

Louis ric Trudeau

List of Publications by Citations

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106
papers

5,101
citations

39
h-index

69
g-index

121
ext. papers

6,065
ext. citations

6.7
avg, IF

5.64
L-index

#	Paper	IF	Citations
106	Beta-lactamase protein fragment complementation assays as in vivo and in vitro sensors of protein protein interactions. <i>Nature Biotechnology</i> , 2002 , 20, 619-22	44.5	362
105	Parkinson's Disease-Related Proteins PINK1 and Parkin Repress Mitochondrial Antigen Presentation. <i>Cell</i> , 2016 , 166, 314-327	56.2	281
104	From glutamate co-release to vesicular synergy: vesicular glutamate transporters. <i>Nature Reviews Neuroscience</i> , 2011 , 12, 204-16	13.5	257
103	Elevated Mitochondrial Bioenergetics and Axonal Arborization Size Are Key Contributors to the Vulnerability of Dopamine Neurons. <i>Current Biology</i> , 2015 , 25, 2349-60	6.3	248
102	Intestinal infection triggers Parkinson's disease-like symptoms in Pink1 mice. <i>Nature</i> , 2019 , 571, 565-569	50.4	201
101	Direct modulation of the secretory machinery underlies PKA-dependent synaptic facilitation in hippocampal neurons. <i>Neuron</i> , 1996 , 17, 789-97	13.9	200
100	On Cell Loss and Selective Vulnerability of Neuronal Populations in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018 , 9, 455	4.1	137
99	GDNF enhances the synaptic efficacy of dopaminergic neurons in culture. <i>European Journal of Neuroscience</i> , 2000 , 12, 3172-80	3.5	127
98	Dopamine neurons in culture express VGLUT2 explaining their capacity to release glutamate at synapses in addition to dopamine. <i>Journal of Neurochemistry</i> , 2004 , 88, 1398-405	6	123
97	The role of neurotensin in central nervous system pathophysiology: what is the evidence?. <i>Journal of Psychiatry and Neuroscience</i> , 2006 , 31, 229-45	4.5	101
96	VGLUT2 in dopamine neurons is required for psychostimulant-induced behavioral activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 389-94	11.5	95
95	Glutamate in dopamine neurons: synaptic versus diffuse transmission. <i>Brain Research Reviews</i> , 2008 , 58, 290-302		89
94	Effects of Serine 129 Phosphorylation on β Synuclein Aggregation, Membrane Association, and Internalization. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4374-85	5.4	87
93	The multilingual nature of dopamine neurons. <i>Progress in Brain Research</i> , 2014 , 211, 141-64	2.9	83
92	Developmental and target-dependent regulation of vesicular glutamate transporter expression by dopamine neurons. <i>Journal of Neuroscience</i> , 2008 , 28, 6309-18	6.6	83
91	Human mesenchymal stromal cell-secreted lactate induces M2-macrophage differentiation by metabolic reprogramming. <i>Oncotarget</i> , 2016 , 7, 30193-210	3.3	82
90	The dual dopamine-glutamate phenotype of growing mesencephalic neurons regresses in mature rat brain. <i>Journal of Comparative Neurology</i> , 2009 , 517, 873-91	3.4	78

