Jose L Lanciego

List of Publications by Year
in descending order

128 papers	7,320 citations	50276 46 h-index	62596 80 g-index
130 all docs	130 docs citations	130 times ranked	9017 citing authors

#	Article	IF	Citations
1	Pathophysiology of the basal ganglia in Parkinson's disease. Trends in Neurosciences, 2000, 23, S8-S19.	8.6	702
2	Current concepts in neuroanatomical tracing. Progress in Neurobiology, 2000, 62, 327-351.	5.7	644
3	Functional Neuroanatomy of the Basal Ganglia. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a009621-a009621.	6.2	511
4	Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. Journal of Biological Chemistry, 2012, 287, 20851-20865.	3.4	196
5	A half century of experimental neuroanatomical tracing. Journal of Chemical Neuroanatomy, 2011, 42, 157-183.	2.1	187
6	Brain Renin-Angiotensin System and Microglial Polarization: Implications for Aging and Neurodegeneration. Frontiers in Aging Neuroscience, 2017, 9, 129.	3.4	172
7	Past, present and future of A2A adenosine receptor antagonists in the therapy of Parkinson's disease. , 2011, 132, 280-299.		170
8	Tadalafil crosses the bloodâ€“brain barrier and reverses cognitive dysfunction in a mouse model of AD. Neuropharmacology, 2013, 64, 114-123.	4.1	143
9	Binding and Signaling Studies Disclose a Potential Allosteric Site for Cannabidiol in Cannabinoid CB2 Receptors. Frontiers in Pharmacology, 2017, 8, 744.	3.5	134
10	Effective GDNF brain delivery using microspheresâ€"A promising strategy for Parkinson's disease. Journal of Controlled Release, 2009, 135, 119-126.	9.9	131
11	Expression of the mRNA coding the cannabinoid receptor 2 in the pallidal complex of<i>Macaca fascicularis</i>. Journal of Psychopharmacology, 2011, 25, 97-104.	4.0	120
12	Expression of the mRNAs encoding for the vesicular glutamate transporters 1 and 2 in the rat thalamus. Journal of Comparative Neurology, 2007, 501, 703-715.	1.6	106
13	Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB1 and CB2 receptors and relevance for Alzheimerâ€™s disease and levodopa-induced dyskinesia. Brain, Behavior, and Immunity, 2018, 67, 139-151.	4.1	99
14	Basic Pharmacological and Structural Evidence for Class A G-Protein-Coupled Receptor Heteromerization. Frontiers in Pharmacology, 2016, 7, 76.	3.5	98
15	AAV-PHP.B-Mediated Global-Scale Expression in the Mouse Nervous System Enables GBA1 Gene Therapy for Wide Protection from Synucleinopathy. Molecular Therapy, 2017, 25, 2727-2742.	8.2	98
16	Expression of angiotensinogen and receptors for angiotensin and prorenin in the monkey and human substantia nigra: an intracellular reninâ€"angiotensin system in the nigra. Brain Structure and Function, 2013, 218, 373-388.	2.3	87
17	Mitochondrial angiotensin receptors in dopaminergic neurons. Role in cell protection and aging-related vulnerability to neurodegeneration. Cell Death and Disease, 2016, 7, e2427-e2427.	6.3	87
18	Thalamic innervation of the direct and indirect basal ganglia pathways in the rat: Ipsi- and contralateral projections. Journal of Comparative Neurology, 2005, 483, 143-153.	1.6	85

#	Article	IF	Citations
19	l-DOPA-treatment in primates disrupts the expression of A2A adenosineâ€“CB1 cannabinoidâ€“D2 dopamine receptor heteromers in the caudate nucleus. Neuropharmacology, 2014, 79, 90-100.	4.1	83
20	Detection of cannabinoid receptors CB1 and CB2 within basal ganglia output neurons in macaques: changes following experimental parkinsonism. Brain Structure and Function, 2015, 220, 2721-2738.	2.3	82
