

# Richard Robitaille

## List of Publications by Year in descending order

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54  
papers

5,350  
citations

101543

36  
h-index

161849

54  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutransmitters Travel in Time and Space. <i>Neuron</i> , 2014, 81, 728-739.	8.1	1,010
2	Astrocytes Are Endogenous Regulators of Basal Transmission at Central Synapses. <i>Cell</i> , 2011, 146, 785-798.	28.9	536
3	Strategic location of calcium channels at transmitter release sites of frog neuromuscular synapses. <i>Neuron</i> , 1990, 5, 773-779.	8.1	387
4	GABAergic Network Activation of Glial Cells Underlies Hippocampal Heterosynaptic Depression. <i>Journal of Neuroscience</i> , 2006, 26, 5370-5382.	3.6	348
5	Glial Cells and Neurotransmission. <i>Neuron</i> , 2003, 40, 389-400.	8.1	217
6	Modulation of Synaptic Efficacy and Synaptic Depression by Glial Cells at the Frog Neuromuscular Junction. <i>Neuron</i> , 1998, 21, 847-855.	8.1	216
7	Transmitter release increases intracellular calcium in perisynaptic schwann cells in situ. <i>Neuron</i> , 1992, 8, 1069-1077.	8.1	210
8	Neuromuscular synaptogenesis: coordinating partners with multiple functions. <i>Nature Reviews Neuroscience</i> , 2014, 15, 703-718.	10.2	144
9	An astrocyte-dependent mechanism for neuronal rhythmogenesis. <i>Nature Neuroscience</i> , 2015, 18, 844-854.	14.8	130
10	Synapse-Glia Interactions at the Mammalian Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2001, 21, 3819-3829.	3.6	128
11	Role of Sensory-Evoked NMDA Plateau Potentials in the Initiation of Locomotion. <i>Science</i> , 1997, 278, 1122-1125.	12.6	120
12	Synaptic regulation of glial protein expression in vivo. <i>Neuron</i> , 1994, 12, 443-455.	8.1	102
13	Differential Regulation of Transmitter Release by Presynaptic and Glial Ca <sup>2+</sup> Internal Stores at the Neuromuscular Synapse. <i>Journal of Neuroscience</i> , 2001, 21, 1911-1922.	3.6	92
14	Perisynaptic Glia Discriminate Patterns of Motor Nerve Activity and Influence Plasticity at the Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2010, 30, 11870-11882.	3.6	86
15	Neuromuscular synaptogenesis: coordinating partners with multiple functions. <i>Nature Reviews Neuroscience</i> , 2014, 15, 703-18.	10.2	85
16	Neuroleptics as therapeutic compounds stabilizing neuromuscular transmission in amyotrophic lateral sclerosis. <i>JCI Insight</i> , 2017, 2, .	5.0	83
17	Early and Persistent Abnormal Decoding by Glial Cells at the Neuromuscular Junction in an ALS Model. <i>Journal of Neuroscience</i> , 2015, 35, 688-706.	3.6	77
18	Perisynaptic Schwann Cells at the Neuromuscular Synapse: Adaptable, Multitasking Glial Cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020503.	5.5	75

#	ARTICLE	IF	CITATIONS
19	Dynamic neuromuscular remodeling precedes motor-unit loss in a mouse model of ALS. <i>ELife</i> , 2018, 7, .	6.0	74
20	Astrocytes detect and upregulate transmission at inhibitory synapses of somatostatin interneurons onto pyramidal cells. <i>Nature Communications</i> , 2018, 9, 4254.	12.8	73
21	Perisynaptic Schwann Cells at the Neuromuscular Junction: Nerve- and Activity-Dependent Contributions to Synaptic Efficacy, Plasticity, and Reinnervation. <i>Neuroscientist</i> , 2003, 9, 144-157.	3.5	62
22	New perspectives on amyotrophic lateral sclerosis: the role of glial cells at the neuromuscular junction. <i>Journal of Physiology</i> , 2017, 595, 647-661.	2.9	59
23	Differential Frequency-Dependent Regulation of Transmitter Release by Endogenous Nitric Oxide at the Amphibian Neuromuscular Synapse. <i>Journal of Neuroscience</i> , 2001, 21, 1087-1095.	3.6	58
24	Muscarinic Control of Cytoskeleton in Perisynaptic Glia. <i>Journal of Neuroscience</i> , 1999, 19, 3836-3846.	3.6	57
25	Muscarinic Ca <sup>2+</sup> responses resistant to muscarinic antagonists at perisynaptic schwann cells of the frog neuromuscular junction. <i>Journal of Physiology</i> , 1997, 504, 337-347.	2.9	56
26	Glial Cells Decipher Synaptic Competition at the Mammalian Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2013, 33, 1297-1313.	3.6	56
27	Glial cells in synaptic plasticity. <i>Journal of Physiology (Paris)</i> , 2006, 99, 75-83.	2.1	54
28	Glutamatergic modulation of synaptic plasticity at a PNS vertebrate cholinergic synapse. <i>European Journal of Neuroscience</i> , 2003, 18, 3241-3250.	2.6	53
29	Opposite Synaptic Alterations at the Neuromuscular Junction in an ALS Mouse Model: When Motor Units Matter. <i>Journal of Neuroscience</i> , 2017, 37, 8901-8918.	3.6	53
30	Differential mechanisms of Ca <sup>2+</sup> responses in glial cells evoked by exogenous and endogenous glutamate in rat hippocampus. <i>Hippocampus</i> , 2001, 11, 132-145.	1.9	52
31	Glial modulation of synaptic transmission at the neuromuscular junction. <i>Glia</i> , 2004, 47, 284-289.	4.9	45
32	Glial cells as active partners in synaptic functions. <i>Progress in Brain Research</i> , 2001, 132, 227-240.	1.4	43
33	<i>Vapb</i> /Amyotrophic lateral sclerosis 8 knock-in mice display slowly progressive motor behavior defects accompanying ER stress and autophagic response. <i>Human Molecular Genetics</i> , 2015, 24, 6515-6529.	2.9	43
34	Localization and characterization of nitric oxide synthase at the frog neuromuscular junction. <i>Journal of Neurocytology</i> , 1998, 27, 829-840.	1.5	41
35	Neurotrophins modulate neuron-glia interactions at a vertebrate synapse. <i>European Journal of Neuroscience</i> , 2007, 25, 1287-1296.	2.6	41
36	Calcium signaling in Schwann cells at synaptic and extra-synaptic sites: Active glial modulation of neuronal activity. <i>Glia</i> , 2006, 54, 691-699.	4.9	40

