R Miledi

List of Publications by Year
in descending order

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363 papers	29,332 citations	4370 86 h-index	6113 159 g-index
364 all docs	364 docs citations	364 times ranked	8128 citing authors

#	Article	IF	Citations
1	The role of calcium in neuromuscular facilitation. Journal of Physiology, 1968, 195, 481-492.	1.3	1,184
2	The statistical nature of the acetylcholine potential and its molecular components. Journal of Physiology, 1972, 224, 665-699.	1.3	905
3	A study of synaptic transmission in the absence of nerve impulses. Journal of Physiology, 1967, 192, 407-436.	1.3	834
4	Tetrodotoxinâ€resistant electric activity in presynaptic terminals. Journal of Physiology, 1969, 203, 459-487.	1.3	584
5	The binding of acetylcholine to receptors and its removal from the synaptic cleft. Journal of Physiology, 1973, 231, 549-574.	1.3	538
6	The timing of calcium action during neuromuscular transmission. Journal of Physiology, 1967, 189, 535-544.	1.3	507
7	The effect of calcium on acetylcholine release from motor nerve terminals. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1965, 161, 496-503.	1.8	496
8	The measurement of synaptic delay, and the time course of acetylcholine release at the neuromuscular junction. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1965, 161, 483-495.	1.8	484
9	Cholinergic and catecholaminergic receptors in the Xenopus oocyte membrane. Journal of Physiology, 1982, 328, 143-170.	1.3	453
10	Acetylcholine Receptors in Muscle Fibres. Nature, 1971, 233, 599-603.	13.7	448
11	Further study of the role of calcium in synaptic transmission. Journal of Physiology, 1970, 207, 789-801.	1.3	441
12	Physiological and structural changes at the amphibian myoneural junction, in the course of nerve degeneration. Journal of Physiology, 1960, 150, 145-168.	1.3	408
13	A calcium-dependent transient outward current in Xenopus laevis oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1982, 215, 491-497.	1.8	407
14	Biological Sciences: Isolation of the Cholinergic Receptor Protein of Torpedo Electric Tissue. Nature, 1971, 229, 554-557.	13.7	403
15	A study of foetal and newâ€born rat muscle fibres. Journal of Physiology, 1962, 162, 393-408.	1.3	394
16	On the degeneration of rat neuromuscular junctions after nerve section. Journal of Physiology, 1970, 207, 507-528.	1.3	388
17	Transmitter leakage from motor nerve endings. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1977, 196, 59-72.	1.8	370
18	Chloride current induced by injection of calcium into Xenopus oocytes.. Journal of Physiology, 1984, 357, 173-183.	1.3	359

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19	Transmitter release induced by injection of calcium ions into nerve terminals. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1973, 183, 421-425.	1.8	344
20	The effect of temperature on the synaptic delay at the neuromuscular junction.. Journal of Physiology, 1965, 181, 656-670.	1.3	335
21	Glutamate receptor-mediated toxicity in optic nerve oligodendrocytes. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8830-8835.	3.3	329
22	Lysophosphatidates bound to serum albumin activate membrane currents in Xenopus oocytes and neurite retraction in PC12 pheochromocytoma cells.. Journal of Biological Chemistry, 1992, 267, 21360-21367.	1.6	319
23	Propagation of electric activity in motor nerve terminals. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1965, 161, 453-482.	1.8	317
24	A study of spontaneous miniature potentials in spinal motoneurones. Journal of Physiology, 1963, 168, 389-422.	1.3	315
25	Spontaneous and evoked activity of motor nerve endings in calcium Ringer. Journal of Physiology, 1969, 203, 689-706.	1.3	315
26	The release of acetylcholine from nerve endings by graded electric pulses. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1967, 167, 23-38.	1.8	284
27	Anomalous levels of Cl- transporters in the hippocampal subiculum from temporal lobe epilepsy patients make GABA excitatory. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8465-8468.	3.3	262
28	Lysophosphatidates bound to serum albumin activate membrane currents in Xenopus oocytes and neurite retraction in PC12 pheochromocytoma cells. Journal of Biological Chemistry, 1992, 267, 21360-7.	1.6	259
29	The acetylcholine sensitivity of frog muscle fibres after complete or partial devervation. Journal of Physiology, 1960, 151, 1-23.	1.3	230
30	Presynaptic failure of neuromuscular propagation in rats. Journal of Physiology, 1959, 149, 1-22.	1.3	222
31	Membrane Noise produced by Acetylcholine. Nature, 1970, 226, 962-963.	13.7	216
32	Loss of functional GABA _A receptors in the Alzheimer diseased brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10071-10076.	3.3	212
33	Properties of regenerating neuromuscular synapses in the frog. Journal of Physiology, 1960, 154, 190-205.	1.3	211
34	Tetanic and postâ€tetanic rise in frequency of miniature endâ€plate potentials in lowâ€calcium solutions. Journal of Physiology, 1971, 212, 245-257.	1.3	204
35	Effect of lanthanum ions on function and structure of frog neuromuscular junctions. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1971, 179, 247-260.	1.8	200
36	On the release of transmitter at normal, myasthenia gravis and myasthenic syndrome affected human endâ€plates.. Journal of Physiology, 1980, 299, 621-638.	1.3	200