21	l-DOPA disrupts adenosine A2Aâ€“cannabinoid CB1â€“dopamine D2 receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: Biochemical and behavioral studies. Experimental Neurology, 2014, 253, 180-191.	4.1	77
22	Intratelencephalic corticostriatal neurons equally excite striatonigral and striatopallidal neurons and their discharge activity is selectively reduced in experimental parkinsonism. European Journal of Neuroscience, 2008, 27, 2313-2321.	2.6	76
23	Consequences of unilateral nigrostriatal denervation on the thalamostriatal pathway in rats. European Journal of Neuroscience, 2006, 23, 2099-2108.	2.6	75
24	Striatal expression of GDNF and differential vulnerability of midbrain dopaminergic cells. European Journal of Neuroscience, 2005, 21, 1815-1827.	2.6	74
25	CB1 and GPR55 receptors are co-expressed and form heteromers in rat and monkey striatum. Experimental Neurology, 2014, 261, 44-52.	4.1	73
26	Glucocerebrosidase mutations and synucleinopathies: Toward a model of precision medicine. Movement Disorders, 2019, 34, 9-21.	3.9	73
27	Relationships between thalamostriatal neurons and pedunculopontine projections to the thalamus: a neuroanatomical tract-tracing study in the rat. Experimental Brain Research, 1999, 127, 162-170.	1.5	69
28	Thalamic innervation of striatal and subthalamic neurons projecting to the rat entopeduncular nucleus. European Journal of Neuroscience, 2004, 19, 1267-1277.	2.6	67
29	How does Parkinson's disease begin? The role of compensatory mechanisms. Trends in Neurosciences, 2004, 27, 125-127.	8.6	65
30	Interactions between Calmodulin, Adenosine A2A, and Dopamine D2 Receptors. Journal of Biological Chemistry, 2009, 284, 28058-28068.	3.4	65
31	Cannabinoid CB1 and CB2ÂReceptors, and Monoacylglycerol Lipase Gene Expression Alterations in the Basal Ganglia of Patients with Parkinson's Disease. Neurotherapeutics, 2018, 15, 459-469.	4.4	65
32	Localization of relaxinâ€3 in brain of <i>Macaca fascicularis</i>: Identification of a nucleus incertus in primate. Journal of Comparative Neurology, 2009, 517, 856-872.	1.6	64
33	Inhibition of Rho kinase mediates the neuroprotective effects of estrogen in the MPTP model of Parkinson's disease. Neurobiology of Disease, 2013, 58, 209-219.	4.4	62
34	Paracrine and Intracrine Angiotensin 1-7/Mas Receptor Axis in the Substantia Nigra of Rodents, Monkeys, and Humans. Molecular Neurobiology, 2018, 55, 5847-5867.	4.0	62
35	Re-examination of the thalamostriatal projections in the rat with retrograde tracers. Neuroscience Research, 2002, 42, 45-55.	1.9	61
36	Estrogen and angiotensin interaction in the substantia nigra. Relevance to postmenopausal Parkinson's disease. Experimental Neurology, 2010, 224, 517-526.	4.1	60

#	Article	IF	Citations
37	Changes to interneuron-driven striatal microcircuits in a rat model of Parkinson's disease. Neurobiology of Disease, 2009, 34, 545-552.	4.4	59
38	Dopamine D2 and angiotensin II type 1 receptors form functional heteromers in rat striatum. Biochemical Pharmacology, 2015, 96, 131-142.	4.4	59
39	Angiotensin Type 1 Receptor Antagonists Protect Against Alpha-Synuclein-Induced Neuroinflammation and Dopaminergic Neuron Death. Neurotherapeutics, 2018, 15, 1063-1081.	4.4	59
40	Neuroanatomical tract-tracing techniques that did go viral. Brain Structure and Function, 2020, 225, 1193-1224.	2.3	59
41	Brain delivery of microencapsulated GDNF induces functional and structural recovery in parkinsonian monkeys. Biomaterials, 2016, 110, 11-23.	11.4	58
42	Neurochemical evidence supporting dopamine D1â€"D2 receptor heteromers in the striatum of the long-tailed macaque: changes following dopaminergic manipulation. Brain Structure and Function, 2017, 222, 1767-1784.	2.3	58