89	Modulation of an early step in the secretory machinery in hippocampal nerve terminals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 7163-8	11.5	74
88	Glutamate co-transmission as an emerging concept in monoamine neuron function. <i>Journal of Psychiatry and Neuroscience</i> , 2004 , 29, 296-310	4.5	72
87	Enhanced sucrose and cocaine self-administration and cue-induced drug seeking after loss of VGLUT2 in midbrain dopamine neurons in mice. <i>Journal of Neuroscience</i> , 2011 , 31, 12593-603	6.6	71
86	D2 receptors inhibit the secretory process downstream from calcium influx in dopaminergic neurons: implication of K ⁺ channels. <i>Journal of Neurophysiology</i> , 2002 , 87, 1046-56	3.2	70
85	Presynaptic mu-opioid receptors regulate a late step of the secretory process in rat ventral tegmental area GABAergic neurons. <i>Neuropharmacology</i> , 2002 , 42, 1065-78	5.5	69
84	Enhanced glutamatergic phenotype of mesencephalic dopamine neurons after neonatal 6-hydroxydopamine lesion. <i>Neuroscience</i> , 2008 , 156, 59-70	3.9	64
83	Chondroitin sulfate inhibits the nuclear translocation of nuclear factor-kappaB in interleukin-1beta-stimulated chondrocytes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008 , 102, 59-65	3.1	64
82	Neurotensin polyplex as an efficient carrier for delivering the human GDNF gene into nigral dopamine neurons of hemiparkinsonian rats. <i>Molecular Therapy</i> , 2006 , 14, 857-65	11.7	60
81	Glutamate corelease promotes growth and survival of midbrain dopamine neurons. <i>Journal of Neuroscience</i> , 2012 , 32, 17477-91	6.6	58
80	Neuroinflammation is associated with changes in glial mGluR5 expression and the development of neonatal excitotoxic lesions. <i>Glia</i> , 2011 , 59, 188-99	9	55
79	Critical roles for the netrin receptor deleted in colorectal cancer in dopaminergic neuronal precursor migration, axon guidance, and axon arborization. <i>Neuroscience</i> , 2010 , 169, 932-49	3.9	55
78	Role of calcium in neurotensin-evoked enhancement in firing in mesencephalic dopamine neurons. <i>Journal of Neuroscience</i> , 2004 , 24, 2566-74	6.6	54
77	Role of Kv1 potassium channels in regulating dopamine release and presynaptic D2 receptor function. <i>PLoS ONE</i> , 2011 , 6, e20402	3.7	52
76	Somatodendritic dopamine release requires synaptotagmin 4 and 7 and the participation of voltage-gated calcium channels. <i>Journal of Biological Chemistry</i> , 2011 , 286, 23928-37	5.4	48
75	Activation of neurotransmitter release in hippocampal nerve terminals during recovery from intracellular acidification. <i>Journal of Neurophysiology</i> , 1999 , 81, 2627-35	3.2	48
74	Clozapine inhibits synaptic transmission at GABAergic synapses established by ventral tegmental area neurones in culture. <i>Neuropharmacology</i> , 2000 , 39, 1536-43	5.5	46
73	Neurotensin triggers dopamine D2 receptor desensitization through a protein kinase C and beta-arrestin1-dependent mechanism. <i>Journal of Biological Chemistry</i> , 2011 , 286, 9174-84	5.4	45
72	Basal somatodendritic dopamine release requires snare proteins. <i>Journal of Neurochemistry</i> , 2006 , 96, 1740-9	6	41

