

Jean-Pierre Changeux

List of Publications by Year in descending order

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353
papers

52,957
citations

2197

102
h-index

1680

220
g-index

366
all docs

366
docs citations

366
times ranked

27985
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nature of allosteric transitions: A plausible model. <i>Journal of Molecular Biology</i> , 1965, 12, 88-118.	2.0	8,467
2	Allosteric proteins and cellular control systems. <i>Journal of Molecular Biology</i> , 1963, 6, 306-329.	2.0	2,093
3	Experimental and Theoretical Approaches to Conscious Processing. <i>Neuron</i> , 2011, 70, 200-227.	3.8	1,768
4	Conscious, preconscious, and subliminal processing: a testable taxonomy. <i>Trends in Cognitive Sciences</i> , 2006, 10, 204-211.	4.0	1,649
5	Selective stabilisation of developing synapses as a mechanism for the specification of neuronal networks. <i>Nature</i> , 1976, 264, 705-712.	13.7	1,559
6	Acetylcholine receptors containing the $\alpha 2$ subunit are involved in the reinforcing properties of nicotine. <i>Nature</i> , 1998, 391, 173-177.	13.7	1,239
7	Nicotinic Receptors at the Amino Acid Level. <i>Annual Review of Pharmacology and Toxicology</i> , 2000, 40, 431-458.	4.2	757
8	A neuronal network model linking subjective reports and objective physiological data during conscious perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8520-8525.	3.3	735
9	Development of Elementary Numerical Abilities: A Neuronal Model. <i>Journal of Cognitive Neuroscience</i> , 1993, 5, 390-407.	1.1	720
10	Allosteric Mechanisms of Signal Transduction. <i>Science</i> , 2005, 308, 1424-1428.	6.0	663
11	X-ray structure of a pentameric ligand-gated ion channel in an apparently open conformation. <i>Nature</i> , 2009, 457, 111-114.	13.7	644
12	Molecular and Physiological Diversity of Nicotinic Acetylcholine Receptors in the Midbrain Dopaminergic Nuclei. <i>Journal of Neuroscience</i> , 2001, 21, 1452-1463.	1.7	626
13	Abnormal avoidance learning in mice lacking functional high-affinity nicotine receptor in the brain. <i>Nature</i> , 1995, 374, 65-67.	13.7	612
14	Nicotinic receptors: allosteric transitions and therapeutic targets in the nervous system. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 733-750.	21.5	591
15	Reduced antinociception in mice lacking neuronal nicotinic receptor subunits. <i>Nature</i> , 1999, 398, 805-810.	13.7	514
16	Conscious Processing and the Global Neuronal Workspace Hypothesis. <i>Neuron</i> , 2020, 105, 776-798.	3.8	487
17	A Neuronal Model of Predictive Coding Accounting for the Mismatch Negativity. <i>Journal of Neuroscience</i> , 2012, 32, 3665-3678.	1.7	476
18	Subunit Composition of Functional Nicotinic Receptors in Dopaminergic Neurons Investigated with Knock-Out Mice. <i>Journal of Neuroscience</i> , 2003, 23, 7820-7829.	1.7	473