43	Thalamic interaction between the input and the output systems of the basal ganglia. Journal of Chemical Neuroanatomy, 1999, 16, 187-200.	2.1	57
44	Dopamine transporter glycosylation correlates with the vulnerability of midbrain dopaminergic cells in Parkinson's disease. Neurobiology of Disease, 2009, 36, 494-508.	4.4	57
45	Sustained release of bioactive glycosylated glial cell-line derived neurotrophic factor from biodegradable polymeric microspheres. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 844-851.	4.3	50
46	Stronger Dopamine D1 Receptor-Mediated Neurotransmission in Dyskinesia. Molecular Neurobiology, 2015, 52, 1408-1420.	4.0	49
47	Expression of vesicular glutamate transporters 1 and 2 in the cells of origin of the rat thalamostriatal pathway. Journal of Chemical Neuroanatomy, 2008, 35, 101-107.	2.1	47
48	GPR40 activation leads to CREB and ERK phosphorylation in primary cultures of neurons from the mouse CNS and in human neuroblastoma cells. Hippocampus, 2014, 24, 733-739.	1.9	46
49	Cx3cr1â€deficiency exacerbates alphaâ€synucleinâ€A53T induced neuroinflammation and neurodegeneration in a mouse model of Parkinson's disease. Glia, 2018, 66, 1752-1762.	4.9	46
50	Calbindin content and differential vulnerability of midbrain efferent dopaminergic neurons in macaques. Frontiers in Neuroanatomy, 2014, 8, 146.	1.7	45
51	Detection of two different mRNAs in a single section by dual in situ hybridization: A comparison between colorimetric and fluorescent detection. Journal of Neuroscience Methods, 2007, 162, 119-128.	2.5	44
52	Location of Prorenin Receptors in Primate Substantia Nigra: Effects on Dopaminergic Cell Death. Journal of Neuropathology and Experimental Neurology, 2010, 69, 1130-1142.	1.7	44
53	Expression of angiotensinogen and receptors for angiotensin and prorenin in the rat and monkey striatal neurons and glial cells. Brain Structure and Function, 2017, 222, 2559-2571.	2.3	44
54	Alterations in Gene and Protein Expression of Cannabinoid CB2 and GPR55 Receptors in the Dorsolateral Prefrontal Cortex of Suicide Victims. Neurotherapeutics, 2018, 15, 796-806.	4.4	44

#	Article	IF	Citations
55	Use of peroxidase substrate Vector VIPÂ® for multiple staining in light microscopy. Journal of Neuroscience Methods, 1997, 74, 1-7.	2.5	42
56	Ischemia induces cell proliferation and neurogenesis in the gerbil hippocampus in response to neuronal death. Neuroscience Research, 2008, 61, 27-37.	1.9	42
57	Past, Present, and Future of the Pathophysiological Model of the Basal Ganglia. Frontiers in Neuroanatomy, 2011, 5, 39.	1.7	42
58	The basal ganglia and thalamus of the long-tailed macaque in stereotaxic coordinates. A template atlas based on coronal, sagittal and horizontal brain sections. Brain Structure and Function, 2012, 217, 613-666.	2.3	41
59	Pharmacokinetic investigation of sildenafil using positron emission tomography and determination of its effect on cerebrospinal fluid <scp>cGMP</scp> levels. Journal of Neurochemistry, 2016, 136, 403-415.	3.9	41
60	Differential organization of cortical inputs to striatal projection neurons of the matrix compartment in rats. Frontiers in Systems Neuroscience, 2015, 9, 51.	2.5	40
61	Longâ€term neuroprotection and neurorestoration by glial cellâ€derived neurotrophic factor microspheres for the treatment of Parkinson's disease. Movement Disorders, 2011, 26, 1943-1947.	3.9	39
62	A direct projection from the subthalamic nucleus to the ventral thalamus in monkeys. Neurobiology of Disease, 2010, 39, 381-392.	4.4	36
