

Claudio Da Cunha

List of Publications by Year in descending order

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111
papers

4,650
citations

81900

39
h-index

110387

64
g-index

114
all docs

114
docs citations

114
times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurotransmitter receptors involved in post-training memory processing by the amygdala, medial septum, and hippocampus of the rat. <i>Behavioral and Neural Biology</i> , 1992, 58, 16-26.	2.2	358
2	Emotional, cognitive and neurochemical alterations in a premotor stage model of Parkinson's disease. <i>Neuroscience</i> , 2008, 156, 830-840.	2.3	269
3	Comparison of bilaterally 6-OHDA- and MPTP-lesioned rats as models of the early phase of Parkinson's disease: Histological, neurochemical, motor and memory alterations. <i>Journal of Neuroscience Methods</i> , 2005, 148, 78-87.	2.5	181
4	A simple and fast densitometric method for the analysis of tyrosine hydroxylase immunoreactivity in the substantia nigra pars compacta and in the ventral tegmental area. <i>Brain Research Protocols</i> , 2005, 16, 58-64.	1.6	157
5	Impaired learning in a spatial working memory version and in a cued version of the water maze in rats with MPTP-induced mesencephalic dopaminergic lesions. <i>Brain Research Bulletin</i> , 2002, 58, 41-47.	3.0	144
6	Role of brainstem serotonin in analgesia produced by low-intensity exercise on neuropathic pain after sciatic nerve injury in mice. <i>Pain</i> , 2015, 156, 2595-2606.	4.2	111
7	Memory disruption in rats with nigral lesions induced by MPTP: a model for early Parkinson's disease amnesia. <i>Behavioural Brain Research</i> , 2001, 124, 9-18.	2.2	109
8	The lesion of the rat substantia nigra pars compacta dopaminergic neurons as a model for Parkinson's disease memory disabilities. <i>Cellular and Molecular Neurobiology</i> , 2002, 22, 227-237.	3.3	103
9	Effects of caffeine on learning and memory in rats tested in the Morris water maze. <i>Brazilian Journal of Medical and Biological Research</i> , 2002, 35, 1201-1208.	1.5	98
10	Caffeine reverses the memory disruption induced by intra-nigral MPTP-injection in rats. <i>Brain Research Bulletin</i> , 2001, 55, 101-106.	3.0	92
11	The effect of caffeine in animal models of learning and memory. <i>European Journal of Pharmacology</i> , 1999, 373, 135-140.	3.5	91
12	Pharmacological Evaluation of Ricinine, a Central Nervous System Stimulant Isolated from <i>Ricinus communis</i> . <i>Pharmacology Biochemistry and Behavior</i> , 1999, 63, 367-375.	2.9	90
13	Evidence for the substantia nigra pars compacta as an essential component of a memory system independent of the hippocampal memory system. <i>Neurobiology of Learning and Memory</i> , 2003, 79, 236-242.	1.9	87
14	PPAR- α agonist fenofibrate protects against the damaging effects of MPTP in a rat model of Parkinson's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2014, 53, 35-44.	4.8	86
15	Effects of environmentally relevant concentrations of the anti-inflammatory drug diclofenac in freshwater fish <i>Rhamdia quelen</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 291-300.	6.0	77
16	Neuroprotective effects of peroxisome proliferator-activated receptor alpha and gamma agonists in model of parkinsonism induced by intranigral 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine. <i>Behavioural Brain Research</i> , 2014, 274, 390-399.	2.2	75
17	Experiments Suggesting a Role for Nitric Oxide in the Hippocampus in Memory Processes. <i>Neurobiology of Learning and Memory</i> , 1995, 63, 113-115.	1.9	69
18	The COX-2 inhibitor parecoxib produces neuroprotective effects in MPTP-lesioned rats. <i>European Journal of Pharmacology</i> , 2007, 560, 163-175.	3.5	64

