <i>Biochemistry</i> , 1990, 29, 8707-8713.	1.2	48
53	Targeting Brain \pm 7 Nicotinic Acetylcholine Receptors in Alzheimerâ€™s Disease: Rationale and Current Status. <i>CNS Drugs</i> , 2014, 28, 975-987.	2.7	48
54	Lipid matters: nicotinic acetylcholine receptor-lipid interactions (Review). <i>Molecular Membrane Biology</i> , 2002, 19, 277-284.	2.0	47

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55	Cholesterol Modulates the Organization of the \hat{I}^3M4 Transmembrane Domain of the Muscle Nicotinic Acetylcholine Receptor. <i>Biophysical Journal</i> , 2004, 86, 2261-2272.	0.2	46
56	Central Nervous System Targets and Routes for SARS-CoV-2: Current Views and New Hypotheses. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2793-2803.	1.7	46
57	Rotational Molecular Dynamics of the Membrane-Bound Acetylcholine Receptor Revealed by Phosphorescence Spectroscopy. <i>FEBS Journal</i> , 1981, 120, 389-397.	0.2	45
58	Oligomeric forms of the membrane-bound acetylcholine receptor disclosed upon extraction of the M(r) 43,000 nonreceptor peptide. <i>Journal of Cell Biology</i> , 1982, 92, 60-68.	2.3	45
59	The use of a cholinergic fluorescent probe for the study of the receptor proteolipid. <i>Molecular Pharmacology</i> , 1971, 7, 530-7.	1.0	44
60	Intrinsic fluorescence of the membrane-bound acetylcholine receptor: Its quenching by suberyldicholine. <i>Biochemical and Biophysical Research Communications</i> , 1976, 72, 479-488.	1.0	43
61	Creatine kinase activity in the Torpedo electrocyte and in the nonreceptor, peripheral v proteins from acetylcholine receptor-rich membranes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983, 80, 5440-5444.	3.3	43
62	Cells defective in sphingolipids biosynthesis express low amounts of muscle nicotinic acetylcholine receptor. <i>European Journal of Neuroscience</i> , 1999, 11, 1615-1623.	1.2	43
63	Composition of Lipids in Elasmobranch Electric Organ and Acetylcholine Receptor Membranes. <i>Journal of Neurochemistry</i> , 1987, 49, 1333-1340.	2.1	42
64	Hydrocortisone and 11 \hat{a} €“desoxycortisone modify acetylcholine receptor channel gating. <i>NeuroReport</i> , 1993, 4, 143-146.	0.6	41
65	Modulation of acetylcholine receptor states by thiol modification. <i>Biochemistry</i> , 1980, 19, 2957-2965.	1.2	40
66	Fatty Acid Regulation of Voltage- and Ligand-Gated Ion Channel Function. <i>Frontiers in Physiology</i> , 2016, 7, 573.	1.3	40
67	Effect of local anaesthetics on steroid-nicotinic acetylcholine receptor interactions in native membranes of Torpedo marmorata electric organ. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1027, 287-294.	1.4	39
68	Unique Effects of Different Fatty Acid Species on the Physical Properties of the Torpedo Acetylcholine Receptor Membrane. <i>Journal of Biological Chemistry</i> , 2002, 277, 1249-1254.	1.6	39
69	Cholesterol modulation of nicotinic acetylcholine receptor surface mobility. <i>European Biophysics Journal</i> , 2010, 39, 213-227.	1.2	39
70	The Anticonvulsive Drug Lamotrigine Blocks Neuronal $\hat{I}^4\hat{I}^2$ Nicotinic Acetylcholine Receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 335, 401-408.	1.3	38
71	Modulation of Nicotinic Acetylcholine Receptor Conformational State by Free Fatty Acids and Steroids. <i>Journal of Biological Chemistry</i> , 2008, 283, 21478-21486.	1.6	37
72	Anandamide Revisited: How Cholesterol and Ceramides Control Receptor-Dependent and Receptor-Independent Signal Transmission Pathways of a Lipid Neurotransmitter. <i>Biomolecules</i> , 2018, 8, 31.	1.8	37

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73	Cholesterol Effects on Nicotinic Acetylcholine Receptor: Cellular Aspects. <i>Sub-Cellular Biochemistry</i> , 2010, 51, 467-487.	1.0	37
74	Sphingolipids are necessary for nicotinic acetylcholine receptor export in the early secretory pathway. <i>Journal of Neurochemistry</i> , 2007, 101, 1072-1084.	2.1	36
75	1-Pyrene-butyrylcholine: a fluorescent probe for the cholinergic system.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1975, 72, 3097-3101.	3.3	34
76	$\hat{1}\pm 7\hat{a}\epsilon$ type acetylcholine receptor localization and its modulation by nicotine and cholesterol in vascular endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 3276-3288.	1.2	34
