

Lorna W Role

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93
papers

11,335
citations

46
h-index

99
g-index

99
ext. papers

12,192
ext. citations

10.8
avg, IF

6.02
L-index

#	Paper	IF	Citations
93	Nicotine enhancement of fast excitatory synaptic transmission in CNS by presynaptic receptors. <i>Science</i> , 1995 , 269, 1692-6	33.3	915
92	Physiological diversity of nicotinic acetylcholine receptors expressed by vertebrate neurons. <i>Annual Review of Physiology</i> , 1995 , 57, 521-46	23.1	886
91	Axonal neuregulin-1 regulates myelin sheath thickness. <i>Science</i> , 2004 , 304, 700-3	33.3	720
90	Nicotinic receptors in the development and modulation of CNS synapses. <i>Neuron</i> , 1996 , 16, 1077-85	13.9	689
89	Neuregulin-1 type III determines the ensheathment fate of axons. <i>Neuron</i> , 2005 , 47, 681-94	13.9	554
88	Presynaptic ionotropic receptors and the control of transmitter release. <i>Annual Review of Neuroscience</i> , 1999 , 22, 443-85	17	490
87	Acetylcholine release from growth cones detected with patches of acetylcholine receptor-rich membranes. <i>Nature</i> , 1983 , 305, 632-4	50.4	349
86	Functional contributions of alpha5 subunit to neuronal acetylcholine receptor channels. <i>Nature</i> , 1996 , 380, 347-51	50.4	343
85	Developmental regulation of nicotinic acetylcholine receptors. <i>Annual Review of Neuroscience</i> , 1987 , 10, 403-57	17	326
84	Basal Forebrain Cholinergic Circuits and Signaling in Cognition and Cognitive Decline. <i>Neuron</i> , 2016 , 91, 1199-1218	13.9	304
83	Tangential neuronal migration controls axon guidance: a role for neuregulin-1 in thalamocortical axon navigation. <i>Cell</i> , 2006 , 125, 127-42	56.2	303
82	Cysteine-rich domain isoforms of the neuregulin-1 gene are required for maintenance of peripheral synapses. <i>Neuron</i> , 2000 , 25, 79-91	13.9	249
81	lynx1, an endogenous toxin-like modulator of nicotinic acetylcholine receptors in the mammalian CNS. <i>Neuron</i> , 1999 , 23, 105-14	13.9	247
80	Nicotinic receptor-mediated effects on appetite and food intake. <i>Journal of Neurobiology</i> , 2002 , 53, 618-32		239
79	Multiorgan autonomic dysfunction in mice lacking the beta2 and the beta4 subunits of neuronal nicotinic acetylcholine receptors. <i>Journal of Neuroscience</i> , 1999 , 19, 9298-305	6.6	239
78	Megacystis, mydriasis, and ion channel defect in mice lacking the alpha3 neuronal nicotinic acetylcholine receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 5746-51	11.5	239
77	Alpha 4 beta 2 neuronal nicotinic acetylcholine receptors in the central nervous system are inhibited by isoflurane and propofol, but alpha 7-type nicotinic acetylcholine receptors are unaffected. <i>Anesthesiology</i> , 1997 , 86, 859-65	4.3	209

