Jean-Pierre Changeux

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the nature of allosteric transitions: A plausible model. Journal of Molecular Biology, 1965, 12, 88-118.	2.0	8,467
2	Allosteric proteins and cellular control systems. Journal of Molecular Biology, 1963, 6, 306-329.	2.0	2,093
3	Experimental and Theoretical Approaches to Conscious Processing. Neuron, 2011, 70, 200-227.	3.8	1,768
4	Conscious, preconscious, and subliminal processing: a testable taxonomy. Trends in Cognitive Sciences, 2006, 10, 204-211.	4.0	1,649
5	Selective stabilisation of developing synapses as a mechanism for the specification of neuronal networks. Nature, 1976, 264, 705-712.	13.7	1,559
6	Acetylcholine receptors containing the \hat{I}^22 subunit are involved in the reinforcing properties of nicotine. Nature, 1998, 391, 173-177.	13.7	1,239
7	Nicotinic Receptors at the Amino Acid Level. Annual Review of Pharmacology and Toxicology, 2000, 40, 431-458.	4.2	757
8	A neuronal network model linking subjective reports and objective physiological data during conscious perception. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8520-8525.	3.3	735
9	Development of Elementary Numerical Abilities: A Neuronal Model. Journal of Cognitive Neuroscience, 1993, 5, 390-407.	1.1	720
10	Allosteric Mechanisms of Signal Transduction. Science, 2005, 308, 1424-1428.	6.0	663
11	X-ray structure of a pentameric ligand-gated ion channel in an apparently open conformation. Nature, 2009, 457, 111-114.	13.7	644
12	Molecular and Physiological Diversity of Nicotinic Acetylcholine Receptors in the Midbrain Dopaminergic Nuclei. Journal of Neuroscience, 2001, 21, 1452-1463.	1.7	626
13	Abnormal avoidance learning in mice lacking functional high-affinity nicotine receptor in the brain. Nature, 1995, 374, 65-67.	13.7	612
14	Nicotinic receptors: allosteric transitions and therapeutic targets in the nervous system. Nature Reviews Drug Discovery, 2009, 8, 733-750.	21,5	591
15	Reduced antinociception in mice lacking neuronal nicotinic receptor subunits. Nature, 1999, 398, 805-810.	13.7	514
16	Conscious Processing and the Global Neuronal Workspace Hypothesis. Neuron, 2020, 105, 776-798.	3.8	487
17	A Neuronal Model of Predictive Coding Accounting for the Mismatch Negativity. Journal of Neuroscience, 2012, 32, 3665-3678.	1.7	476
18	Subunit Composition of Functional Nicotinic Receptors in Dopaminergic Neurons Investigated with Knock-Out Mice. Journal of Neuroscience, 2003, 23, 7820-7829.	1.7	473

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19	Allosteric Receptors after 30 Years. Neuron, 1998, 21, 959-980.	3.8	424
20	X-ray structures of general anaesthetics bound to a pentameric ligand-gated ion channel. Nature, 2011, 469, 428-431.	13.7	407
21	Mutations in the channel domain of a neuronal nicotinic receptor convert ion selectivity from cationic to anionic. Nature, 1992, 359, 500-505.	13.7	406
22	Chimaeric nicotinic–serotonergic receptor combines distinct ligand binding and channel specificities. Nature, 1993, 366, 479-483.	13.7	399
23	Nicotine addiction and nicotinic receptors: lessons from genetically modified mice. Nature Reviews Neuroscience, 2010, 11, 389-401.	4.9	381
24	Molecular evolution of the nicotinic acetylcholine receptor: An example of multigene family in excitable cells. Journal of Molecular Evolution, 1995, 40, 155-172.	0.8	378
25	Identification of Four Classes of Brain Nicotinic Receptors Using \hat{I}^22 Mutant Mice. Journal of Neuroscience, 1998, 18, 4461-4472.	1.7	372
26	The diversity of subunit composition in nAChRs: Evolutionary origins, physiologic and pharmacologic consequences. Journal of Neurobiology, 2002, 53, 447-456.	3.7	371
27	Calcium influx through nicotinic receptor in rat central neurons: Its relevance to cellular regulation. Neuron, 1992, 8, 135-143.	3.8	370