77	Chaperoning $\hat{1}\pm 7$ neuronal nicotinic acetylcholine receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 718-729.	1.4	34
78	Fluorescence and molecular dynamics studies of the acetylcholine receptor $\hat{1}^3M4$ transmembrane peptide in reconstituted systems. <i>Molecular Membrane Biology</i> , 2005, 22, 471-483.	2.0	33
79	Transbilayer asymmetry and sphingomyelin composition modulate the preferential membrane partitioning of the nicotinic acetylcholine receptor in Lo domains. <i>Archives of Biochemistry and Biophysics</i> , 2016, 591, 76-86.	1.4	33
80	Boundary Lipids In The Nicotinic Acetylcholine Receptor Microenvironment. <i>Journal of Molecular Neuroscience</i> , 2010, 40, 87-90.	1.1	31
81	From hopanoids to cholesterol: Molecular clocks of pentameric ligand-gated ion channels. <i>Progress in Lipid Research</i> , 2016, 63, 1-13.	5.3	31
82	The role of nicotinic cholinergic neurotransmission in delusional thinking. <i>NPJ Schizophrenia</i> , 2020, 6, 16.	2.0	31
83	Pleiotropic effects of statins on brain cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183340.	1.4	29
84	Ceramides modulate cell-surface acetylcholine receptor levels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 917-930.	1.4	28
85	Cholesterol modulates acetylcholine receptor diffusion by tuning confinement sojourns and nanocluster stability. <i>Scientific Reports</i> , 2018, 8, 11974.	1.6	28
86	A comparative study of several membrane proteins from the nervous system. <i>Biochemical and Biophysical Research Communications</i> , 1973, 54, 395-402.	1.0	27
87	Differences between detergent-extracted acetylcholine receptor and $\hat{a}\epsilon$ cholinergic proteolipid $\hat{a}\epsilon$. <i>Nature</i> , 1975, 256, 325-327.	13.7	27
88	Partition profile of the nicotinic acetylcholine receptor in lipid domains upon reconstitution. <i>Journal of Lipid Research</i> , 2010, 51, 2629-2641.	2.0	27
89	Autoimmune Attack of the Neuromuscular Junction in Myasthenia Gravis: Nicotinic Acetylcholine Receptors and Other Targets. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2186-2194.	1.7	27
90	Preferential Distribution of the Fluorescent Phospholipid Probes NBD-Phosphatidylcholine and Rhodamine-Phosphatidylethanolamine in the Exofacial Leaflet of Acetylcholine Receptor-Rich Membranes from <i>Torpedo marmorata</i> . <i>Biochemistry</i> , 1995, 34, 4846-4855.	1.2	26

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91	Transient Cholesterol Effects on Nicotinic Acetylcholine Receptor Cell-Surface Mobility. PLoS ONE, 2014, 9, e100346.	1.1	26
92	Prenatal restraint stress decreases the expression of alpha-7 nicotinic receptor in the brain of adult rat offspring. Stress, 2015, 18, 435-445.	0.8	26
93	Recent applications of superresolution microscopy in neurobiology. Current Opinion in Chemical Biology, 2014, 20, 16-21.	2.8	25
94	Inhibitory action of 1-pyrene butyrylcholine and related compounds on choline uptake by cholinergic nerve endings. Journal of Neurochemistry, 1976, 27, 1253-1255.	2.1	24
95	A membrane-associated creatine kinase (EC 2.7.3.2) identified as an acidic species of the non-receptor, peripheral proteins in Torpedo acetylcholine receptor membranes. FEBS Letters, 1983, 152, 270-276.	1.3	24
96	Endogenous asymmetry of rat brain lipids and dominance of the right cerebral hemisphere in free fatty acid response to electroconvulsive shock. Brain Research, 1985, 339, 315-321.	1.1	24
97	Heterologous retinal cultured neurons and cell adhesion molecules induce clustering of acetylcholine receptors and polynucleation in mouse muscle BC3H-1 clonal cell line. Journal of Neuroscience Research, 1996, 43, 639-651.	1.3	24
98	Nicotinic Acetylcholine Receptor Induces Lateral Segregation of Phosphatidic Acid and Phosphatidylcholine in Reconstituted Membranes. Biochemistry, 2005, 44, 398-410.	1.2	24
99	Conformation-Sensitive Steroid and Fatty Acid Sites in the Transmembrane Domain of the Nicotinic Acetylcholine Receptor. Biochemistry, 2007, 46, 3503-3512.	1.2	24
100	A Cholesterol Recognition Motif in Human Phospholipid Scramblase 1. Biophysical Journal, 2014, 107, 1383-1392.	0.2	24