76	Back signaling by the Nrg-1 intracellular domain. <i>Journal of Cell Biology</i> , 2003 , 161, 1133-41	7.3	197
75	Integration of endocannabinoid and leptin signaling in an appetite-related neural circuit. <i>Neuron</i> , 2005 , 48, 1055-66	13.9	190
74	A genetically encoded fluorescent acetylcholine indicator for in vitro and in vivo studies. <i>Nature Biotechnology</i> , 2018 , 36, 726-737	44.5	181
73	Type III neuregulin-1 is required for normal sensorimotor gating, memory-related behaviors, and corticostriatal circuit components. <i>Journal of Neuroscience</i> , 2008 , 28, 6872-83	6.6	175
72	Diversity in primary structure and function of neuronal nicotinic acetylcholine receptor channels. <i>Current Opinion in Neurobiology</i> , 1992 , 2, 254-62	7.6	169
71	Functional contribution of neuronal AChR subunits revealed by antisense oligonucleotides. <i>Science</i> , 1991 , 254, 1518-21	33.3	149
70	Functional contribution of the alpha7 subunit to multiple subtypes of nicotinic receptors in embryonic chick sympathetic neurones. <i>Journal of Physiology</i> , 1998 , 509 (Pt 3), 651-65	3.9	132
69	A cysteine-rich isoform of neuregulin controls the level of expression of neuronal nicotinic receptor channels during synaptogenesis. <i>Neuron</i> , 1998 , 20, 255-70	13.9	130
68	Presynaptic ionotropic receptors. <i>Current Opinion in Neurobiology</i> , 1996 , 6, 342-9	7.6	127
67	Coordinate release of ATP and GABA at in vitro synapses of lateral hypothalamic neurons. <i>Journal of Neuroscience</i> , 2002 , 22, 4794-804	6.6	122
66	Facilitation of glutamatergic neurotransmission by presynaptic nicotinic acetylcholine receptors. <i>Neuropharmacology</i> , 2000 , 39, 2715-25	5.5	106
65	Somatostatin and substance P inhibit catecholamine secretion from isolated cells of guinea-pig adrenal medulla. <i>Neuroscience</i> , 1981 , 6, 1813-21	3.9	102
64	Nicotinic modulation of synaptic transmission and plasticity in cortico-limbic circuits. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 432-40	7.5	99
63	On the mechanism of acetylcholine receptor accumulation at newly formed synapses on chick myotubes. <i>Journal of Neuroscience</i> , 1985 , 5, 2197-204	6.6	96
62	Activators of protein kinase C enhance acetylcholine receptor desensitization in sympathetic ganglion neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 7739-43	11.5	89
61	Cholinergic Signaling Controls Conditioned Fear Behaviors and Enhances Plasticity of Cortical-Amygdala Circuits. <i>Neuron</i> , 2016 , 90, 1057-70	13.9	89
60	Heteromeric complexes of alpha 5 and/or alpha 7 subunits. Effects of calcium and potential role in nicotine-induced presynaptic facilitation. <i>Annals of the New York Academy of Sciences</i> , 1999 , 868, 578-90	6.5	78
59	Functional contribution of the alpha5 subunit to neuronal nicotinic channels expressed by chick sympathetic ganglion neurones. <i>Journal of Physiology</i> , 1998 , 509 (Pt 3), 667-81	3.9	76

58	Nicotine-induced enhancement of glutamatergic and GABAergic synaptic transmission in the mouse amygdala. <i>Journal of Neurophysiology</i> , 2001 , 86, 463-74	3.2	71
57	Specific Basal Forebrain-Cortical Cholinergic Circuits Coordinate Cognitive Operations. <i>Journal of Neuroscience</i> , 2018 , 38, 9446-9458	6.6	63
56	Substance P modulation of acetylcholine-induced currents in embryonic chicken sympathetic and ciliary ganglion neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 2924-8	11.5	61
55	Presynaptic type III neuregulin 1 is required for sustained enhancement of hippocampal transmission by nicotine and for axonal targeting of alpha7 nicotinic acetylcholine receptors. <i>Journal of Neuroscience</i> , 2008 , 28, 9111-6	6.6	60
54	Functional properties and developmental regulation of nicotinic acetylcholine receptors on embryonic chicken sympathetic neurons. <i>Neuron</i> , 1989 , 3, 597-607	13.9	60
53	Both nicotinic and muscarinic receptors mediate catecholamine secretion by isolated guinea-pig chromaffin cells. <i>Neuroscience</i> , 1983 , 10, 979-85	3.9	60
52	Intramembranous valine linked to schizophrenia is required for neuregulin 1 regulation of the morphological development of cortical neurons. <i>Journal of Neuroscience</i> , 2010 , 30, 9199-208	6.6	57
51	Substance P modulates single-channel properties of neuronal nicotinic acetylcholine receptors. <i>Neuron</i> , 1990 , 4, 393-403	13.9	55
50	Long-lasting enhancement of glutamatergic synaptic transmission by acetylcholine contrasts with response adaptation after exposure to low-level nicotine. <i>Journal of Neuroscience</i> , 2001 , 21, 5182-90	6.6	51
49	Purification of adrenal medullary chromaffin cells by density gradient centrifugation. <i>Journal of Neuroscience Methods</i> , 1980 , 2, 253-65	3	49
48	Requirement of nicotinic acetylcholine receptor subunit beta2 in the maintenance of spiral ganglion neurons during aging. <i>Journal of Neuroscience</i> , 2005 , 25, 3041-5	6.6	47
47	Presynaptic type III neuregulin1-ErbB signaling targets {alpha}7 nicotinic acetylcholine receptors to axons. <i>Journal of Cell Biology</i> , 2008 , 181, 511-21	7.3	46
46	Cholinergic modulation of appetite-related synapses in mouse lateral hypothalamic slice. <i>Journal of Neuroscience</i> , 2005 , 25, 11133-44	6.6	45
45	Enhanced ACh sensitivity is accompanied by changes in ACh receptor channel properties and segregation of ACh receptor subtypes on sympathetic neurons during innervation in vivo. <i>Journal of Neuroscience</i> , 1993 , 13, 13-28	6.6	44
44	Peptide modulation of ACh receptor desensitization controls neurotransmitter release from chicken sympathetic neurons. <i>Journal of Neurophysiology</i> , 1993 , 69, 928-42	3.2	43
43	Illuminating the role of cholinergic signaling in circuits of attention and emotionally salient behaviors. <i>Frontiers in Synaptic Neuroscience</i> , 2014 , 6, 24	3.5	42
42	Facilitation of cortico-amygdala synapses by nicotine: activity-dependent modulation of glutamatergic transmission. <i>Journal of Neurophysiology</i> , 2008 , 99, 1988-99	3.2	42
41	Nicotine elicits prolonged calcium signaling along ventral hippocampal axons. <i>PLoS ONE</i> , 2013 , 8, e82719.7	3.7	38