28	Large-Scale Purification of the Acetylcholine-Receptor Protein in Its Membrane-Bound and Detergent-Extracted Forms from Torpedo marmorata Electric Organ. FEBS Journal, 1977, 80, 215-224.	0.2	368
29	Neuronal Nicotinic Receptor a6 Subunit mRNA is Selectively Concentrated in Catecholaminergic Nuclei of the Rat Brain. European Journal of Neuroscience, 1996, 8, 2428-2439.	1.2	358
30	On the nature of allosteric transitions: Implications of non-exclusive ligand binding. Journal of Molecular Biology, 1966, 21, 265-274.	2.0	334
31	Distribution and Pharmacology of α6-Containing Nicotinic Acetylcholine Receptors Analyzed with Mutant Mice. Journal of Neuroscience, 2002, 22, 1208-1217.	1.7	330
32	Allostery and the Monod-Wyman-Changeux Model After 50 Years. Annual Review of Biophysics, 2012, 41, 103-133.	4.5	329
33	Calcitonin gene-related peptide, a peptide present in spinal cord motoneurons, increases the number of acetylcholine receptors in primary cultures of chick embryo myotubes. Neuroscience Letters, 1986, 71, 59-65.	1.0	319
34	lvermectin: A Positive Allosteric Effector of the α7 Neuronal Nicotinic Acetylcholine Receptor. Molecular Pharmacology, 1998, 53, 283-294.	1.0	294
35	Nicotinic receptor function: new perspectives from knockout mice. Trends in Pharmacological Sciences, 2000, 21, 211-217.	4.0	292
36	A prokaryotic proton-gated ion channel from the nicotinic acetylcholine receptor family. Nature, 2007, 445, 116-119.	13.7	288

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37	Allostery in Its Many Disguises: From Theory to Applications. Structure, 2019, 27, 566-578.	1.6	285
38	Brain nicotinic receptors: structure and regulation, role in learning and reinforcement1Published on the World Wide Web on 24 October 1997.1. Brain Research Reviews, 1998, 26, 198-216.	9.1	280
39	Transsynaptic degeneration â€~en cascade' in the cerebellar cortex of staggerer mutant rice. Brain Research, 1974, 67, 519-526.	1.1	274
40	Models of the extracellular domain of the nicotinic receptors and of agonist- and Ca2+-binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3210-3215.	3.3	263
41	Hierarchical Control of Dopamine Neuron-Firing Patterns by Nicotinic Receptors. Neuron, 2006, 50, 911-921.	3.8	263
42	In Vitro excitation of purified membrane fragments by cholinergic agonists. Journal of Membrane Biology, 1971, 6, 1-23.	1.0	256
43	Ongoing Spontaneous Activity Controls Access to Consciousness: A Neuronal Model for Inattentional Blindness. PLoS Biology, 2005, 3, e141.	2.6	250
44	Neuronal models of cognitive functions. Cognition, 1989, 33, 63-109.	1.1	247
45	Allosteric Modulation as a Unifying Mechanism for Receptor Function and Regulation. Cell, 2016, 166, 1084-1102.	13.5	246
46	Working memory, response selection, and effortful processing in rats with medial prefrontal lesions Behavioral Neuroscience, 1994, 108, 883-891.	0.6	237
47	Nicotine Upregulates Its Own Receptors through Enhanced Intracellular Maturation. Neuron, 2005, 46, 595-607.	3.8	237
48	Role of Ca ²⁺ lons in Nicotinic Facilitation of GABA Release in Mouse Thalamus. Journal of Neuroscience, 1997, 17, 576-585.	1.7	235
49	Conformational selection or induced fit? 50 years of debate resolved. F1000 Biology Reports, 2011, 3, 19.	4.0	226
50	Presence of a lattice structure in membrane fragments rich in nicotinic receptor protein from the electric organ of Torpedo marmorata. FEBS Letters, 1973, 33, 109-113.	1.3	203
51	Structure and Pharmacology of Pentameric Receptor Channels: From Bacteria to Brain. Structure, 2012, 20, 941-956.	1.6	202
52	Neurotransmitter-gated ion channels as unconventional allosteric proteins. Current Opinion in Structural Biology, 1994, 4, 554-565.	2.6	200
53	The Nicotinic Acetylcholine Receptor: The Founding Father of the Pentameric Ligand-gated Ion Channel Superfamily. Journal of Biological Chemistry, 2012, 287, 40207-40215.	1.6	199
54	The Emergence of Human Consciousness: From Fetal to Neonatal Life. Pediatric Research, 2009, 65, 255-260.	1.1	197