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19	Involvement of mast cells in a mouse model of postoperative pain. <i>European Journal of Pharmacology</i> , 2011, 672, 88-95.	3.5	63
20	Memory Impairment Induced by Sodium Fluoride is Associated with Changes in Brain Monoamine Levels. <i>Neurotoxicity Research</i> , 2011, 19, 55-62.	2.7	63
21	Induction of depressive-like behavior by intranigral 6-OHDA is directly correlated with deficits in striatal dopamine and hippocampal serotonin. <i>Behavioural Brain Research</i> , 2014, 259, 70-77.	2.2	62
22	Neuroprotective and antidepressant-like effects of melatonin in a rotenone-induced Parkinson's disease model in rats. <i>Brain Research</i> , 2014, 1593, 95-105.	2.2	62
23	Paracetamol causes endocrine disruption and hepatotoxicity in male fish <i>Rhamdia quelen</i> after subchronic exposure. <i>Environmental Toxicology and Pharmacology</i> , 2017, 53, 111-120.	4.0	62
24	Evaluation of the face validity of reserpine administration as an animal model of depression's Parkinson's disease association. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2002, 26, 879-883.	4.8	60
25	Antagonistic interaction between adenosine A2A and dopamine D2 receptors modulates the social recognition memory in reserpine-treated rats. <i>Behavioural Pharmacology</i> , 2005, 16, 209-218.	1.7	54
26	Both the dorsal hippocampus and the dorsolateral striatum are needed for rat navigation in the Morris water maze. <i>Behavioural Brain Research</i> , 2012, 226, 171-178.	2.2	54
27	The roles of the nucleus accumbens core, dorsomedial striatum, and dorsolateral striatum in learning: Performance and extinction of Pavlovian fear-conditioned responses and instrumental avoidance responses. <i>Neurobiology of Learning and Memory</i> , 2014, 109, 27-36.	1.9	52
28	Toward sophisticated basal ganglia neuromodulation: Review on basal ganglia deep brain stimulation. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 58, 186-210.	6.1	52
29	Microinfusions of Flumazenil into the Basolateral but Not the Central Nucleus of the Amygdala Enhance Memory Consolidation in Rats. <i>Neurobiology of Learning and Memory</i> , 1999, 72, 1-7.	1.9	51
30	Post-training down-regulation of memory consolidation by a GABA-A mechanism in the amygdala modulated by endogenous benzodiazepines. <i>Behavioral and Neural Biology</i> , 1990, 54, 105-109.	2.2	49
31	Habituation and inhibitory avoidance training alter brain regional levels of benzodiazepine-like molecules and are affected by intracerebral flumazenil microinjection. <i>Brain Research</i> , 1991, 548, 74-80.	2.2	49
32	L-Dopa restores striatal dopamine level but fails to reverse MPTP-induced memory deficits in rats. <i>International Journal of Neuropsychopharmacology</i> , 2001, 4, 361-70.	2.1	48
33	Lesion of the substantia nigra, pars compacta impairs delayed alternation in a Y-maze in rats. <i>Experimental Neurology</i> , 2005, 192, 134-141.	4.1	48
34	Subchronic fluoride intake induces impairment in habituation and active avoidance tasks in rats. <i>European Journal of Pharmacology</i> , 2008, 579, 196-201.	3.5	47
35	Learning processing in the basal ganglia: A mosaic of broken mirrors. <i>Behavioural Brain Research</i> , 2009, 199, 157-170.	2.2	47
36	The role of the basal ganglia in motivated behavior. <i>Reviews in the Neurosciences</i> , 2012, 23, 747-67.	2.9	47