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37	Strontium as a Substitute for Calcium in the Process of Transmitter Release at the Neuromuscular Junction. Nature, 1966, 212, 1233-1234.	13.7	199
38	Isolation and Characterization of Presynaptically Acting Neurotoxins from the Venom of Bungarus Snakes. FEBS Journal, 1977, 80, 1-12.	0.2	199
39	The effect of type D botulinum toxin on frog neuromuscular junctions. Journal of Physiology, 1971, 217, 497-515.	1.3	198
40	Messenger RNA from human brain induces drug- and voltage-operated channels in Xenopus oocytes. Nature, 1984, 308, 421-424.	13.7	197
41	The action of calcium on neuronal synapses in the squid. Journal of Physiology, 1966, 184, 473-498.	1.3	195
42	Tetrodotoxin and neuromuscular transmission. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1967, 167, 8-22.	1.8	187
43	Acetylcholine receptors in the oocyte membrane. Nature, 1977, 270, 739-741.	13.7	187
44	Translation of exogenous messenger RNA coding for nicotinic acetylcholine receptors produces functional receptors in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1982, 215, 241-246.	1.8	187
45	Expression of mammalian gamma-aminobutyric acid receptors with distinct pharmacology in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4318-4322.	3.3	178
46	Strontium and quantal release of transmitter at the neuromuscular junction. Journal of Physiology, 1969, 200, 267-283.	1.3	171
47	The characteristics of â€˜endâ€plate noiseâ€™ produced by different depolarizing drugs. Journal of Physiology, 1973, 230, 707-717.	1.3	163
48	Blockage of 5HT2C serotonin receptors by fluoxetine (Prozac). Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2036-2040.	3.3	163
49	Electrophysiology and electron-microscopy of rat neuromuscular junctions after nerve degeneration. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1968, 169, 289-306.	1.8	158
50	Estimates of quantal content during 'chemical potentiation' of transmitter release. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1979, 205, 369-378.	1.8	154
51	Design and in vitro pharmacology of a selective gamma-aminobutyric acidC receptor antagonist. Molecular Pharmacology, 1996, 50, 1024-30.	1.0	148
52	Ionic Requirements of Synaptic Transmitter Release. Nature, 1967, 215, 651-651.	13.7	144
53	Lysophosphatidic acid possesses dual action in cell proliferation.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 1908-1912.	3.3	144
54	Effects of defolliculation on membrane current responses of Xenopus oocytes.. Journal of Physiology, 1989, 416, 601-621.	1.3	139