71	Coordinated action of NSF and PKC regulates GABAB receptor signaling efficacy. <i>EMBO Journal</i> , 2006 , 25, 2698-709	13	41
70	Culture of postnatal mesencephalic dopamine neurons on an astrocyte monolayer. <i>Current Protocols in Neuroscience</i> , 2008 , Chapter 3, Unit 3.21	2.7	40
69	Chronic exposure to nerve growth factor increases acetylcholine and glutamate release from cholinergic neurons of the rat medial septum and diagonal band of Broca via mechanisms mediated by p75NTR. <i>Journal of Neuroscience</i> , 2008 , 28, 1404-9	6.6	40
68	Dopamine facilitates dendritic spine formation by cultured striatal medium spiny neurons through both D1 and D2 dopamine receptors. <i>Neuropharmacology</i> , 2013 , 67, 432-43	5.5	39
67	NTS-Polyplex: a potential nanocarrier for neurotrophic therapy of Parkinson's disease. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 1052-69	6	39
66	Lmx1a and Lmx1b regulate mitochondrial functions and survival of adult midbrain dopaminergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4387-96	11.5	39
65	Neurotensin regulates intracellular calcium in ventral tegmental area astrocytes: evidence for the involvement of multiple receptors. <i>Neuroscience</i> , 2000 , 97, 293-302	3.9	38
64	Neuronal vulnerability in Parkinson disease: Should the focus be on axons and synaptic terminals?. <i>Movement Disorders</i> , 2019 , 34, 1406-1422	7	37
63	Ligand- and cell-dependent determinants of internalization and cAMP modulation by delta opioid receptor (DOR) agonists. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 1529-46	10.3	37
62	Evaluation of D1 and D2 dopamine receptor segregation in the developing striatum using BAC transgenic mice. <i>PLoS ONE</i> , 2013 , 8, e67219	3.7	36
61	Nestin-expressing neural stem cells identified in the scar following myocardial infarction. <i>Journal of Cellular Physiology</i> , 2005 , 204, 51-62	7	36
60	Dynamic SERS nanosensor for neurotransmitter sensing near neurons. <i>Faraday Discussions</i> , 2017 , 205, 387-407	3.6	35
59	Bidirectional regulation of dopamine D2 and neurotensin NTS1 receptors in dopamine neurons. <i>European Journal of Neuroscience</i> , 2006 , 24, 2789-800	3.5	35
58	On cotransmission & neurotransmitter phenotype plasticity. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007 , 7, 138-46		35
57	Presynaptic action of neurotensin on cultured ventral tegmental area dopaminergic neurones. <i>Neuroscience</i> , 2002 , 111, 177-87	3.9	34
56	Presynaptic action of neurotensin on dopamine release through inhibition of D(2) receptor function. <i>BMC Neuroscience</i> , 2009 , 10, 96	3.2	33
55	Normal biogenesis and cycling of empty synaptic vesicles in dopamine neurons of vesicular monoamine transporter 2 knockout mice. <i>Molecular Biology of the Cell</i> , 2005 , 16, 306-15	3.5	33
54	Contribution of Kv1.2 voltage-gated potassium channel to D2 autoreceptor regulation of axonal dopamine overflow. <i>Journal of Biological Chemistry</i> , 2011 , 286, 9360-72	5.4	32

53	Use of TH-EGFP transgenic mice as a source of identified dopaminergic neurons for physiological studies in postnatal cell culture. <i>Journal of Neuroscience Methods</i> , 2005 , 146, 1-12	3	32
52	Glutamate Cotransmission in Cholinergic, GABAergic and Monoamine Systems: Contrasts and Commonalities. <i>Frontiers in Neural Circuits</i> , 2018 , 12, 113	3.5	32
51	Increased vulnerability of nigral dopamine neurons after expansion of their axonal arborization size through D2 dopamine receptor conditional knockout. <i>PLoS Genetics</i> , 2019 , 15, e1008352	6	30
50	The endocannabinoid 2-arachidonoylglycerol inhibits long-term potentiation of glutamatergic synapses onto ventral tegmental area dopamine neurons in mice. <i>European Journal of Neuroscience</i> , 2011 , 33, 1751-60	3.5	29
49	Sirtuin 3 rescues neurons through the stabilisation of mitochondrial biogenetics in the virally-expressing mutant β synuclein rat model of parkinsonism. <i>Neurobiology of Disease</i> , 2017 , 106, 133-146	7.5	28
48	Postsynaptic injection of calcium-independent phospholipase A2 inhibitors selectively increases AMPA receptor-mediated synaptic transmission. <i>Hippocampus</i> , 2004 , 14, 319-25	3.5	28
47	Ultrastructural characterization of the mesostriatal dopamine innervation in mice, including two mouse lines of conditional VGLUT2 knockout in dopamine neurons. <i>European Journal of Neuroscience</i> , 2012 , 35, 527-38	3.5	27
46	Expression of D2 receptor isoforms in cultured neurons reveals equipotent autoreceptor function. <i>Neuropharmacology</i> , 2006 , 50, 595-605	5.5	27
45	Block Copolymer Brush Layer-Templated Gold Nanoparticles on Nanofibers for Surface-Enhanced Raman Scattering Optophysiology. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4373-4384	9.5	26
44	Comparative analysis of Parkinson's disease-associated genes in mice reveals altered survival and bioenergetics of Parkin-deficient dopamine neurons. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9580-9593	5.4	23
43	Chronic activation of the D2 dopamine autoreceptor inhibits synaptogenesis in mesencephalic dopaminergic neurons in vitro. <i>European Journal of Neuroscience</i> , 2008 , 28, 1480-90	3.5	23
42	M3-like muscarinic receptors mediate Ca ²⁺ influx in rat mesencephalic GABAergic neurones through a protein kinase C-dependent mechanism. <i>Neuropharmacology</i> , 2005 , 48, 796-809	5.5	22
41	Neuronal calcium sensor-1 deletion in the mouse decreases motivation and dopamine release in the nucleus accumbens. <i>Behavioural Brain Research</i> , 2016 , 301, 213-25	3.4	21
40	Neurotensin inhibits glutamate-mediated synaptic inputs onto ventral tegmental area dopamine neurons through the release of the endocannabinoid 2-AG. <i>Neuropharmacology</i> , 2012 , 63, 983-91	5.5	21
39	Metabolomics and in-silico analysis reveal critical energy deregulations in animal models of Parkinson's disease. <i>PLoS ONE</i> , 2013 , 8, e69146	3.7	20
38	Contact-dependent regulation of N-type calcium channel subunits during synaptogenesis. <i>Journal of Neurobiology</i> , 1998 , 35, 198-208		20
37	Segregation of dopamine and glutamate release sites in dopamine neuron axons: regulation by striatal target cells. <i>FASEB Journal</i> , 2019 , 33, 400-417	0.9	19
36	Axonal Segregation and Role of the Vesicular Glutamate Transporter VGLUT3 in Serotonin Neurons. <i>Frontiers in Neuroanatomy</i> , 2016 , 10, 39	3.6	19