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37	Purnergic modulation of synaptic signalling at the neuromuscular junction. Pflugers Archiv European Journal of Physiology, 2006, 452, 608-614.	2.8	34
38	Endogenous peptidergic modulation of perisynaptic Schwann cells at the frog neuromuscular junction. Journal of Physiology, 1998, 512, 197-209.	2.9	31
39	Effects of adenosine on Ca <sup>2+</sup> entry in the nerve terminal of the frog neuromuscular junction. Canadian Journal of Physiology and Pharmacology, 1999, 77, 707-714.	1.4	27
40	Nitric oxide dependence of glutamate-mediated modulation at a vertebrate neuromuscular junction. European Journal of Neuroscience, 2008, 28, 577-587.	2.6	27
41	<i>In vivo</i> long-term synaptic plasticity of glial cells. Journal of Physiology, 2010, 588, 1039-1056.	2.9	26
42	The Novel Small Molecule TRVA242 Stabilizes Neuromuscular Junction Defects in Multiple Animal Models of Amyotrophic Lateral Sclerosis. Neurotherapeutics, 2019, 16, 1149-1166.	4.4	26
43	Purnergic-Dependent Glial Regulation of Synaptic Plasticity of Competing Terminals and Synapse Elimination at the Neuromuscular Junction. Cell Reports, 2018, 25, 2070-2082.e6.	6.4	25
44	Properties of Glial Cell at the Neuromuscular Junction Are Incompatible with Synaptic Repair in the <i>SOD1<sup>G37R</sup></i> ALS Mouse Model. Journal of Neuroscience, 2020, 40, 7759-7777.	3.6	21
45	Modulation of neurotransmission by reciprocal synapse-glial interactions at the neuromuscular junction. Journal of Neurocytology, 2003, 32, 1003-1015.	1.5	20
46	Long-term <i>in vivo</i> modulation of synaptic efficacy at the neuromuscular junction of <i>Rana pipiens</i> frogs. Journal of Physiology, 2005, 569, 163-178.	2.9	18
47	Effects of adenosine on Ca <sup>2+</sup> entry in the nerve terminal of the frog neuromuscular junction. Canadian Journal of Physiology and Pharmacology, 1999, 77, 707-714.	1.4	18
48	GABAergic modulation of olfactomotor transmission in lampreys. PLoS Biology, 2018, 16, e2005512.	5.6	16
49	Sex-Specific Differences in Motor-Unit Remodeling in a Mouse Model of ALS. ENeuro, 2020, 7, ENEURO.0388-19.2020.	1.9	12
50	Functional adaptation of glial cells at neuromuscular junctions in response to injury. Glia, 2022, 70, 1605-1629.	4.9	12
51	Improved Human Muscle Biopsy Method To Study Neuromuscular Junction Structure and Functions with Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 2098-2102.	3.6	11
52	A Novel Egr-1-Agrin Pathway and Potential Implications for Regulation of Synaptic Physiology and Homeostasis at the Neuromuscular Junction. Frontiers in Aging Neuroscience, 2017, 9, 258.	3.4	10
53	Neuron-glia interactions at the neuromuscular synapse. Novartis Foundation Symposium, 2006, 276, 222-9; discussion 229-37, 275-81.	1.1	5
54	hnRNP A1B, a Splice Variant of HNRNPA1, Is Spatially and Temporally Regulated. Frontiers in Neuroscience, 2021, 15, 724307.	2.8	3