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37	Spironolactone and low-dose dexamethasone enhance extinction of contextual fear conditioning. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 1229-1235.	4.8	44
38	Endogenous benzodiazepine modulation of memory processes. <i>Neuroscience and Biobehavioral Reviews</i> , 1990, 14, 419-424.	6.1	43
39	The "Anxiety State" and Its Relation with Rat Models of Memory and Habituation. <i>Neurobiology of Learning and Memory</i> , 1999, 72, 78-94.	1.9	43
40	The role of nucleus accumbens and dorsolateral striatal D2 receptors in active avoidance conditioning. <i>Neurobiology of Learning and Memory</i> , 2011, 96, 254-262.	1.9	42
41	Roles of D1-like dopamine receptors in the nucleus accumbens and dorsolateral striatum in conditioned avoidance responses. <i>Psychopharmacology</i> , 2012, 219, 159-169.	3.1	42
42	Behavioural and neurochemical effects of phosphatidylserine in MPTP lesion of the substantia nigra of rats. <i>European Journal of Pharmacology</i> , 2004, 484, 225-233.	3.5	39
43	Naltrexone potentiates the anxiolytic effects of chlordiazepoxide in rats exposed to novel environments. <i>Psychopharmacology</i> , 1999, 147, 168-173.	3.1	37
44	Is the unilateral lesion of the left substantia nigra pars compacta sufficient to induce working memory impairment in rats?. <i>Neurobiology of Learning and Memory</i> , 2004, 82, 150-158.	1.9	36
45	Hemiparkinsonian rats rotate toward the side with the weaker dopaminergic neurotransmission. <i>Behavioural Brain Research</i> , 2008, 189, 364-372.	2.2	36
46	Behavioral, Neurochemical and Histological Alterations Promoted by Bilateral Intranigral Rotenone Administration: A New Approach for an Old Neurotoxin. <i>Neurotoxicity Research</i> , 2012, 21, 291-301.	2.7	36
47	REM sleep deprivation generates cognitive and neurochemical disruptions in the intranigral rotenone model of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2013, 91, 1508-1516.	2.9	36
48	Olfactory impairment in the rotenone model of Parkinson's disease is associated with bulbar dopaminergic D2 activity after REM sleep deprivation. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 383.	3.7	36
49	Failure of estrogen to protect the substantia nigra pars compacta of female rats from lesion induced by 6-hydroxydopamine. <i>Brain Research</i> , 2003, 986, 200-205.	2.2	35
50	Anxiety-like behavior induced by 6-OHDA animal model of Parkinson's disease may be related to a dysregulation of neurotransmitter systems in brain areas related to anxiety. <i>Behavioural Brain Research</i> , 2019, 371, 111981.	2.2	35
51	Evidence that conditioned avoidance responses are reinforced by positive prediction errors signaled by tonic striatal dopamine. <i>Behavioural Brain Research</i> , 2013, 241, 112-119.	2.2	32
52	The nonsteroidal antiinflammatory drug piroxicam reverses the onset of depressive-like behavior in 6-OHDA animal model of Parkinson's disease. <i>Neuroscience</i> , 2015, 300, 246-253.	2.3	28
53	Exercise Improves Cognitive Impairment and Dopamine Metabolism in MPTP-Treated Mice. <i>Neurotoxicity Research</i> , 2016, 29, 118-125.	2.7	28
54	Ricinine-Elicited Seizures. <i>Pharmacology Biochemistry and Behavior</i> , 2000, 65, 577-583.	2.9	27

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55	Decreased synaptic plasticity in the medial prefrontal cortex underlies short-term memory deficits in 6-OHDA-lesioned rats. <i>Behavioural Brain Research</i> , 2016, 301, 43-54.	2.2	27
56	Oscillations in cortico-basal ganglia circuits: implications for Parkinson's disease and other neurologic and psychiatric conditions. <i>Journal of Neurophysiology</i> , 2019, 122, 203-231.	1.8	27
57	Place learning strategy of substantia nigra pars compacta-lesioned rats.. <i>Behavioral Neuroscience</i> , 2006, 120, 1279-1284.	1.2	26
58	Phosphatidylserine reverses reserpine-induced amnesia. <i>European Journal of Pharmacology</i> , 2000, 404, 161-167.	3.5	25
59	Intranigral LPS Administration Produces Dopamine, Glutathione but not Behavioral Impairment in Comparison to MPTP and 6-OHDA Neurotoxin Models of Parkinson's Disease. <i>Neurochemical Research</i> , 2010, 35, 1620-1627.	3.3	25
60	REM Sleep Deprivation Reverses Neurochemical and Other Depressive-Like Alterations Induced by Olfactory Bulbectomy. <i>Molecular Neurobiology</i> , 2015, 51, 349-360.	4.0	25
61	Effect of various training procedures on performance in an elevated plus-maze: Possible relation with brain regional levels of benzodiazepine-like molecules. <i>Pharmacology Biochemistry and Behavior</i> , 1992, 43, 677-681.	2.9	24
62	Memory facilitation by post-training intraperitoneal, intracerebroventricular and intra-amygdala injection of Ro 5-4864. <i>Brain Research</i> , 1991, 544, 133-136.	2.2	23
63	Intra-nigral MPTP lesion in rats: Behavioral and autoradiography studies. <i>Experimental Neurology</i> , 2005, 195, 322-329.	4.1	23
64	Amino acid and monoamine alterations in the cerebral cortex and hippocampus of mice submitted to ricinine-induced seizures. <i>Pharmacology Biochemistry and Behavior</i> , 2002, 72, 779-786.	2.9	22
65	Putative role of monoamines in the antidepressant-like mechanism induced by striatal MT2 blockade. <i>Behavioural Brain Research</i> , 2014, 275, 136-145.	2.2	22
66	The brain decade in debate: II. Panic or anxiety? From animal models to a neurobiological basis. <i>Brazilian Journal of Medical and Biological Research</i> , 2001, 34, 145-154.	1.5	21
67	Pre-training to find a hidden platform in the Morris water maze can compensate for a deficit to find a cued platform in a rat model of Parkinson's disease. <i>Neurobiology of Learning and Memory</i> , 2007, 87, 451-463.	1.9	21
68	Antidepressant-like effect of the novel MAO inhibitor 2-(3,4-dimethoxy-phenyl)-4,5-dihydro-1H-imidazole (2-DMPI) in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012, 39, 31-39.	4.8	21
69	Unraveling a new circuitry for sleep regulation in Parkinson's disease. <i>Neuropharmacology</i> , 2016, 108, 161-171.	4.1	21
70	Antidepressant-like effect of celecoxib piroxicam in rat models of depression. <i>Journal of Neural Transmission</i> , 2014, 121, 671-82.	2.8	20
71	Dopaminergic D2 receptor is a key player in the substantia nigra pars compacta neuronal activation mediated by REM sleep deprivation. <i>Neuropharmacology</i> , 2014, 76, 118-126.	4.1	20
72	Amphetamine and pentylenetetrazole given post-trial 1 enhance one-trial tolerance to the anxiolytic effect of diazepam in the elevated plus-maze in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2006, 30, 1394-1402.	4.8	19