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19	Allosteric Receptors after 30 Years. <i>Neuron</i> , 1998, 21, 959-980.	3.8	424
20	X-ray structures of general anaesthetics bound to a pentameric ligand-gated ion channel. <i>Nature</i> , 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. <i>Nature</i> , 1992, 359, 500-505.	13.7	406
22	Chimaeric nicotinic-serotonergic receptor combines distinct ligand binding and channel specificities. <i>Nature</i> , 1993, 366, 479-483.	13.7	399
23	Nicotine addiction and nicotinic receptors: lessons from genetically modified mice. <i>Nature Reviews Neuroscience</i> , 2010, 11, 389-401.	4.9	381
24	Molecular evolution of the nicotinic acetylcholine receptor: An example of multigene family in excitable cells. <i>Journal of Molecular Evolution</i> , 1995, 40, 155-172.	0.8	378
25	Identification of Four Classes of Brain Nicotinic Receptors Using $\hat{1}^{22}$ Mutant Mice. <i>Journal of Neuroscience</i> , 1998, 18, 4461-4472.	1.7	372
26	The diversity of subunit composition in nAChRs: Evolutionary origins, physiologic and pharmacologic consequences. <i>Journal of Neurobiology</i> , 2002, 53, 447-456.	3.7	371
27	Calcium influx through nicotinic receptor in rat central neurons: Its relevance to cellular regulation. <i>Neuron</i> , 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 <i>Torpedo marmorata</i> Electric Organ. <i>FEBS Journal</i> , 1977, 80, 215-224.	0.2	368
29	Neuronal Nicotinic Receptor $\alpha 6$ Subunit mRNA is Selectively Concentrated in Catecholaminergic Nuclei of the Rat Brain. <i>European Journal of Neuroscience</i> , 1996, 8, 2428-2439.	1.2	358
30	On the nature of allosteric transitions: Implications of non-exclusive ligand binding. <i>Journal of Molecular Biology</i> , 1966, 21, 265-274.	2.0	334
31	Distribution and Pharmacology of $\hat{1}^{\pm 6}$ -Containing Nicotinic Acetylcholine Receptors Analyzed with Mutant Mice. <i>Journal of Neuroscience</i> , 2002, 22, 1208-1217.	1.7	330
32	Allostery and the Monod-Wyman-Changeux Model After 50 Years. <i>Annual Review of Biophysics</i> , 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. <i>Neuroscience Letters</i> , 1986, 71, 59-65.	1.0	319
34	Ivermectin: A Positive Allosteric Effector of the $\hat{1}^{\pm 7}$ Neuronal Nicotinic Acetylcholine Receptor. <i>Molecular Pharmacology</i> , 1998, 53, 283-294.	1.0	294
35	Nicotinic receptor function: new perspectives from knockout mice. <i>Trends in Pharmacological Sciences</i> , 2000, 21, 211-217.	4.0	292
36	A prokaryotic proton-gated ion channel from the nicotinic acetylcholine receptor family. <i>Nature</i> , 2007, 445, 116-119.	13.7	288

