

Louis ric Trudeau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
105	On cell loss in Parkinson's disease, and the citations that followed.. <i>Npj Parkinsons Disease</i> , 2022 , 8, 38	9.7	
104	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
103	The challenging diversity of neurons in the ventral tegmental area: A commentary of Miranda-Barrientos, J. et al., Eur J Neurosci 2021. <i>European Journal of Neuroscience</i> , 2021 , 54, 4085	3.5	
102	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
101	Dopaminergic neurons establish a distinctive axonal arbor with a majority of non-synaptic terminals. <i>FASEB Journal</i> , 2021 , 35, e21791	0.9	4
100	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}	3.5	3
99	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
98	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
97	A blueprint for performing SERS measurements in tissue with plasmonic nanofibers. <i>Journal of Chemical Physics</i> , 2020 , 153, 124702	3.9	2
96	VGLUT2 Expression in Dopamine Neurons Contributes to Postlesional Striatal Reinnervation. <i>Journal of Neuroscience</i> , 2020 , 40, 8262-8275	6.6	9
95	Neuronal vulnerability in Parkinson disease: Should the focus be on axons and synaptic terminals?. <i>Movement Disorders</i> , 2019 , 34, 1406-1422	7	37
94	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
93	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
92	Intestinal infection triggers Parkinson's disease-like symptoms in Pink1 mice. <i>Nature</i> , 2019 , 571, 565-569 ^{50.4}	50.4	201
91	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
90	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

89	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
88	Oleic Acid in the Ventral Tegmental Area Inhibits Feeding, Food Reward, and Dopamine Tone. <i>Neuropsychopharmacology</i> , 2018 , 43, 607-616	8.7	18
87	On Cell Loss and Selective Vulnerability of Neuronal Populations in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018 , 9, 455	4.1	137
86	Glutamate Cotransmission in Cholinergic, GABAergic and Monoamine Systems: Contrasts and Commonalities. <i>Frontiers in Neural Circuits</i> , 2018 , 12, 113	3.5	32
85	Dynamic SERS nanosensor for neurotransmitter sensing near neurons. <i>Faraday Discussions</i> , 2017 , 205, 387-407	3.6	35
84	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
83	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
82	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
81	Parkinson's Disease-Related Proteins PINK1 and Parkin Repress Mitochondrial Antigen Presentation. <i>Cell</i> , 2016 , 166, 314-327	56.2	281
80	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
79	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
78	Human mesenchymal stromal cell-secreted lactate induces M2-macrophage differentiation by metabolic reprogramming. <i>Oncotarget</i> , 2016 , 7, 30193-210	3.3	82
77	Axonal Segregation and Role of the Vesicular Glutamate Transporter VGLUT3 in Serotonin Neurons. <i>Frontiers in Neuroanatomy</i> , 2016 , 10, 39	3.6	19
76	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
75	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
74	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
73	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
72	The multilingual nature of dopamine neurons. <i>Progress in Brain Research</i> , 2014 , 211, 141-64	2.9	83

71	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
70	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
69	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
68	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
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	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
65	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
64	Glutamate corelease promotes growth and survival of midbrain dopamine neurons. <i>Journal of Neuroscience</i> , 2012 , 32, 17477-91	6.6	58
63	Optimizing NTS-polyplex as a tool for gene transfer to cultured dopamine neurons. <i>PLoS ONE</i> , 2012 , 7, e51341	3.7	13
62	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
61	From glutamate co-release to vesicular synergy: vesicular glutamate transporters. <i>Nature Reviews Neuroscience</i> , 2011 , 12, 204-16	13.5	257
60	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
59	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
58	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
57	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
56	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
55	Role of Kv1 potassium channels in regulating dopamine release and presynaptic D2 receptor function. <i>PLoS ONE</i> , 2011 , 6, e20402	3.7	52
54	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

53	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
52	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
51	Presynaptic action of neurotensin on dopamine release through inhibition of D(2) receptor function. <i>BMC Neuroscience</i> , 2009 , 10, 96	3.2	33
50	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
49	Glutamate Co-Release by Monoamine Neurons 2009 , 1-18		
48	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
47	Glutamate in dopamine neurons: synaptic versus diffuse transmission. <i>Brain Research Reviews</i> , 2008 , 58, 290-302		89
46	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
45	Enhanced glutamatergic phenotype of mesencephalic dopamine neurons after neonatal 6-hydroxydopamine lesion. <i>Neuroscience</i> , 2008 , 156, 59-70	3.9	64
44	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
43	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
42	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
41	Postnatally Derived Ventral Midbrain Dopamine Neuron Cultures as a Model System for Studying Neurotoxicity and Parkinson's Disease 2008 , 491-504		2
40	Antipsychotiques, dopamine et glutamate, une relation à établir. <i>Sante Mentale Au Quebec</i> , 2007 , 32, 191-199	0.2	
39	On cotransmission & neurotransmitter phenotype plasticity. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007 , 7, 138-46		35
38	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
37	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
36	Expression of D2 receptor isoforms in cultured neurons reveals equipotent autoreceptor function. <i>Neuropharmacology</i> , 2006 , 50, 595-605	5.5	27

35	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
34	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
33	Basal somatodendritic dopamine release requires snare proteins. <i>Journal of Neurochemistry</i> , 2006 , 96, 1740-9	6	41
32	Coordinated action of NSF and PKC regulates GABAB receptor signaling efficacy. <i>EMBO Journal</i> , 2006 , 25, 2698-709	13	41
31	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
30	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
29	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
28	Nestin-expressing neural stem cells identified in the scar following myocardial infarction. <i>Journal of Cellular Physiology</i> , 2005 , 204, 51-62	7	36
27	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
26	Glycine and D-serine improve the negative symptoms of schizophrenia. <i>Evidence-Based Mental Health</i> , 2005 , 8, 82	11.1	7
25	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
24	Regulation of rat mesencephalic GABAergic neurones through muscarinic receptors. <i>Journal of Physiology</i> , 2004 , 556, 429-45	3.9	17
23	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
22	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
21	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
20	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
19	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
18	Beta-lactamase protein fragment complementation assays as in vivo and in vitro sensors of protein interactions. <i>Nature Biotechnology</i> , 2002 , 20, 619-22	44.5	362

17	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
16	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
15	Presynaptic action of neurotensin on cultured ventral tegmental area dopaminergic neurones. <i>Neuroscience</i> , 2002 , 111, 177-87	3.9	34
14	GDNF enhances the synaptic efficacy of dopaminergic neurons in culture. <i>European Journal of Neuroscience</i> , 2000 , 12, 3172-80	3.5	127
13	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
12	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
11	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
10	Regulatory Roles for GTP-Binding Proteins in Nerve Terminals. <i>Seminars in Neuroscience</i> , 1998 , 9, 220-231		5
9	Contact-dependent regulation of N-type calcium channel subunits during synaptogenesis. <i>Journal of Neurobiology</i> , 1998 , 35, 198-208		20
8	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
7	Direct modulation of the secretory machinery underlies PKA-dependent synaptic facilitation in hippocampal neurons. <i>Neuron</i> , 1996 , 17, 789-97	13.9	200
6	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
5	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
4	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
3	Dopaminergic neurons establish a distinctive axonal arbor with a majority of non-synaptic terminals		4
2	Implication of synaptotagmins 4 and 7 in activity-dependent somatodendritic dopamine release		3
1	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