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55	A nicotinic hypothesis for Covid-19 with preventive and therapeutic implications. , 2020, 343, 33-39.		193
56	Postsynaptic Effects of Crotoxin and of Its Isolated Subunits. FEBS Journal, 1979, 99, 471-482.	0.2	192
57	Consequences of tenotomy on the evolution of multiineervation in developing rat soleus muscle. Brain Research, 1975, 99, 354-358.	1.1	189
58	International Union of Basic and Clinical Pharmacology. XC. Multisite Pharmacology: Recommendations for the Nomenclature of Receptor Allosterism and Allosteric Ligands. Pharmacological Reviews, 2014, 66, 918-947.	7.1	189
59	Denervation increases a neurite-promoting activity in extracts of skeletal muscle. Nature, 1983, 302, 609-611.	13.7	187
60	Targeting Transcription to the Neuromuscular Synapse. Neuron, 2001, 31, 15-22.	3.8	184
61	The β2 but not α7 subunit of the nicotinic acetylcholine receptor is required for nicotine-conditioned place preference in mice. Psychopharmacology, 2006, 184, 339-344.	1.5	184
62	Abnormal Functional Organization in the Dorsal Lateral Geniculate Nucleus of Mice Lacking the β2 Subunit of the Nicotinic Acetylcholine Receptor. Neuron, 2003, 40, 1161-1172.	3.8	181
63	Progress in the purification of the cholinergic receptor protein from Electrophorus electricus by affinity chromatography. FEBS Letters, 1972, 28, 96-100.	1.3	180
64	Potentiation of nicotinic receptor response by external calcium in rat central neurons. Neuron, 1992, 8, 937-945.	3.8	180
65	Normal Mode Analysis Suggests a Quaternary Twist Model for the Nicotinic Receptor Gating Mechanism. Biophysical Journal, 2005, 88, 3954-3965.	0.2	178
66	Crystal structures of a pentameric ligand-gated ion channel provide a mechanism for activation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 966-971.	3.3	175
67	The functional architecture of the acetylcholine nicotinic receptor explored by affinity labelling and site-directed mutagenesis. Quarterly Reviews of Biophysics, 1992, 25, 395-432.	2.4	172
68	Allosteric modulations of the nicotinic acetylcholine receptor. Trends in Neurosciences, 1993, 16, 181-186.	4.2	172
69	Fast Kinetic Studies on the Interaction of a Fluorescent Agonist with the Membrane-Bound Acetylcholine Receptor from Torpedo marmorata. FEBS Journal, 1979, 94, 255-279.	0.2	171
70	One-microsecond molecular dynamics simulation of channel gating in a nicotinic receptor homologue. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6275-6280.	3.3	159
71	Mutational Analysis of the Charge Selectivity Filter of the α7 Nicotinic Acetylcholine Receptor. Neuron, 1999, 22, 831-843.	3.8	158
72	Nicotinic receptors in wonderland. Trends in Biochemical Sciences, 2001, 26, 459-463.	3.7	158

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73	Executive and social behaviors under nicotinic receptor regulation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9596-9601.	3.3	157
74	Purification fromTorpedo marmorataelectric tissue of membrane fragments particularly rich in cholinergic receptor protein. FEBS Letters, 1972, 26, 43-47.	1.3	154
75	A Simple Model of Prefrontal Cortex Function in Delayed-Response Tasks. Journal of Cognitive Neuroscience, 1989, 1, 244-261.	1.1	152
76	Functional significance of aromatic amino acids from three peptide loops of the α7 neuronal nicotinic receptor site investigated by site-directed mutagenesis. FEBS Letters, 1991, 294, 198-202.	1.3	147
77	Allosteric Interactions in Aspartate Transcarbamylase. III. Interpretation of Experimental Data in Terms of the Model of Monod, Wyman, and Changeux. Biochemistry, 1968, 7, 553-560.	1.2	146
78	Distinct contributions of nicotinic acetylcholine receptor subunit α4 and subunit α6 to the reinforcing effects of nicotine. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7577-7582.	3.3	146