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37	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , 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. <i>Brain Research Reviews</i> , 1998, 26, 198-216.	9.1	280
39	Transsynaptic degeneration "en cascade"™ in the cerebellar cortex of staggerer mutant rice. <i>Brain Research</i> , 1974, 67, 519-526.	1.1	274
40	Models of the extracellular domain of the nicotinic receptors and of agonist- and Ca ²⁺ -binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3210-3215.	3.3	263
41	Hierarchical Control of Dopamine Neuron-Firing Patterns by Nicotinic Receptors. <i>Neuron</i> , 2006, 50, 911-921.	3.8	263
42	In Vitro excitation of purified membrane fragments by cholinergic agonists. <i>Journal of Membrane Biology</i> , 1971, 6, 1-23.	1.0	256
43	Ongoing Spontaneous Activity Controls Access to Consciousness: A Neuronal Model for Inattentive Blindness. <i>PLoS Biology</i> , 2005, 3, e141.	2.6	250
44	Neuronal models of cognitive functions. <i>Cognition</i> , 1989, 33, 63-109.	1.1	247
45	Allosteric Modulation as a Unifying Mechanism for Receptor Function and Regulation. <i>Cell</i> , 2016, 166, 1084-1102.	13.5	246
46	Working memory, response selection, and effortful processing in rats with medial prefrontal lesions.. <i>Behavioral Neuroscience</i> , 1994, 108, 883-891.	0.6	237
47	Nicotine Upregulates Its Own Receptors through Enhanced Intracellular Maturation. <i>Neuron</i> , 2005, 46, 595-607.	3.8	237
48	Role of Ca ²⁺ ions in Nicotinic Facilitation of GABA Release in Mouse Thalamus. <i>Journal of Neuroscience</i> , 1997, 17, 576-585.	1.7	235
49	Conformational selection or induced fit? 50 years of debate resolved. <i>F1000 Biology Reports</i> , 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 <i>Torpedo marmorata</i> . <i>FEBS Letters</i> , 1973, 33, 109-113.	1.3	203
51	Structure and Pharmacology of Pentameric Receptor Channels: From Bacteria to Brain. <i>Structure</i> , 2012, 20, 941-956.	1.6	202
52	Neurotransmitter-gated ion channels as unconventional allosteric proteins. <i>Current Opinion in Structural Biology</i> , 1994, 4, 554-565.	2.6	200
53	The Nicotinic Acetylcholine Receptor: The Founding Father of the Pentameric Ligand-gated Ion Channel Superfamily. <i>Journal of Biological Chemistry</i> , 2012, 287, 40207-40215.	1.6	199
54	The Emergence of Human Consciousness: From Fetal to Neonatal Life. <i>Pediatric Research</i> , 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 multiinnervation 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 $\alpha 2$ but not $\alpha 7$ 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 $\alpha 2$ 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 <i>Electrophorus electricus</i> by affinity chromatography. FEBS Letters, 1972, 28, 96-100.	1.3	180
64	Potentialiation 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 <i>Torpedo marmorata</i> . 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 $\alpha 7$ 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 from <i>Torpedo marmorata</i> electric 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 $\alpha 7$ 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 $\alpha 4$ and subunit $\alpha 6$ 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 <i>Macaca mulatta</i> . 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 $\alpha 7$ 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. <i>Journal of Neuroscience</i> , 2002, 22, 8891-8901.	1.7	125
92	A kinetic mechanism for nicotinic acetylcholine receptors based on multiple allosteric transitions. <i>Biological Cybernetics</i> , 1996, 75, 361-379.	0.6	124
93	Regulation of muscle acetylcholine receptor synthesis in vitro by cyclic nucleotide derivatives. <i>Nature</i> , 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. <i>Journal of Neurobiology</i> , 1980, 11, 41-50.	3.7	123
95	Nicotine and serotonin in immune regulation and inflammatory processes: a perspective. <i>Journal of Leukocyte Biology</i> , 2007, 81, 599-606.	1.5	123
96	Experimentally based model of a complex between a snake toxin and the $\hat{A}7$ nicotinic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3216-3221.	3.3	121
97	Transmembrane Orientation of Proteins Present in Acetylcholine Receptor-Rich Membranes from <i>Torpedo marmorata</i> Studied by Selective Proteolysis. <i>FEBS Journal</i> , 1980, 106, 381-393.	0.2	119
98	Molecular Determinants by Which a Long Chain Toxin from Snake Venom Interacts with the Neuronal $\hat{A}7$ -Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 29594-29601.	1.6	119
99	Introducing the Human Brain Project. <i>Procedia Computer Science</i> , 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. <i>FEBS Letters</i> , 1980, 116, 30-36.	1.3	114
101	Immunological characterisation of the cholinergic receptor protein from <i>Electrophorus electricus</i> . <i>FEBS Letters</i> , 1973, 35, 124-128.	1.3	113
102	The nicotinic acetylcholine receptor and its prokaryotic homologues: Structure, conformational transitions & allosteric modulation. <i>Neuropharmacology</i> , 2015, 96, 137-149.	2.0	113
103	Studies on the electrogenic action of acetylcholine with <i>Torpedo marmorata</i> electric organ. <i>Journal of Molecular Biology</i> , 1976, 106, 497-516.	2.0	112
104	Altered Map of Visual Space in the Superior Colliculus of Mice Lacking Early Retinal Waves. <i>Journal of Neuroscience</i> , 2005, 25, 6921-6928.	1.7	110
105	$\hat{A}2$ -Containing Nicotinic Receptors Contribute to the Organization of Sleep and Regulate Putative Micro-Arousals in Mice. <i>Journal of Neuroscience</i> , 2004, 24, 5711-5718.	1.7	109
106	Interaction of the Acetylcholine (Nicotinic) Receptor Protein from <i>Torpedo marmorata</i> Electric Organ with Monolayers of Pure Lipids. <i>FEBS Journal</i> , 1978, 85, 27-42.	0.2	106
107	Molecular tuning of fast gating in pentameric ligand-gated ion channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18207-18212.	3.3	106
108	Allosteric Receptors: From Electric Organ to Cognition. <i>Annual Review of Pharmacology and Toxicology</i> , 2010, 50, 1-38.	4.2	106