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55	Characterization of bicuculline/baclofen-insensitive (rho-like) gamma-aminobutyric acid receptors expressed in Xenopus oocytes. II. Pharmacology of gamma-aminobutyric acidA and gamma-aminobutyric acidB receptor agonists and antagonists. Molecular Pharmacology, 1993, 43, 609-25.	1.0	138
56	Blockage of muscle and neuronal nicotinic acetylcholine receptors by fluoxetine (Prozac). Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2041-2044.	3.3	136
57	Spontaneous synaptic potentials and quantal release of transmitter in the stellate ganglion of the squid. Journal of Physiology, 1967, 192, 379-406.	1.3	132
58	Junctional and extra-junctional acetylcholine receptors in skeletal muscle fibres. Journal of Physiology, 1960, 151, 24-30.	1.3	130
59	Heterogeneity of glycine receptors and their messenger RNAs in rat brain and spinal cord. Science, 1988, 242, 270-273.	6.0	129
60	Failure of neuromuscular propagation in rats. Journal of Physiology, 1958, 140, 440-61.	1.3	123
61	Some effects produced by adrenaline upon neuromuscular propagation in rats. Journal of Physiology, 1958, 141, 291-304.	1.3	122
62	A re-examination of curare action at the motor endplate. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1978, 203, 119-133.	1.8	122
63	Single glutamateâ€activated channels recorded from locust muscle fibres with perfused patchâ€clamp electrodes. Journal of Physiology, 1981, 321, 195-210.	1.3	119
64	Lanthanum Ions abolish the â€œCalcium Responseâ€•of Nerve Terminals. Nature, 1971, 229, 410-411.	13.7	117
65	Measurement of calcium transients in frog muscle by the use of arsenazo III. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1977, 198, 201-210.	1.8	117
66	ACETYLCHOLINE RECEPTORS AND END-PLATE ELECTROPHYSIOLOGY IN MYASTHENIA GRAVIS. Brain, 1978, 101, 345-368.	3.7	115
67	The development of acetylcholine sensitivity in nerveâ€free segments of skeletal muscle. Journal of Physiology, 1964, 170, 389-396.	1.3	113
68	Characteristics of transmitter release at regenerating frog neuromuscular junctions. Journal of Physiology, 1974, 239, 571-594.	1.3	109
69	Electrically induced release of acetylcholine from denervated Schwann cells. Journal of Physiology, 1974, 237, 431-452.	1.3	106
70	Changes in intracellular calcium and in membrane currents evoked by injection of inositol trisphosphate into Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1986, 228, 307-316.	1.8	105
71	Electrical synapses between motoneurons in the spinal cord of the newborn rat. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1980, 208, 115-120.	1.8	104
72	Glutamate current noise: postâ€synaptic channel kinetics investigated under voltage clamp.. Journal of Physiology, 1978, 282, 219-242.	1.3	103

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73	Electron-microscopic structure of denervated skeletal muscle. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1969, 174, 253-269.	1.8	100
74	The effect of procaine on the action of acetylcholine at the neuromuscular junction.. Journal of Physiology, 1975, 249, 269-284.	1.3	98
75	Serotonin receptors induced by exogenous messenger RNA in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1983, 219, 103-109.	1.8	98
76	Endâ€plate currents and acetylcholine noise at normal and myasthenic human endâ€plates.. Journal of Physiology, 1979, 287, 247-265.	1.3	97
77	Calcium conductance of acetylcholine-induced endplate channels. Nature, 1979, 279, 638-639.	13.7	96
78	Release of Acetylcholine from a Nerve Terminal by Electric Pulses of Variable Strength and Duration. Nature, 1965, 207, 1097-1098.	13.7	95
79	Glutamate and quisqualate noise in voltage-clamped locust muscle fibres. Nature, 1976, 261, 151-153.	13.7	95
80	Sensitivity to Acetylcholine in Rat Slow Muscle. Nature, 1966, 210, 855-856.	13.7	92
81	Properties of acetylcholine receptors translated by cat muscle mRNA in Xenopus oocytes.. EMBO Journal, 1982, 1, 1307-1312.	3.5	92
82	Partial purification and functional expression of brain mRNAs coding for neurotransmitter receptors and voltage-operated channels.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 7994-7998.	3.3	92
83	Inputâ€“Output Relation of a Single Synapse. Nature, 1966, 212, 1242-1245.	13.7	90
84	The effect of prolonged depolarization on synaptic transfer in the stellate ganglion of the squid. Journal of Physiology, 1971, 216, 503-512.	1.3	90
85	A serum factor that activates the phosphatidylinositol phosphate signaling system in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1521-1525.	3.3	90
86	Incorporation of acetylcholine receptors and Cl- channels in Xenopus oocytes injected with Torpedo electroplaque membranes.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5224-5228.	3.3	87
87	Internalization and recycling of 5-HT2A receptors activated by serotonin and protein kinase C-mediated mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14470-14475.	3.3	86
88	Further observations on the distribution of acetylcholineâ€reactive sites in skeletal muscle. Journal of Physiology, 1964, 170, 379-388.	1.3	85
89	Acute muscle denervation induced by Î²-bungarotoxin. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1976, 194, 545-553.	1.8	85
90	Nonâ€transmitting neuromuscular junctions during an early stage of endâ€plate reinnervation. Journal of Physiology, 1974, 239, 553-570.	1.3	83