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73	Ketamine reversed short-term memory impairment and depressive-like behavior in animal model of Parkinson's disease. <i>Brain Research Bulletin</i> , 2021, 168, 63-73.	3.0	18
74	Intrastriatal injection of hypoxanthine reduces striatal serotonin content and impairs spatial memory performance in rats. <i>Metabolic Brain Disease</i> , 2007, 22, 67-76.	2.9	17
75	Selegiline Reverses A β 25-Induced Cognitive Deficit in Male Mice. <i>Neurochemical Research</i> , 2013, 38, 2287-2294.	3.3	17
76	Ethanol Exposure History and Alcoholic Reward Differentially Alter Dopamine Release in the Nucleus Accumbens to a Reward-Predictive Cue. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1051-1061.	2.4	17
77	Functional disconnection of the substantia nigra pars compacta from the pedunculopontine nucleus impairs learning of a conditioned avoidance task. <i>Neurobiology of Learning and Memory</i> , 2010, 94, 229-239.	1.9	16
78	Allopregnanolone Decreases Evoked Dopamine Release Differently in Rats by Sex and Estrous Stage. <i>Frontiers in Pharmacology</i> , 2020, 11, 608887.	3.5	16
79	Cellular prion protein is present in dopaminergic neurons and modulates the dopaminergic system. <i>European Journal of Neuroscience</i> , 2014, 40, 2479-2486.	2.6	15
80	Diazepam Inhibits Electrically Evoked and Tonic Dopamine Release in the Nucleus Accumbens and Reverses the Effect of Amphetamine. <i>ACS Chemical Neuroscience</i> , 2017, 8, 300-309.	3.5	15
81	Anxiogenic effects of the intraamygdala injection of flumazenil, a benzodiazepine receptor antagonist. <i>Functional Neurology</i> , 1992, 7, 401-5.	1.3	15
82	The role of the ventrolateral caudoputamen in predatory hunting. <i>Physiology and Behavior</i> , 2012, 105, 893-898.	2.1	14
83	Post-Training Memory Processing in Amygdala, Septum and Hippocampus: Role of Benzodiazepine/GABA _A Receptors, and their Interaction with other Neurotransmitter Systems. <i>Reviews in the Neurosciences</i> , 1992, 3, 11-24.	2.9	12
84	The brain decade in debate: III. Neurobiology of emotion. <i>Brazilian Journal of Medical and Biological Research</i> , 2001, 34, 283-293.	1.5	11
85	Effects of SR141716A on Cognitive and Depression-Related Behavior in an Animal Model of Premotor Parkinson's Disease. <i>Parkinson's Disease</i> , 2010, 2010, 1-6.	1.1	11
86	Phasic dopamine release identification using convolutional neural network. <i>Computers in Biology and Medicine</i> , 2019, 114, 103466.	7.0	11
87	Benzodiazepines in the brain. <i>Molecular Neurobiology</i> , 1992, 6, 377-386.	4.0	9
88	Effects of ventrolateral striatal inactivation on predatory hunting. <i>Physiology and Behavior</i> , 2007, 90, 669-673.	2.1	9
89	Activation of postsynaptic D2 dopamine receptors in the rat dorsolateral striatum prevents the amnesic effect of systemically administered neuroleptics. <i>Behavioural Brain Research</i> , 2015, 281, 283-289.	2.2	9
90	Diazepam attenuates the effects of cocaine on locomotion, 50kHz ultrasonic vocalizations and phasic dopamine in the nucleus accumbens of rats. <i>British Journal of Pharmacology</i> , 2022, 179, 1565-1577.	5.4	9