35	Oleic Acid in the Ventral Tegmental Area Inhibits Feeding, Food Reward, and Dopamine Tone. <i>Neuropsychopharmacology</i> , 2018 , 43, 607-616	8.7	18
34	Impact of basic FGF expression in astrocytes on dopamine neuron synaptic function and development. <i>European Journal of Neuroscience</i> , 2006 , 23, 608-16	3.5	18
33	Regulation of rat mesencephalic GABAergic neurones through muscarinic receptors. <i>Journal of Physiology</i> , 2004 , 556, 429-45	3.9	17
32	Unaltered striatal dopamine release levels in young Parkin knockout, Pink1 knockout, DJ-1 knockout and LRRK2 R1441G transgenic mice. <i>PLoS ONE</i> , 2014 , 9, e94826	3.7	17
31	Histamine H Receptors Decrease Dopamine Release in the Ventral Striatum by Reducing the Activity of Striatal Cholinergic Interneurons. <i>Neuroscience</i> , 2018 , 376, 188-203	3.9	13
30	A novel dopamine transporter transgenic mouse line for identification and purification of midbrain dopaminergic neurons reveals midbrain heterogeneity. <i>European Journal of Neuroscience</i> , 2015 , 42, 2438-54	3.5	13
29	Chronic activation of the D2 autoreceptor inhibits both glutamate and dopamine synapse formation and alters the intrinsic properties of mesencephalic dopamine neurons in vitro. <i>European Journal of Neuroscience</i> , 2010 , 32, 1433-41	3.5	13
28	Optimizing NTS-polyplex as a tool for gene transfer to cultured dopamine neurons. <i>PLoS ONE</i> , 2012 , 7, e51341	3.7	13
27	MCL-1 maintains neuronal survival by enhancing mitochondrial integrity and bioenergetic capacity under stress conditions. <i>Cell Death and Disease</i> , 2020 , 11, 321	9.8	11
26	Characterization of a Human Point Mutation of VGLUT3 (p.A211V) in the Rodent Brain Suggests a Nonuniform Distribution of the Transporter in Synaptic Vesicles. <i>Journal of Neuroscience</i> , 2017 , 37, 4181-4199	6.6	9
25	VGLUT2 Expression in Dopamine Neurons Contributes to Postlesional Striatal Reinnervation. <i>Journal of Neuroscience</i> , 2020 , 40, 8262-8275	6.6	9
24	The 21-aminosteroid U74389G prevents the down-regulation and decrease in activity of CYP1A1, 1A2 and 3A6 induced by an inflammatory reaction. <i>Biochemical Pharmacology</i> , 2006 , 71, 366-76	6	7
23	Glycine and D-serine improve the negative symptoms of schizophrenia. <i>Evidence-Based Mental Health</i> , 2005 , 8, 82	11.1	7
22	Pre- and postsynaptic actions of nifedipine at an identified cholinergic central synapse of Aplysia. <i>Pflügers Archiv European Journal of Physiology</i> , 1992 , 422, 193-7	4.6	7
21	Perturbation of synaptic vesicle delivery during neurotransmitter release triggered independently of calcium influx. <i>Journal of Physiology</i> , 2002 , 542, 779-93	3.9	6
20	Regulatory Roles for GTP-Binding Proteins in Nerve Terminals. <i>Seminars in Neuroscience</i> , 1998 , 9, 220-231		5
19	Calcium-dependent, D2 receptor-independent induction of c-fos by haloperidol in dopamine neurons. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2003 , 367, 480-9	3.4	5
18	Characterization of the intestinal microbiota during infection in a mouse model of infection-triggered Parkinson's disease. <i>Gut Microbes</i> , 2020 , 12, 1-11	8.8	5