63	Disruption of a dopamine receptor complex amplifies the actions of cocaine. European Neuropsychopharmacology, 2016, 26, 1366-1377.	0.7	36
64	Adeno-Associated Viral Vectors Serotype 8 for Cell-Specific Delivery of Therapeutic Genes in the Central Nervous System. Frontiers in Neuroanatomy, 2017, 11, 2.	1.7	36
65	Complex brain circuits studied via simultaneous and permanent detection of three transported neuroanatomical tracers in the same histological section. Journal of Neuroscience Methods, 2000, 103, 127-135.	2.5	33
66	Increased vulnerability to ethanol consumption in adolescent maternal separated mice. Addiction Biology, 2016, 21, 847-858.	2.6	33
67	The number of dopaminergic cells is increased in the olfactory bulb of monkeys chronically exposed to MPTP. Synapse, 2007, 61, 1006-1012.	1.2	32
68	Dopaminergic degeneration is enhanced by chronic brain hypoperfusion and inhibited by angiotensin receptor blockage. Age, 2013, 35, 1675-1690.	3.0	32
69	Critical period for dopaminergic neuroprotection by hormonal replacement in menopausal rats. Neurobiology of Aging, 2015, 36, 1194-1208.	3.1	32
70	Multiple neuroanatomical tracing in primates. Brain Research Protocols, 1998, 2, 323-332.	1.6	31
71	Neuroprotective Potential of Adenosine A_{2A}and Cannabinoid CB₁Receptor Antagonists in an Animal Model of Parkinson Disease. Journal of Neuropathology and Experimental Neurology, 2014, 73, 414-424.	1.7	31
72	Multiple axonal tracing: simultaneous detection of three tracers in the same section. Histochemistry and Cell Biology, 1998, 110, 509.	1.7	29

#	Article	IF	Citations
73	Lesion of the centromedian thalamic nucleus in MPTPâ€treated monkeys. Movement Disorders, 2008, 23, 708-715.	3.9	29
74	Glutamatergic pallidothalamic projections and their implications in the pathophysiology of Parkinsonâ€™s disease. Neurobiology of Disease, 2008, 31, 422-432.	4.4	27
75	Distribution of Relaxinâ€3 mRNA and Immunoreactivity and RXFP3â€Binding Sites in the Brain of the Macaque, <i>Macaca fascicularis</i>. Annals of the New York Academy of Sciences, 2009, 1160, 256-258.	3.8	25
76	The search for a role of the caudal intralaminar nuclei in the pathophysiology of Parkinsonâ€™s disease. Brain Research Bulletin, 2009, 78, 55-59.	3.0	24
77	Glutamatergic and cholinergic pedunculopontine neurons innervate the thalamic parafascicular nucleus in rats: changes following experimental parkinsonism. Brain Structure and Function, 2011, 216, 319-330.	2.3	24
78	Phosphodiesterase Inhibition in Cognitive Decline. Journal of Alzheimer's Disease, 2014, 42, S561-S573.	2.6	24
79	Striatal input from the ventrobasal complex of the rat thalamus. Histochemistry and Cell Biology, 2001, 115, 447-454.	1.7	23
80	Prime Time for G-Protein-Coupled Receptor Heteromers as Therapeutic Targets for CNS disorders: The Dopamine D1-D3 Receptor Heteromer. CNS and Neurological Disorders - Drug Targets, 2010, 9, 596-600.	1.4	23
81	Gâ€Proteinâ€Coupled Receptor Heteromers as Key Players in the Molecular Architecture of the Central Nervous System. CNS Neuroscience and Therapeutics, 2014, 20, 703-709.	3.9	23
82	Targeting CB1 and GPR55 Endocannabinoid Receptors as a Potential Neuroprotective Approach for Parkinsonâ€™s Disease. Molecular Neurobiology, 2019, 56, 5900-5910.	4.0	22
83	Purification of bioactive glycosylated recombinant glial cell line-derived neurotrophic factor. International Journal of Pharmaceutics, 2007, 344, 9-15.	5.2	21
84	Origin of calretininâ€containing, vesicular glutamate transporter 2â€coexpressing fiber terminals in the entorhinal cortex of the rat. Journal of Comparative Neurology, 2008, 506, 359-370.	1.6	21