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109	Altered neuroadaptation in opiate dependence and neurogenic inflammatory nociception in $\hat{1}\pm$ CGRP-deficient mice. <i>Nature Neuroscience</i> , 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. <i>Brain Research</i> , 1978, 149, 89-96.	1.1	104
111	A neurocomputational hypothesis for nicotine addiction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1106-1111.	3.3	104
112	Nicotinic receptors, allosteric proteins and medicine. <i>Trends in Molecular Medicine</i> , 2008, 14, 93-102.	3.5	104
113	Ultrastructural Localization of the $\hat{1}\pm$ 4-Subunit of the Neuronal Acetylcholine Nicotinic Receptor in the Rat Substantia Nigra. <i>Journal of Neuroscience</i> , 1999, 19, 6475-6487.	1.7	103
114	Allosteric mechanisms in normal and pathological nicotinic acetylcholine receptors. <i>Current Opinion in Neurobiology</i> , 2001, 11, 369-377.	2.0	103
115	Nicotine activates immature "silent" connections in the developing hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2059-2064.	3.3	103
116	Biochemical and Immunological Studies on the P₄₀₀ Protein, a Protein Characteristic of the Purkinje Cell from Mouse and Rat Cerebellum. <i>Developmental Neuroscience</i> , 1979, 2, 254-275.	1.0	101
117	On Some Structural Analogies between Acetylcholinesterase and the Macromolecular Receptor of Acetylcholine. <i>Journal of General Physiology</i> , 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 $\hat{1}\pm$ -subunit. <i>FEBS Letters</i> , 1989, 253, 190-198.	1.3	100
119	Studies on the electrogenic action of acetylcholine with <i>Torpedo marmorata</i> electric organ. <i>Journal of Molecular Biology</i> , 1976, 106, 469-483.	2.0	99
120	Fast Kinetic Studies on the Allosteric Interactions between Acetylcholine Receptor and Local Anesthetic Binding Sites. <i>FEBS Journal</i> , 1979, 94, 281-296.	0.2	99
121	Nicotinic receptors regulate the survival of newborn neurons in the adult olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Biophysical Journal</i> , 1999, 76, 2329-2345.	0.2	98
123	Critical Elements Determining Diversity in Agonist Binding and Desensitization of Neuronal Nicotinic Acetylcholine Receptors. <i>Journal of Neuroscience</i> , 1998, 18, 648-657.	1.7	97
124	Tritium labelling of the $\hat{1}\pm$ -neurotoxin of <i>Naja nigricollis</i> . <i>FEBS Letters</i> , 1971, 17, 333-335.	1.3	95
125	Studies on the electrogenic action of acetylcholine with <i>Torpedo marmorata</i> electric organ. <i>Journal of Molecular Biology</i> , 1976, 106, 485-496.	2.0	95
126	Reward-dependent learning in neuronal networks for planning and decision making. <i>Progress in Brain Research</i> , 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. <i>FASEB Journal</i> , 2002, 16, 423-425.	0.2	94
128	Interaction of a fluorescent agonist with the membrane-bound acetylcholine receptor from <i>Torpedomarmorata</i> in the millisecond time range: Resolution of an "intermediate" conformational transition and evidence for positive cooperative effects. <i>Biochemical and Biophysical Research Communications</i> , 1980, 97, 889-896.	1.0	93
129	The ligand gated ion channel database. <i>Nucleic Acids Research</i> , 1999, 27, 340-342.	6.5	93
130	Calcium mobilization elicited by two types of nicotinic acetylcholine receptors in mouse substantia nigra pars compacta. <i>European Journal of Neuroscience</i> , 2000, 12, 2475-2485.	1.2	93
131	Alterations of cortical pyramidal neurons in mice lacking high-affinity nicotinic receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11567-11572.	3.3	93
132	Prefrontal nicotinic receptors control novel social interaction between mice. <i>FASEB Journal</i> , 2011, 25, 2145-2155.	0.2	93
133	The nicotinic acetylcholine receptor: Molecular architecture of a ligand-regulated ion channel. <i>Trends in Pharmacological Sciences</i> , 1987, 8, 459-465.	4.0	92
134	Long-term effects of chronic nicotine exposure on brain nicotinic receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8155-8160.	3.3	92
135	Identification of an Element Crucial for the Sub-synaptic Expression of the Acetylcholine Receptor β -Subunit Gene. <i>Journal of Biological Chemistry</i> , 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 of <i>Macaca mulatta</i> . <i>Journal of Comparative Neurology</i> , 2003, 461, 49-60.	0.9	91
137	Implications of the quaternary twist allosteric model for the physiology and pathology of nicotinic acetylcholine receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16965-16970.	3.3	91
138	Compartmentalization of cold-stable and acetylated microtubules in the subsynaptic domain of chick skeletal muscle fibre. <i>Nature</i> , 1990, 344, 673-675.	13.7	88
139	Interconversion between Different States of Affinity for Acetylcholine of the Cholinergic Receptor Protein from <i>Torpedo marmorata</i> . <i>FEBS Journal</i> , 1975, 55, 505-515.	0.2	85
140	Phosphorylation in vitro of Membrane Fragments from <i>Torpedo marmorata</i> Electric Organ. Effect on Membrane Solubilization by Detergents. <i>FEBS Journal</i> , 1980, 105, 51-62.	0.2	85
141	Localization of the cholinergic receptor protein in <i>Electrophorus electrophorus</i> by high resolution autoradiography. <i>FEBS Letters</i> , 1972, 25, 127-133.	1.3	83
142	Stratification of the channel domain in neurotransmitter receptors. <i>Current Opinion in Cell Biology</i> , 1993, 5, 688-693.	2.6	83
143	Reconstitution of a functional acetylcholine regulator under defined conditions. <i>FEBS Letters</i> , 1979, 105, 181-187.	1.3	82
144	α 2 nicotinic acetylcholine receptor subunit modulates protective responses to stress: A receptor basis for sleep-disordered breathing after nicotine exposure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 13272-13277.	3.3	80