79	Nicotinic agonists stimulate acetylcholine release from mouse interpeduncular nucleus: a function mediated by a different nAChR than dopamine release from striatum. Journal of Neurochemistry, 2008, 76, 258-268.	2.1	143
80	Nicotine reverses hypofrontality in animal models of addiction and schizophrenia. Nature Medicine, 2017, 23, 347-354.	15.2	142
81	Localization of nAChR subunit mRNAs in the brain of Macaca mulatta. European Journal of Neuroscience, 2000, 12, 3664-3674.	1.2	139
82	The TiPS lecture the nicotinic acetylcholine receptor: an allosteric protein prototype of ligand-gated ion channels. Trends in Pharmacological Sciences, 1990, 11, 485-492.	4.0	137
83	50 years of allosteric interactions: the twists and turns of the models. Nature Reviews Molecular Cell Biology, 2013, 14, 819-829.	16.1	137
84	Identification of a New Component of the Agonist Binding Site of the Nicotinic α7 Homooligomeric Receptor. Journal of Biological Chemistry, 1995, 270, 11749-11752.	1.6	133
85	Membrane excitability and dissipative instabilities. Journal of Membrane Biology, 1970, 2, 351-374.	1.0	132
86	Activity-dependent regulation of gene expression in muscle and neuronal cells. Molecular Neurobiology, 1989, 3, 1-53.	1.9	132
87	In vitro phosphorylation of the acetylcholine receptor. Nature, 1977, 267, 540-542.	13.7	130
88	From The Cover: Perinatal exposure to nicotine causes deficits associated with a loss of nicotinic receptor function. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3817-3821.	3.3	129
89	A gating mechanism of pentameric ligand-gated ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3987-96.	3.3	129
90	Anatomical, physiological and biochemical studies on the cerebellum from mutant mice. III. Protein differences associated with the weaver, staggerer and nervous mutations. Brain Research, 1976, 103, 291-312.	1.1	125

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91	Rapsyn Escorts the Nicotinic Acetylcholine Receptor Along the Exocytic Pathway via Association with Lipid Rafts. Journal of Neuroscience, 2002, 22, 8891-8901.	1.7	125
92	A kinetic mechanism for nicotinic acetylcholine receptors based on multiple allosteric transitions. Biological Cybernetics, 1996, 75, 361-379.	0.6	124
93	Regulation of muscle acetylcoline receptor synthesis in vitro by cyclic nucleotide derivatives. Nature, 1979, 278, 749-752.	13.7	123
94	Multiple innervation of purkinje cells by climbing fibers in the cerebellum of the adult staggerer mutant mouse. Journal of Neurobiology, 1980, 11, 41-50.	3.7	123
95	Nicotine and serotonin in immune regulation and inflammatory processes: a perspective. Journal of Leukocyte Biology, 2007, 81, 599-606.	1.5	123
96	Experimentally based model of a complex between a snake toxin and the Â7 nicotinic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3216-3221.	3.3	121
97	Transmembrane Orientation of Proteins Present in Acetylcholine Receptor-Rich Membranes from Torpedo marmorata Studied by Selective Proteolysis. FEBS Journal, 1980, 106, 381-393.	0.2	119
98	Molecular Determinants by Which a Long Chain Toxin from Snake Venom Interacts with the Neuronal α7-Nicotinic Acetylcholine Receptor. Journal of Biological Chemistry, 2000, 275, 29594-29601.	1.6	119
99	Introducing the Human Brain Project. Procedia Computer Science, 2011, 7, 39-42.	1.2	118
100	Conditions for the selective labelling of the 66 000 dalton chain of the acetylcholine receptor by the covalent non-competitive blocker 5-azido-[3 H]trimethisoquin. FEBS Letters, 1980, 116, 30-36.	1.3	114
101	Immunological characterisation of the cholinergic receptor protein from Electrophorus electricus. FEBS Letters, 1973, 35, 124-128.	1.3	113
102	The nicotinic acetylcholine receptor and its prokaryotic homologues: Structure, conformational transitions & amp; allosteric modulation. Neuropharmacology, 2015, 96, 137-149.	2.0	113