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91	Transmitter induced calcium entry across the postâ€synaptic membrane at frog endâ€plates measured using arsenazo III.. Journal of Physiology, 1980, 300, 197-212.	1.3	83
92	A transient inward current elicited by hyperpolarization during serotonin activation in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1985, 223, 279-292.	1.8	82
93	Assembly and N-glycosylation of all ACh receptor subunits are required for their efficient insertion into plasma membranes. Molecular Brain Research, 1989, 5, 183-192.	2.5	82
94	Actions of pentobarbital on rat brain receptors expressed in Xenopus oocytes. Journal of Neuroscience, 1986, 6, 2290-2297.	1.7	81
95	Expression of functional neurotransmitter receptors in Xenopus oocytes after injection of human brain membranes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13238-13242.	3.3	80
96	Calcium transients in mammalian muscles. Nature, 1980, 284, 560-561.	13.7	79
97	Voltage-operated channels induced by foreign messenger RNA in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1983, 220, 131-140.	1.8	78
98	Glutamate and kainate receptors induced by rat brain messenger RNA in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1984, 221, 127-143.	1.8	78
99	Formation of Extra Nerve-muscle Junctions in Innervated Muscle. Nature, 1963, 199, 1191-1192.	13.7	77
100	The antagonism between botulinum toxin and calcium in motor nerve terminals. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1982, 216, 369-376.	1.8	76
101	Î±-Bungarotoxin enhances transmitter â€˜releasedâ€™ at the neuromuscular junction. Nature, 1978, 272, 641-643.	13.7	75
102	Synthesis of chick brain GABA receptors by frog oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1982, 216, 509-515.	1.8	72
103	Induction of the action potential mechanism in slow muscle fibres of the frog. Journal of Physiology, 1971, 217, 737-754.	1.3	71
104	Further Observations on Acetylcholine Noise. Nature: New Biology, 1971, 232, 124-126.	4.5	71
105	Subunit-selective modulation of GABAAreceptors by the non-steroidal anti-inflammatory agent, mefenamic acid. European Journal of Neuroscience, 1999, 11, 2897-2905.	1.2	70
106	Calcium transients evoked by action potentials in frog twitch muscle fibres. Journal of Physiology, 1982, 333, 655-679.	1.3	69
107	Acetylcholine in Mammalian Neuromuscular Transmission. Nature, 1958, 182, 805-806.	13.7	68
108	Threonine-for-leucine mutation within domain M2 of the neuronal alpha(7) nicotinic receptor converts 5-hydroxytryptamine from antagonist to agonist.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11231-11235.	3.3	68