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145	Monoamine Oxidase Inhibitors Allow Locomotor and Rewarding Responses to Nicotine. <i>Neuropsychopharmacology</i> , 2006, 31, 1704-1713.	2.8	80
146	Influence of innervation of myogenic factors and acetylcholine receptor α -subunit mRNAs. <i>NeuroReport</i> , 1991, 2, 25-28.	0.6	79
147	Involvement of α 6 nicotinic receptor subunit in nicotine-elicited locomotion, demonstrated by in vivo antisense oligonucleotide infusion. <i>NeuroReport</i> , 1999, 10, 2497-2501.	0.6	78
148	Control of neurulation by the nucleosome assembly protein-1-like 2. <i>Nature Genetics</i> , 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. <i>Neuropharmacology</i> , 2006, 50, 1030-1040.	2.0	78
150	A Study on the Motion Of Protens in Excitable Membrane Fragment by Nanosecond Fluorescence Polarization Spectroscopy. <i>FEBS Journal</i> , 1971, 18, 332-341.	0.2	77
151	Chemical Signaling in the Brain. <i>Scientific American</i> , 1993, 269, 58-62.	1.0	77
152	Crosslinking of α -bungarotoxin to the acetylcholine receptor from <i>Torpedo marmorata</i> by ultraviolet light irradiation. <i>FEBS Letters</i> , 1982, 139, 225-229.	1.3	76
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