103	Studies on the electrogenic action of acetylcholine with Torpedo marmorata electric organ. Journal of Molecular Biology, 1976, 106, 497-516.	2.0	112
104	Altered Map of Visual Space in the Superior Colliculus of Mice Lacking Early Retinal Waves. Journal of Neuroscience, 2005, 25, 6921-6928.	1.7	110
105	Â2-Containing Nicotinic Receptors Contribute to the Organization of Sleep and Regulate Putative Micro-Arousals in Mice. Journal of Neuroscience, 2004, 24, 5711-5718.	1.7	109
106	Interaction of the Acetylcholine (Nicotinic) Receptor Protein from Torpedo marmorata Electric Organ with Monolayers of Pure Lipids. FEBS Journal, 1978, 85, 27-42.	0.2	106
107	Molecular tuning of fast gating in pentameric ligand-gated ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18207-18212.	3.3	106
108	Allosteric Receptors: From Electric Organ to Cognition. Annual Review of Pharmacology and Toxicology, 2010, 50, 1-38.	4.2	106

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109	Altered neuroadaptation in opiate dependence and neurogenic inflammatory nociception in αCGRP-deficient mice. Nature Neuroscience, 2001, 4, 357-358.	7.1	105
110	Consequences of blocking the nerve with a local anaesthetic on the evolution of multiinnervation at the regenerating neuromuscular junction of the rat. Brain Research, 1978, 149, 89-96.	1.1	104
111	A neurocomputational hypothesis for nicotine addiction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1106-1111.	3.3	104
112	Nicotinic receptors, allosteric proteins and medicine. Trends in Molecular Medicine, 2008, 14, 93-102.	3.5	104
113	Ultrastructural Localization of the α4-Subunit of the Neuronal Acetylcholine Nicotinic Receptor in the Rat Substantia Nigra. Journal of Neuroscience, 1999, 19, 6475-6487.	1.7	103
114	Allosteric mechanisms in normal and pathological nicotinic acetylcholine receptors. Current Opinion in Neurobiology, 2001, 11, 369-377.	2.0	103
115	Nicotine activates immature "silent" connections in the developing hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2059-2064.	3.3	103
116	Biochemical and Immunological Studies on the P ₄₀₀ Protein, a Protein Characteristic of the Purkinje Cell from Mouse and Rat Cerebellum. Developmental Neuroscience, 1979, 2, 254-275.	1.0	101
117	On Some Structural Analogies between Acetylcholinesterase and the Macromolecular Receptor of Acetylcholine. Journal of General Physiology, 1969, 54, 225-244.	0.9	100
118	The noncompetitive blocker [3 H]chlorpromazine labels segment M2 but not segment M 1 of the nicotinic acetylcholine receptor α-subunit. FEBS Letters, 1989, 253, 190-198.	1.3	100
119	Studies on the electrogenic action of acetylcholine with Torpedo marmorata electric organ. Journal of Molecular Biology, 1976, 106, 469-483.	2.0	99
120	Fast Kinetic Studies on the Allosteric Interactions between Acetylcholine Receptor and Local Anesthetic Binding Sites. FEBS Journal, 1979, 94, 281-296.	0.2	99
121	Nicotinic receptors regulate the survival of newborn neurons in the adult olfactory bulb. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9822-9826.	3.3	99
122	Improved Secondary Structure Predictions for a Nicotinic Receptor Subunit: Incorporation of Solvent Accessibility and Experimental Data into a Two-Dimensional Representation. Biophysical Journal, 1999, 76, 2329-2345.	0.2	98
123	Critical Elements Determining Diversity in Agonist Binding and Desensitization of Neuronal Nicotinic Acetylcholine Receptors. Journal of Neuroscience, 1998, 18, 648-657.	1.7	97
124	Tritium labelling of the \hat{I}_{\pm} -neurotoxin of Naja nigricollis. FEBS Letters, 1971, 17, 333-335.	1.3	95
125	Studies on the electrogenic action of acetylcholine with Torpedo marmorata electric organ. Journal of Molecular Biology, 1976, 106, 485-496.	2.0	95
126	Reward-dependent learning in neuronal networks for planning and decision making. Progress in Brain Research, 2000, 126, 217-229.	0.9	95