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109	Effects of Zn2+ on wild and mutant neuronal Â7 nicotinic receptors. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10246-10250.	3.3	68
110	BDNF modulates GABAA receptors microtransplanted from the human epileptic brain to Xenopus oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1667-1672.	3.3	64
111	Induced Innervation of End-plate Free Muscle Segments. Nature, 1962, 193, 281-282.	13.7	63
112	Neuromuscular transmission after immunization against acetylcholine receptors. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1975, 189, 57-68.	1.8	63
113	A calcium-independent chloride current activated by hyperpolarization in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1988, 233, 191-199.	1.8	63
114	Effects of steroids on gamma-aminobutyric acid receptors expressed in Xenopus oocytes by poly(A)+ RNA from mammalian brain and retina. Molecular Pharmacology, 1992, 41, 89-103.	1.0	62
115	Nonlinearity and facilitation in phosphoinositide signaling studied by the use of caged inositol trisphosphate in Xenopus oocytes. Journal of Neuroscience, 1989, 9, 4068-4077.	1.7	61
116	A monovalent cationic conductance that is blocked by extracellular divalent cations in Xenopus oocytes.. Journal of Physiology, 1995, 484, 593-604.	1.3	61
117	A factor that activates oscillatory chloride currents in Xenopus oocytes copurifies with a subfraction of serum albumin.. Journal of Biological Chemistry, 1991, 266, 20602-20609.	1.6	61
118	The effect of local blockage of motor nerve terminals. Journal of Physiology, 1968, 199, 729-741.	1.3	60
119	Non-selective Re-innervation of Slow and Fast Muscle Fibres in the Rat. Nature, 1969, 222, 569-571.	13.7	60
120	Latencies of membrane currents evoked in Xenopus oocytes by receptor activation, inositol trisphosphate and calcium.. Journal of Physiology, 1989, 415, 189-210.	1.3	60
121	Rundown of GABA type A receptors is a dysfunction associated with human drug-resistant mesial temporal lobe epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15219-15223.	3.3	60
122	GABA _A -current rundown of temporal lobe epilepsy is associated with repetitive activation of GABA _A â€œphasicâ€•receptors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20944-20948.	3.3	60
123	Calcium transients recorded with arsenazo III in the presynaptic terminal of the squid giant synapse. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1981, 212, 197-211.	1.8	59
124	Effects of serotonergic agents on neuronal nicotinic acetylcholine receptors.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 2919-2923.	3.3	59
125	Inositol trisphosphate activates a voltage-dependent calcium influx in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1987, 231, 27-36.	1.8	58
126	Incorporation of reconstituted acetylcholine receptors from Torpedo into the Xenopus oocyte membrane.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8468-8472.	3.3	58

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127	The Primary Sequences and Neuromuscular Effects of Three Neurotoxic Polypeptides from the Venom of Dendroaspis Viridis. FEBS Journal, 1974, 45, 457-468.	0.2	55
128	Membrane currents elicited by divalent cations in Xenopus oocytes.. Journal of Physiology, 1989, 417, 173-195.	1.3	55
129	Microtransplantation of ligand-gated receptor-channels from fresh or frozen nervous tissue into Xenopus oocytes: A potent tool for expanding functional information. Progress in Neurobiology, 2009, 88, 32-40.	2.8	55
130	The effect of lanthanum ions on acetylcholine in frog muscle.. Journal of Physiology, 1980, 309, 199-214.	1.3	54
131	Effects of cyclothiazide on GluR1/AMPA receptors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2943-2947.	3.3	54
132	Structural and functional changes of frog neuromuscular junctions in high calcium solutions. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1971, 178, 407-415.	1.8	53
133	An analysis of acetylcholine in frog muscle by mass fragmentography. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1977, 197, 285-297.	1.8	53
134	Electron-microscopical Localization of Products from Histochemical Reactions used to detect Cholinesterase in Muscle. Nature, 1964, 204, 293-295.	13.7	52
135	Properties of human brain glycine receptors expressed in Xenopus oocytes. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1984, 221, 235-244.	1.8	52
136	Cationic modulation of rho 1-type gamma-aminobutyrate receptors expressed in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12725-12729.	3.3	52
137	Injection of inositol 1, 3, 4, 5-tetrakisphosphate into Xenopus oocytes generates a chloride current dependent upon intracellular calcium. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1987, 232, 59-70.	1.8	51
138	Motor units in the rat diaphragm. Journal of Physiology, 1958, 140, 427-39.	1.3	51
139	Electrophysiological and chemical determination of acetylcholine release at the frog neuromuscular junction.. Journal of Physiology, 1983, 334, 245-254.	1.3	50
140	Inhibition of nicotinic acetylcholine receptors by bicuculline. Neuropharmacology, 2001, 41, 854-861.	2.0	50
141	Phosphatase inhibitors remove the run-down of Â-aminobutyric acid type A receptors in the human epileptic brain. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10183-10188.	3.3	50
142	Characterization of bicuculline/baclofen-insensitive gamma-aminobutyric acid receptors expressed in Xenopus oocytes. I. Effects of Cl- channel inhibitors. Molecular Pharmacology, 1992, 42, 165-73.	1.0	50
143	Neurotransmitter receptors and voltage-dependent Ca2+ channels encoded by mRNA from the adult corpus callosum.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3270-3274.	3.3	49
144	Microtransplantation of membranes from cultured cells to Xenopus oocytes: A method to study neurotransmitter receptors embedded in native lipids. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2896-2900.	3.3	49