40	Cholinergic modulation of purinergic and GABAergic co-transmission at in vitro hypothalamic synapses. <i>Journal of Neurophysiology</i> , 2002 , 88, 2501-8	3.2	37
39	Regulation of nAChR subunit gene expression relative to the development of pre- and postsynaptic projections of embryonic chick sympathetic neurons. <i>Developmental Biology</i> , 1994 , 162, 56-70	3.1	36
38	Catecholamine uptake into isolated adrenal chromaffin cells: inhibition of uptake by acetylcholine. <i>Neuroscience</i> , 1983 , 10, 987-96	3.9	34
37	Developmental changes in transmitter sensitivity and synaptic transmission in embryonic chicken sympathetic neurons innervated in vitro. <i>Developmental Biology</i> , 1991 , 147, 83-95	3.1	33
36	Cholinergic circuits and signaling in the pathophysiology of schizophrenia. <i>International Review of Neurobiology</i> , 2007 , 78, 193-223	4.4	32
35	Developmental regulation of multiple nicotinic AChR channel subtypes in embryonic chick habenula neurons: contributions of both the alpha 2 and alpha 4 subunit genes. <i>Pflugers Archiv European Journal of Physiology</i> , 1994 , 429, 27-43	4.6	31
34	Neural regulation of acetylcholine sensitivity in embryonic sympathetic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 2825-9	11.5	31
33	Type III neuregulin 1 is required for multiple forms of excitatory synaptic plasticity of mouse cortico-amygdala circuits. <i>Journal of Neuroscience</i> , 2013 , 33, 9655-66	6.6	30
32	Selective deletion of the alpha5 subunit differentially affects somatic-dendritic versus axonally targeted nicotinic ACh receptors in mouse. <i>Journal of Physiology</i> , 2005 , 563, 119-37	3.9	29
31	Neuronal nicotinic acetylcholine receptor modulation by general anesthetics. <i>Toxicology Letters</i> , 1998 , 100-101, 149-53	4.4	29
30	Mechanisms of ionophore-induced catecholamine secretion. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1980 , 213, 241-6	4.7	29
29	Changes in the number of chick ciliary ganglion neuron processes with time in cell culture. <i>Journal of Cell Biology</i> , 1987 , 104, 363-70	7.3	28
28	The distribution of acetylcholine receptor clusters and sites of transmitter release along chick ciliary ganglion neurite-myotube contacts in culture. <i>Journal of Cell Biology</i> , 1987 , 104, 371-9	7.3	28
27	Target-specific control of nicotinic receptor expression at developing interneuronal synapses in chick. <i>Nature Neuroscience</i> , 1999 , 2, 528-34	25.5	26
26	Protein kinase C blocks somatostatin-induced modulation of calcium current in chick sympathetic neurons. <i>Journal of Neurophysiology</i> , 1993 , 70, 1639-43	3.2	25
25	Uptake of antisense oligonucleotides and functional block of acetylcholine receptor subunit gene expression in primary embryonic neurons. <i>Genesis</i> , 1993 , 14, 296-304		25
24	Disrupted activity in the hippocampal-accumbens circuit of type III neuregulin 1 mutant mice. <i>Neuropsychopharmacology</i> , 2011 , 36, 488-96	8.7	22
23	Type III neuregulin 1 regulates pathfinding of sensory axons in the developing spinal cord and periphery. <i>Development (Cambridge)</i> , 2011 , 138, 4887-98	6.6	21