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127	Selective activation of central subtypes of the nicotinic acetylcholine receptor has opposite effects on neonatal excitotoxic brain injuries. FASEB Journal, 2002, 16, 423-425.	0.2	94
128	Interaction of a fluorescent agonist with the membrane-bound acetylcholine receptor from Torpedomarmorata in the millisecond time range: Resolution of an "intermediate―conformational transition and evidence for positive cooperative effects. Biochemical and Biophysical Research Communications, 1980, 97, 889-896.	1.0	93
129	The ligand gated ion channel database. Nucleic Acids Research, 1999, 27, 340-342.	6.5	93
130	Calcium mobilization elicited by two types of nicotinic acetylcholine receptors in mouse substantia nigra pars compacta. European Journal of Neuroscience, 2000, 12, 2475-2485.	1.2	93
131	Alterations of cortical pyramidal neurons in mice lacking high-affinity nicotinic receptors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11567-11572.	3.3	93
132	Prefrontal nicotinic receptors control novel social interaction between mice. FASEB Journal, 2011, 25, 2145-2155.	0.2	93
133	The nicotinic acetylcholine receptor: Molecular architecture of a ligand-regulated ion channel. Trends in Pharmacological Sciences, 1987, 8, 459-465.	4.0	92
134	Long-term effects of chronic nicotine exposure on brain nicotinic receptors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8155-8160.	3.3	92
135	Identification of an Element Crucial for the Sub-synaptic Expression of the Acetylcholine Receptor ε-Subunit Gene. Journal of Biological Chemistry, 1996, 271, 17433-17438.	1.6	91
136	Localization of [3H]nicotine, [3H]cytisine, [3H]epibatidine, and [125I]α-bungarotoxin binding sites in the brain ofMacaca mulatta. Journal of Comparative Neurology, 2003, 461, 49-60.	0.9	91
137	Implications of the quaternary twist allosteric model for the physiology and pathology of nicotinic acetylcholine receptors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16965-16970.	3.3	91
138	Compartmentalization of cold-stable and acetylated microtubules in the subsynaptic domain of chick skeletal muscle fibre. Nature, 1990, 344, 673-675.	13.7	88
139	Interconversion between Different States of Affinity for Acetylcholine of the Cholinergic Receptor Protein from Torpedo marmorata. FEBS Journal, 1975, 55, 505-515.	0.2	85
140	Phosphorylation in vitro of Membrane Fragments from Torpedo marmorata Electric Organ. Effect on Membrane Solubilization by Detergents. FEBS Journal, 1980, 105, 51-62.	0.2	85
141	Localization of the cholinergic receptor protein inElectrophoruselectroplax by high resolution autoradiography. FEBS Letters, 1972, 25, 127-133.	1.3	83
142	Stratification of the channel domain in neurotransmitter receptors. Current Opinion in Cell Biology, 1993, 5, 688-693.	2.6	83
143	Reconstitution of a functional acetylcholine regulator under defined conditions. FEBS Letters, 1979, 105, 181-187.	1.3	82
144	Â2 nicotinic acetylcholine receptor subunit modulates protective responses to stress: A receptor basis for sleep-disordered breathing after nicotine exposure. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13272-13277.	3.3	80

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145	Monoamine Oxidase Inhibitors Allow Locomotor and Rewarding Responses to Nicotine. Neuropsychopharmacology, 2006, 31, 1704-1713.	2.8	80
146	Influence of innervation of myogenic factors and acetylcholine receptor α-subunit mRNAs. NeuroReport, 1991, 2, 25-28.	0.6	79
147	Involvement of α6 nicotinic receptor subunit in nicotine-elicited locomotion, demonstrated by in vivo antisense oligonucleotide infusion. NeuroReport, 1999, 10, 2497-2501.	0.6	78
148	Control of neurulation by the nucleosome assembly protein-1–like 2. Nature Genetics, 2000, 25, 431-435.	9.4	78