85	High-resolution neuroanatomical tract-tracing for the analysis of striatal microcircuits. Brain Research, 2008, 1221, 49-58.	2.2	21
86	History and future challenges of the subthalamic nucleus as surgical target: Review article. Movement Disorders, 2018, 33, 1540-1550.	3.9	21
87	Striatal vessels receive phosphorylated tyrosine hydroxylase-rich innervation from midbrain dopaminergic neurons. Frontiers in Neuroanatomy, 2014, 8, 84.	1.7	20
88	Two Affinity Sites of the Cannabinoid Subtype 2 Receptor Identified by a Novel Homogeneous Binding Assay. Journal of Pharmacology and Experimental Therapeutics, 2016, 358, 580-587.	2.5	20
89	Gene therapy approaches in the non-human primate model of Parkinsonâ€™s disease. Journal of Neural Transmission, 2018, 125, 575-589.	2.8	20
90	Projections from the primary auditory cortex onto the dorsal cortex of the inferior colliculus in albino rats. Archives Italiennes De Biologie, 1994, 132, 147-64.	0.4	20

#	Article	IF	Citations
91	Glucocerebrosidase Mutations and Synucleinopathies. Potential Role of Sterylglucosides and Relevance of Studying Both GBA1 and GBA2 Genes. Frontiers in Neuroanatomy, 2018, 12, 52.	1.7	19
92	An ACE2/Mas-related receptor MrgE axis in dopaminergic neuron mitochondria. Redox Biology, 2021, 46, 102078.	9.0	19
93	Neuroanatomical tract-tracing methods beyond 2000: what's now and next. Journal of Neuroscience Methods, 2000, 103, 1-2.	2.5	18
94	Glucocerebrosidase Gene Therapy Induces Alpha-Synuclein Clearance and Neuroprotection of Midbrain Dopaminergic Neurons in Mice and Macaques. International Journal of Molecular Sciences, 2021, 22, 4825.	4.1	18
95	Loss of Parvalbumin-Positive Neurons From the Globus Pallidus in Animal Models of Parkinson Disease. Journal of Neuropathology and Experimental Neurology, 2012, 71, 973-982.	1.7	16
96	Adeno-Associated Virus Liver Transduction Efficiency Measured by <i>in Vivo</i> [¹⁸F]FHBG Positron Emission Tomography Imaging in Rodents and Nonhuman Primates. Human Gene Therapy, 2011, 22, 999-1009.	2.7	14
97	Neuroanatomical tracing combined with in situ hybridization: Analysis of gene expression patterns within brain circuits of interest. Journal of Neuroscience Methods, 2010, 194, 28-33.	2.5	13
98	â€˜Functionalâ€™ neuroanatomical tract tracing: Analysis of changes in gene expression of brain circuits of interest. Brain Research, 2006, 1072, 91-98.	2.2	12
99	Expression of GPR55 and either cannabinoid CB1 or CB2 heteroreceptor complexes in the caudate, putamen, and accumbens nuclei of control, parkinsonian, and dyskinetic non-human primates. Brain Structure and Function, 2020, 225, 2153-2164.	2.3	12
100	Adeno-Associated Viral Vectors as Versatile Tools for Parkinsonâ€™s Research, Both for Disease Modeling Purposes and for Therapeutic Uses. International Journal of Molecular Sciences, 2021, 22, 6389.	4.1	12
101	A sequential protocol combining dual neuroanatomical tract-tracing with the visualization of local circuit neurons within the striatum. Journal of Neuroscience Methods, 2001, 111, 59-66.	2.5	11
102	Multiple Neuroanatomical Tract-Tracing: Approaches for Multiple Tract-Tracing. , 2006, , 336-365.		11
103	The added value of rabies virus as a retrograde tracer when combined with dual anterograde tract-tracing. Journal of Neuroscience Methods, 2010, 194, 21-27.	2.5	11
104	Classic and Contemporary Neural Tract-Tracing Techniques. , 2014, , 359-399.		11
105	Editorial: Parkinson's disease: cell vulnerability and disease progression. Frontiers in Neuroanatomy, 2015, 9, 125.	1.7	11
106	Production of highly pure human glycosylated GDNF in a mammalian cell line. International Journal of Pharmaceutics, 2010, 385, 6-11.	5.2	10