101	Steroids differentially inhibit the nicotinic acetylcholine receptor. NeuroReport, 2001, 12, 227-231.	0.6	23
102	Unbinding of Nicotine from the Acetylcholine Binding Protein: Steered Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2008, 112, 4087-4093.	1.2	23
103	Isolation and characterization of acetylcholine receptor membrane-associated (nonreceptor) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 147 T 3024-3034.	1.6	23
104	Nongenomic effects of steroids on the nicotinic acetylcholine receptor. Kidney International, 2000, 57, 1382-1389.	2.6	22
105	The unfolding palette of COVID-19 multisystemic syndrome and its neurological manifestations. Brain, Behavior, & Immunity - Health, 2021, 14, 100251.	1.3	22
106	Isolation and characterization of acetylcholine receptor membrane-associated (nonreceptor) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T 3024-34.	1.6	22
107	Expression of a neuronal nicotinic acetylcholine receptor in insect and mammalian host cell systems. Neurochemical Research, 2000, 25, 171-180.	1.6	21
108	Structure and dynamics of the α 7M4 transmembrane domain of the acetylcholine receptor in lipid bilayers: insights into receptor assembly and function. Molecular Membrane Biology, 2006, 23, 305-315.	2.0	21

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109	Pharmacotherapies for Parkinson's disease symptoms related to cholinergic degeneration. <i>Expert Opinion on Pharmacotherapy</i> , 2016, 17, 2405-2415.	0.9	21
110	Modulation of nicotinic acetylcholine receptor function through the outer and middle rings of transmembrane domains. <i>Current Opinion in Drug Discovery & Development</i> , 2003, 6, 620-32.	1.9	21
111	Identification of threonine 422 in transmembrane domain $\alpha 4$ of the nicotinic acetylcholine receptor as a possible site of interaction with hydrocortisone. <i>Neuropharmacology</i> , 2002, 43, 65-73.	2.0	20
112	Sphingomyelin composition and physical asymmetries in native acetylcholine receptor-rich membranes. <i>European Biophysics Journal</i> , 2002, 31, 417-427.	1.2	20
113	Homomeric and Heteromeric $\alpha 7$ Nicotinic Acetylcholine Receptors in Health and Some Central Nervous System Diseases. <i>Membranes</i> , 2021, 11, 664.	1.4	20
114	The acetylcholine receptor ligand-gated channel as a molecular target of disease and therapeutic agents. <i>Neurochemical Research</i> , 1997, 22, 391-400.	1.6	19
115	Lamotrigine is an open-channel blocker of the nicotinic acetylcholine receptor. <i>NeuroReport</i> , 2007, 18, 45-50.	0.6	19
116	Asymmetry of Diacylglycerol Metabolism in Rat Cerebral Hemispheres. <i>Journal of Neurochemistry</i> , 1986, 46, 1382-1386.	2.1	18
117	Blocking of the Nicotinic Acetylcholine Receptor Ion Channel by Chlorpromazine, a Noncompetitive Inhibitor: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20640-20648.	1.2	18
118	Structural and dynamic studies of the $\alpha 3$ -M4 trans-membrane domain of the nicotinic acetylcholine receptor. <i>Molecular Membrane Biology</i> , 2005, 22, 485-496.	2.0	17
119	Electron microscopy of proteolipid macromolecules from cerebral cortex. <i>Journal of Molecular Biology</i> , 1970, 52, 221-226.	2.0	16
120	Ric-3 chaperone-mediated stable cell-surface expression of the neuronal $\alpha 7$ nicotinic acetylcholine receptor in mammalian cells. <i>Acta Pharmacologica Sinica</i> , 2009, 30, 818-827.	2.8	16
121	Cell-surface translational dynamics of nicotinic acetylcholine receptors. <i>Frontiers in Synaptic Neuroscience</i> , 2014, 6, 25.	1.3	16
122	Nicotinic $\alpha 4$ Receptor-Mediated Cholinergic Influences on Food Intake and Activity Patterns in Hypothalamic Circuits. <i>PLoS ONE</i> , 2015, 10, e0133327.	1.1	15
123	Antibody-induced crosslinking and cholesterol-sensitive, anomalous diffusion of nicotinic acetylcholine receptors. <i>Journal of Neurochemistry</i> , 2020, 152, 663-674.	2.1	15
124	Purification by affinity chromatography of nicotinic and muscarinic hydrophobic proteins separated by Sephadex LH20. <i>Biochemical and Biophysical Research Communications</i> , 1975, 63, 194-201.	1.0	14