22	Increased stability of microtubules in cultured olfactory neuroepithelial cells from individuals with schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2014 , 48, 252-258	5.5	20
21	Modulation of nicotinic AChR channels by prostaglandin E2 in chick sympathetic ganglion neurons. <i>Journal of Neurophysiology</i> , 1998 , 79, 870-8	3.2	19
20	Multiple personalities of neuregulin gene family members. <i>Journal of Comparative Neurology</i> , 2004 , 472, 134-9	3.4	18
19	Differential modulation of nicotinic acetylcholine receptor subtypes and synaptic transmission in chick sympathetic ganglia by PGE(2). <i>Journal of Neurophysiology</i> , 2001 , 85, 2498-508	3.2	18
18	Acetylcholine is released in the basolateral amygdala in response to predictors of reward and enhances the learning of cue-reward contingency. <i>ELife</i> , 2020 , 9,	8.9	18
17	Development of synaptic transmission at autonomic synapses in vitro revealed by cytochrome oxidase histochemistry. <i>Journal of Neurobiology</i> , 1990 , 21, 578-91		16
16	Age-related neuronal loss in the cochlea is not delayed by synaptic modulation. <i>Neurobiology of Aging</i> , 2011 , 32, 2321.e13-23	5.6	14
15	Overnight fasting regulates inhibitory tone to cholinergic neurons of the dorsomedial nucleus of the hypothalamus. <i>PLoS ONE</i> , 2013 , 8, e60828	3.7	13
14	Type III Nrg1 back signaling enhances functional TRPV1 along sensory axons contributing to basal and inflammatory thermal pain sensation. <i>PLoS ONE</i> , 2011 , 6, e25108	3.7	11
13	Optogenetic studies of nicotinic contributions to cholinergic signaling in the central nervous system. <i>Reviews in the Neurosciences</i> , 2014 , 25, 755-71	4.7	10
12	Electrophysiological properties of basal forebrain cholinergic neurons identified by genetic and optogenetic tagging. <i>Journal of Neurochemistry</i> , 2017 , 142 Suppl 2, 103-110	6	8
11	Substance P potentiates calcium channel modulation by somatostatin in chick sympathetic ganglia. <i>Journal of Neurophysiology</i> , 1994 , 72, 2683-90	3.2	8
10	Mapping of presynaptic nicotinic acetylcholine receptors using fluorescence imaging of neuritic calcium. <i>Journal of Neuroscience Methods</i> , 2003 , 122, 109-22	3	7
9	Deletion from Cholinergic Neurons Selectively Impairs Recognition Memory and Disrupts Cholinergic Modulation of the Perirhinal Cortex. <i>ENeuro</i> , 2019 , 6,	3.9	7
8	Presynaptic type III neuregulin1-ErbB signaling targets alpha7 nicotinic acetylcholine receptors to axons. <i>Journal of General Physiology</i> , 2008 , 131, i4	3.4	7
7	Axonal Type III Nrg1 Controls Glutamate Synapse Formation and GluA2 Trafficking in Hippocampal-Accumbens Connections. <i>ENeuro</i> , 2017 , 4,	3.9	6
6	Activation of phosphoinositide turnover and protein kinase C by neurotransmitters that modulate calcium channels in embryonic chick sensory neurons. <i>International Journal of Developmental Neuroscience</i> , 1992 , 10, 421-33	2.7	5
5	Live Imaging of Nicotine Induced Calcium Signaling and Neurotransmitter Release Along Ventral Hippocampal Axons. <i>Journal of Visualized Experiments</i> , 2015 , e52730	1.6	3

- 4 Regional variations in calculated diastolic wall stress in rat left ventricle. *American Journal of Physiology - Heart and Circulatory Physiology*, **1978**, 235, H247-50 5.2 3
- 3 Basal forebrain cholinergic neurons are part of the threat memory engram 1
- 2 Diversity in functional properties and primary structure of neuronal nicotinic receptor channels. *Kidney and Blood Pressure Research*, **1994**, 17, 172-7 3.1
- 1 Presynaptic Nicotinic Acetylcholine Receptors and the Modulation of Circuit Excitability. *Receptors*, **2014**, 137-167