17	Amphetamine maintenance therapy during intermittent cocaine self-administration in rats attenuates psychomotor and dopamine sensitization and reduces addiction-like behavior. <i>Neuropsychopharmacology</i> , 2021 , 46, 305-315	8.7	5
16	Homeostatic regulation of excitatory synapses on striatal medium spiny neurons expressing the D2 dopamine receptor. <i>Brain Structure and Function</i> , 2016 , 221, 2093-107	4	4
15	Xanthine derivatives IBMX and S-9977-2 potentiate transmission at an Aplysia central cholinergic synapse. <i>Brain Research</i> , 1992 , 586, 78-85	3.7	4
14	Dopaminergic neurons establish a distinctive axonal arbor with a majority of non-synaptic terminals		4
13	Dopaminergic neurons establish a distinctive axonal arbor with a majority of non-synaptic terminals. <i>FASEB Journal</i> , 2021 , 35, e21791	0.9	4
12	Engineering immunoproteasome-expressing mesenchymal stromal cells: A potent cellular vaccine for lymphoma and melanoma in mice.. <i>Cell Reports Medicine</i> , 2021 , 2, 100455	18	3
11	Implication of synaptotagmins 4 and 7 in activity-dependent somatodendritic dopamine release		3
10	Neonatal 6-OHDA lesion of the SNc induces striatal compensatory sprouting from surviving SNc dopaminergic neurons without VTA contribution. <i>European Journal of Neuroscience</i> , 2021 , 54, 6618-6632 ^{3,5}		3
9	Postnatally Derived Ventral Midbrain Dopamine Neuron Cultures as a Model System for Studying Neurotoxicity and Parkinson's Disease 2008 , 491-504		2
8	A blueprint for performing SERS measurements in tissue with plasmonic nanofibers. <i>Journal of Chemical Physics</i> , 2020 , 153, 124702	3.9	2
7	Amphetamine Maintenance Therapy During Intermittent Cocaine Self-Administration in Rats: Reduction of Addiction-like Behavior is Associated with Attenuation of Psychomotor and Dopamine Sensitization ¹		1
6	The calcium sensor synaptotagmin-1 is critical for phasic axonal dopamine release in the striatum and mesencephalon, but is dispensable for basic motor behaviors in mice		1
5	Implication of synaptotagmins 4 and 7 in activity-dependent somatodendritic dopamine release in the ventral midbrain.. <i>Open Biology</i> , 2022 , 12, 210339	7	0
4	Antipsychotiques, dopamine et glutamate, une relation à établir. <i>Sante Mentale Au Quebec</i> , 2007 , 32, 191-199	0.2	
3	Glutamate Co-Release by Monoamine Neurons 2009 , 1-18		
2	The challenging diversity of neurons in the ventral tegmental area: A commentary of Miranda-Barrientos, J. et al., <i>Eur J Neurosci</i> 2021. <i>European Journal of Neuroscience</i> , 2021 , 54, 4085	3.5	
1	On cell loss in Parkinson's disease, and the citations that followed.. <i>Npj Parkinson's Disease</i> , 2022 , 8, 38	9.7	