107	Notes on the combined use of V-VIP and DAB peroxidase substrates for the detection of colocalising antigens. Histochemistry and Cell Biology, 1999, 111, 305-311.	1.7	9
108	Glucocerebrosidase expression patterns in the non-human primate brain. Brain Structure and Function, 2018, 223, 343-355.	2.3	9

#	Article	IF	Citations
109	Recombinant porphobilinogen deaminase targeted to the liver corrects enzymopenia in a mouse model of acute intermittent porphyria. Science Translational Medicine, 2022, 14, eabc0700.	12.4	9
110	Classic and Contemporary Neural Tract Tracing Techniques. , 2009, , 272-308.		8
111	Two types of periglomerular cells in the olfactory bulb of the macaque monkey (Macaca fascicularis). Brain Structure and Function, 2013, 218, 873-887.	2.3	8
112	Hints on the Lateralization of Dopamine Binding to D1 Receptors in Rat Striatum. Molecular Neurobiology, 2016, 53, 5436-5445.	4.0	7
113	Silencing of Histone Deacetylase 6 Decreases Cellular Malignancy and Contributes to Primary Cilium Restoration, Epithelial-to-Mesenchymal Transition Reversion, and Autophagy Inhibition in Glioblastoma Cell Lines. Biology, 2021, 10, 467.	2.8	7
114	Pallidothalamic-projecting neurons in Macaca fascicularis co-express GABAergic and glutamatergic markers as seen in control, MPTP-treated and dyskinetic monkeys. Brain Structure and Function, 2011, 216, 371-386.	2.3	6
115	Midbrain catecholaminergic neurons co-express ÃŽÂ±-synuclein and tau in progressive supranuclear palsy. Frontiers in Neuroanatomy, 2015, 9, 25.	1.7	6
116	Synaptic connectivity of the cholinergic axons in the olfactory bulb of the cynomolgus monkey. Frontiers in Neuroanatomy, 2015, 9, 28.	1.7	5
117	Unmasking adenosine 2A receptors (A2ARs) in monkey basal ganglia output neurons using cholera toxin subunit B (CTB). Neurobiology of Disease, 2012, 47, 347-357.	4.4	4
118	Expression of cannabinoid CB 1 Râ€“GPR55 heteromers in neuronal subtypes of the Macaca fascicularis striatum. Annals of the New York Academy of Sciences, 2020, 1475, 34-42.	3.8	4
119	Adeno-Associated Viral Vectors as Versatile Tools for Neurological Disorders: Focus on Delivery Routes and Therapeutic Perspectives. Biomedicines, 2022, 10, 746.	3.2	4
120	Basal Ganglia Circuits: What's Now and Next?. Frontiers in Neuroanatomy, 2012, 6, 4.	1.7	3
121	Brain ventricular enlargement in human and murine acute intermittent porphyria. Human Molecular Genetics, 2020, 29, 3211-3223.	2.9	3
122	Intralaminar Thalamic Nuclei are Main Regulators of Basal Ganglia. , 2005, , 331-339.		2
123	Usefulness of identifying G-protein-coupled receptor dimers for diagnosis and therapy of neurodegenerative diseases and of gliomas. Histology and Histopathology, 2018, 33, 909-917.	0.7	1
124	Retrograde Tract-Tracing â€œPlusâ€: Adding Extra Value to Retrogradely Traced Neurons. Neuromethods, 2015, , 67-84.	0.3	1
125	P3.068 Basal ganglia hyperindirect pathway: direct projections from the subthalamic nucleus innervating the ventral motor thalamic nuclei in MPTP-treated primates. Parkinsonism and Related Disorders, 2009, 15, S166.	2.2	0
126	P.6.a.009 Increased ethanol self-administration associated with synaptic plasticity alterations induced by early life stress in mice. European Neuropsychopharmacology, 2014, 24, S657-S658.	0.7	0

#	Article	IF	Citations
127	99. Construction and Evaluation of Recombinant AAV Vectors for Central Nervous System Gene Delivery. Molecular Therapy, 2016, 24, S43.	8.2	0
128	370. Reconstruction of the Nigrostriatal Pathway in Parkinsonian Macaques. Molecular Therapy, 2016, 24, S148.	8.2	0