125	Extraction of peripheral proteins is accompanied by selective depletion of certain glycerophospholipid classes and changes in the phosphorylation pattern of acetylcholine-receptor-rich-membrane proteins. <i>Biochemical Journal</i> , 1987, 245, 111-118.	1.7	14
126	Changes in channel properties of acetylcholine receptors during the time course of thiol chemical modifications. <i>Pflügers Archiv European Journal of Physiology</i> , 1991, 418, 51-61.	1.3	14

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127	COVID-19 and neurological sequelae: Vitamin D as a possible neuroprotective and/or neuroreparative agent. <i>Life Sciences</i> , 2022, 297, 120464.	2.0	14
128	Studies on proteolipid proteins from cerebral cortex. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1972, 263, 368-381.	1.7	13
129	The position of the double bond in monounsaturated free fatty acids is essential for the inhibition of the nicotinic acetylcholine receptor. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2511-2520.	1.4	13
130	While We Wait for a Vaccine Against SARS-CoV-2, Why Not Think About Available Drugs?. <i>Frontiers in Physiology</i> , 2020, 11, 820.	1.3	13
131	Fast kinetics of antagonist-acetylcholine receptor interactions: A temperature-jump relaxation study. <i>Biochemical and Biophysical Research Communications</i> , 1980, 92, 766-774.	1.0	12
132	Conversion of acetylcholine receptor dimers to monomers upon depletion of non-receptor peripheral proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1984, 798, 374-381.	1.1	12
133	Lipid composition of purified transverse tubule membranes isolated from amphibian skeletal muscle. <i>Lipids and Lipid Metabolism</i> , 1987, 921, 398-404.	2.6	12
134	Lipid Metabolism in Electoplax. <i>Journal of Neurochemistry</i> , 1987, 49, 1341-1347.	2.1	12
135	Myogenic differentiation of the muscle clonal cell line BC3H-1 is accompanied by changes in its lipid composition. <i>Lipids</i> , 1992, 27, 669-675.	0.7	12
136	Assigning functions to residues in the acetylcholine receptor channel region (Review). <i>Molecular Membrane Biology</i> , 1997, 14, 167-177.	2.0	12
137	Antibody-Induced Acetylcholine Receptor Clusters Inhabit Liquid-Ordered and Liquid-Disordered Domains. <i>Biophysical Journal</i> , 2013, 105, 1601-1611.	0.2	12
138	The Contribution of Biophysics and Structural Biology to Current Advances in COVID-19. <i>Annual Review of Biophysics</i> , 2021, 50, 493-523.	4.5	12
139	Enzymic dissection of cerebral cortex synapses. <i>Brain Research</i> , 1970, 23, 305-313.	1.1	11
140	Effects of periodate oxidation and glycosidases on structural and functional properties of the acetylcholine receptor and the non-receptor, peripheral $1\frac{1}{2}$ -polypeptide (Mr 43,000). <i>Neurochemistry International</i> , 1982, 4, 289-302.	1.9	11
141	INTERACTIONS OF THE MEMBRANE-BOUND ACETYLCHOLINE RECEPTOR WITH THE NON-RECEPTOR PERIPHERAL ν -PEPTIDE. , 1982, , 315-328.		11
142	The neuronal nicotinic acetylcholine receptor in some hereditary epilepsies. <i>Neurochemical Research</i> , 2000, 25, 583-590.	1.6	11
143	Effect of organochlorine insecticides on nicotinic acetylcholine receptor-rich membranes. <i>Neuropharmacology</i> , 2000, 39, 1095-1106.	2.0	11
144	The Nicotinic Acetylcholine Receptor and its Lipid Microenvironment. <i>Jerusalem Symposia on Quantum Chemistry and Biochemistry</i> , 1992, , 185-198.	0.2	11

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145	Gangliosides in acetylcholine receptor-rich membranes from <i>Torpedo marmorata</i> and <i>Discopyge tschudii</i> . <i>Neurochemical Research</i> , 1993, 18, 599-603.	1.6	10
146	Lovastatin Differentially Regulates $\alpha 7$ and $\alpha 4$ Neuronal Nicotinic Acetylcholine Receptor Levels in Rat Hippocampal Neurons. <i>Molecules</i> , 2020, 25, 4838.	1.7	10
147	Dysregulation of Neuronal Nicotinic Acetylcholine Receptor "Cholesterol Crosstalk in Autism Spectrum Disorder. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 744597.	1.4	10
148	The constellation of cholesterol-dependent processes associated with SARS-CoV-2 infection. <i>Progress in Lipid Research</i> , 2022, 87, 101166.	5.3	10
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