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145	From The Cover: Microtransplantation of functional receptors and channels from the Alzheimer's brain to frog oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1760-1763.	3.3	49
146	Enhancement of GABA _A -current run-down in the hippocampus occurs at the first spontaneous seizure in a model of temporal lobe epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3180-3185.	3.3	49
147	A factor that activates oscillatory chloride currents in Xenopus oocytes copurifies with a subfraction of serum albumin. Journal of Biological Chemistry, 1991, 266, 20602-9.	1.6	49
148	Acetylcholine-induced channels and transmitter release at human endplates. Nature, 1978, 271, 74-75.	13.7	48
149	Extracellular ions and excitationâ€contraction coupling in frog twitch muscle fibres.. Journal of Physiology, 1984, 351, 687-710.	1.3	48
150	Actions of dopamine and dopaminergic drugs on cloned serotonin receptors expressed in Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 4708-4712.	3.3	48
151	Effects of fluoxetine on wild and mutant neuronal Î±7 nicotinic receptors. Molecular Psychiatry, 1998, 3, 350-355.	4.1	48
152	Intracellular Ca2+-dependent and Ca2+-independent responses of rat brain serotonin receptors transplanted to Xenopus oocytes. Neuroscience Research, 1985, 2, 491-496.	1.0	47
153	Transmitter Action in the Giant Synapse of the Squid. Nature, 1969, 223, 1284-1286.	13.7	46
154	The effect of atropine on acetylcholine action at the neuromuscular junction. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1973, 184, 221-226.	1.8	46
155	Induced Transmitter Release from Schwann Cells and its Suppression by Actinomycin D. Nature: New Biology, 1973, 241, 85-86.	4.5	44
156	Calcium transients in frog slow muscle fibres. Nature, 1977, 268, 750-752.	13.7	44
157	A further study of the phospholipaseâ€independent action of betaâ€bungarotoxin at frog endâ€plates.. Journal of Physiology, 1981, 319, 179-191.	1.3	44
158	Activation, internalization, and recycling of the serotonin 2A receptor by dopamine. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15248-15253.	3.3	44
159	Free and bound acetylcholine in frog muscle.. Journal of Physiology, 1982, 333, 189-199.	1.3	43
160	Hormonal activation of ionic currents in follicle-enclosed Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 4135-4139.	3.3	43
161	Effects of fenamates and other nonsteroidal anti-inflammatory drugs on rat brain GABAA receptors expressed in Xenopus oocytes. Journal of Pharmacology and Experimental Therapeutics, 1994, 268, 806-17.	1.3	43
162	Lack of Correspondence between the Amplitudes of Spontaneous Potentials and Unit Potentials evoked by Nerve Impulses at Regenerating Neuromuscular Junctions. Nature: New Biology, 1971, 232, 126-128.	4.5	42

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163	Modification of transmitter release by electrical interference with motor nerve endings. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1967, 167, 1-7.	1.8	41
164	Acetylcholine receptors. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1975, 270, 551-559.	2.4	41
165	Effects of some divalent cations on synaptic transmission in frog spinal neurones.. Journal of Physiology, 1979, 294, 387-406.	1.3	41
166	Junctional and extrajunctional membrane channels activated by GABA in locust muscle fibres. Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character, 1981, 211, 527-535.	1.8	41
167	Adenosine receptor antagonists alter the stability of human epileptic GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15118-15123.	3.3	41
168	Inhibition of rat brain glutamate receptors by philanthotoxin. Journal of Pharmacology and Experimental Therapeutics, 1989, 251, 156-63.	1.3	41
169	Effect of a â€˜Fastâ€™ Nerve on â€˜Slowâ€™ Muscle Fibres in the Frog. Nature, 1966, 209, 717-718.	13.7	40
170	Potential-dependent transition temperature of ionic channels induced by glutamate in locust muscle. Nature, 1977, 268, 663-665.	13.7	40
171	Expression of human epileptic temporal lobe neurotransmitter receptors in Xenopus oocytes: An innovative approach to study epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15078-15083.	3.3	40
172	Abnormal GABAA receptors from the human epileptic hippocampal subiculum microtransplanted to Xenopus oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2514-2518.	3.3	40
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