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91	Nicotine Induces Sensitization of Turning Behavior in 6-Hydroxydopamine Lesioned Rats. <i>Neurotoxicity Research</i> , 2009, 15, 359-366.	2.7	8
92	Microdialysis study of striatal dopamine in MPTP-hemilesioned rats challenged with apomorphine and amphetamine. <i>Behavioural Brain Research</i> , 2010, 215, 63-70.	2.2	8
93	Diazepam blocks 50kHz ultrasonic vocalizations and stereotypies but not the increase in locomotor activity induced in rats by amphetamine. <i>Psychopharmacology</i> , 2018, 235, 1887-1896.	3.1	8
94	Neuroprotective effect of ketamine/xylazine on two rat models of Parkinson's disease. <i>Brazilian Journal of Medical and Biological Research</i> , 2007, 40, 89-96.	1.5	8
95	Modulatory effect of nano TiO ₂ on Pb in <i>Hoplias malabaricus</i> trophically exposed. <i>Environmental Toxicology and Pharmacology</i> , 2014, 38, 71-78.	4.0	7
96	Partial lesion of dopamine neurons of rat substantia nigra impairs conditioned place aversion but spares conditioned place preference. <i>Neuroscience</i> , 2017, 349, 264-277.	2.3	7
97	The mechanism of antidepressant-like effects of piroxicam in rats. <i>Journal of Pharmacology and Pharmacotherapeutics</i> , 2015, 6, 7-12.	0.4	5
98	Multiple Intranigral Unilateral LPS Infusion Protocol Generates a Persistent Cognitive Impairment without Cumulative Dopaminergic Impairment. <i>CNS and Neurological Disorders - Drug Targets</i> , 2013, 12, 1002-1010.	1.4	5
99	Cellular prion protein (PrP ^C) modulates ethanol-induced behavioral adaptive changes in mice. <i>Behavioural Brain Research</i> , 2014, 271, 325-332.	2.2	4
100	Benzodiazepine receptor ligand influences on learning: an endogenous modulatory mechanism mediated by benzodiazepines possibly of alimentary origin. <i>Memorias Do Instituto Oswaldo Cruz</i> , 1991, 86, 169-171.	1.6	3
101	In vitro evaluation of a closed-loop feedback system for dopamine concentration control. <i>Research on Biomedical Engineering</i> , 2015, 31, 26-32.	2.2	3
102	O extrato etanólico da planta tóxica brasileira, <i>Pseudocalymma elegans</i> apresenta efeitos estimulantes sobre o Sistema Nervoso Central. <i>Brazilian Journal of Veterinary Research and Animal Science</i> , 1996, 33, 82.	0.2	2
103	Preface. <i>Behavioural Brain Research</i> , 2009, 199, 1-2.	2.2	2
104	Non-motor Function of the Midbrain Dopaminergic Neurons. , 2009, , 147-160.		2
105	The combination of <i>Passiflora alata</i> and <i>Valeriana officinalis</i> on memory tasks in mice: comparison with diazepam. <i>Brazilian Archives of Biology and Technology</i> , 2010, 53, 1343-1350.	0.5	1
106	Evidence that haloperidol impairs learning and motivation scores in a probabilistic task by reducing the reward expectation. <i>Behavioural Brain Research</i> , 2020, 395, 112858.	2.2	1
107	P.1.c.009 Memory impairment induced by chronic sodium fluoride intake. <i>European Neuropsychopharmacology</i> , 2007, 17, S247.	0.7	0
108	P.1.g.049 Does the peroxisome proliferator-activated receptor (PPAR)-alpha agonist fenofibrate protect against dopaminergic neuronal death in a rat model of Parkinson's disease?. <i>European Neuropsychopharmacology</i> , 2013, 23, S217-S218.	0.7	0

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109	Mechanism for optimization of signal-to-noise ratio of dopamine release based on short-term bidirectional plasticity. Brain Research, 2017, 1667, 68-73.	2.2	0
110	Automatic Identification of Phasic Dopamine Release. , 2018, , .		0
111	UN MODELO EN RATA FRL DETERIORO COGNITIVO EN LA ENFERMEDAD DE PARKINSON. Revista Mexicana De Analisis De La Conducta, 2011, 32, .	0.1	0