149	Reinforcing effects of nicotine microinjections into the ventral tegmental area of mice: Dependence on cholinergic nicotinic and dopaminergic D1 receptors. Neuropharmacology, 2006, 50, 1030-1040.	2.0	78
150	A Study on the Motion Of Protenis in Excitable Membrane Fragment by Nanosecond Fluorescence Polarization Spectroscopy. FEBS Journal, 1971, 18, 332-341.	0.2	77
151	Chemical Signaling in the Brain. Scientific American, 1993, 269, 58-62.	1.0	77
152	Crosslinking of α-bungarotoxin to the acetylcholine receptor from Torpedo marmorata by ultraviolet light irradiation. FEBS Letters, 1982, 139, 225-229.	1.3	76
153	Nicotinic receptor: an allosteric protein specialized for intercellular communication. Seminars in Neuroscience, 1995, 7, 75-90.	2.3	76
154	Live imaging of neural structure and function by fibred fluorescence microscopy. EMBO Reports, 2006, 7, 1154-1161.	2.0	76
155	Reconstitution of a Functional Acetylcholine Receptor. Conservation of the Conformational and Allosteric Transitions and Recovery of the Permeability Response; Role of Lipids. FEBS Journal, 1980, 110, 35-55.	0.2	75
156	Specific phosphorylation of Torpedo 43K rapsyn by endogenous kinase(s) with thiamine triphosphate as the phosphate donor. FASEB Journal, 2000, 14, 543-554.	0.2	75
157	α7 Nicotinic Acetylcholine Receptor Regulates Airway Epithelium Differentiation by Controlling Basal Cell Proliferation. American Journal of Pathology, 2009, 175, 1868-1882.	1.9	75
158	Fast Kinetic Studies on the Interaction of Cholinergic Agonists with the Membrane-Bound Acetylcholine Receptor from Torpedo marmorata as Revealed by Quinacrine Fluorescence. FEBS Journal, 1977, 80, 225-242.	0.2	73
159	An Extracellular Protein Microdomain Controls Up-regulation of Neuronal Nicotinic Acetylcholine Receptors by Nicotine. Journal of Biological Chemistry, 2004, 279, 18767-18775.	1.6	73
160	Towards a cognitive neuroscience of self-awareness. Neuroscience and Biobehavioral Reviews, 2017, 83, 765-773.	2.9	73
161	Functional Nicotinic Acetylcholine Receptors Are Expressed in B Lymphocyte-Derived Cell Lines. Molecular Pharmacology, 2003, 64, 885-889.	1.0	72
162	Interplay of β2* nicotinic receptors and dopamine pathways in the control of spontaneous locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15991-15996.	3.3	71

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163	The concept of allosteric modulation: an overview. Drug Discovery Today: Technologies, 2013, 10, e223-e228.	4.0	69
164	Developmental Regulation of Acetylcholinesterase Transcripts in the Mouse Diaphragm: Alternative Splicing and Focalization. European Journal of Neuroscience, 1995, 7, 1803-1809.	1.2	68
165	Heterogeneity and Selective Targeting of Neuronal Nicotinic Acetylcholine Receptor (nAChR) Subtypes Expressed on Retinal Afferents of the Superior Colliculus and Lateral Geniculate Nucleus: Identification of a New Native nAChR Subtype α3β2(α5 or β3) Enriched in Retinocollicular Afferents. Molecular Pharmacology, 2005. 68. 1162-1171.	1.0	68
166	Art and Neuroscience. Leonardo, 1994, 27, 189.	0.2	67
167	50th anniversary of the word "allosteric― Protein Science, 2011, 20, 1119-1124.	3.1	67
168	Paradoxical allosteric effects of competitive inhibitors on neuronal α7 nicotinic receptor mutants. NeuroReport, 1997, 8, 3591-3596.	0.6	66
169	Pore conformations and gating mechanism of a Cys-loop receptor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15877-15882.	3.3	66
170	The natural axis of transmitter receptor distribution in the human cerebral cortex. Proceedings of the United States of America, 2021, 118, .	3.3	66
171	Allosteric transitions of Torpedo acetylcholine receptor in lipids, detergent and amphipols: molecular interactions vs. physical constraints. FEBS Letters, 2002, 528, 251-256.	1.3	65
172	In Vitro excitation of purified membrane fragments by cholinergic agonists. Journal of Membrane Biology, 1971, 6, 24-57.	1.0	63
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