

JosÃ© Luis Venero

List of Publications by Year in descending order

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115
papers

6,801
citations

61984

43
h-index

66911

78
g-index

118
all docs

118
docs citations

118
times ranked

8562
citing authors

#	ARTICLE	IF	CITATIONS
1	Caspase signalling controls microglia activation and neurotoxicity. <i>Nature</i> , 2011, 472, 319-324.	27.8	491
2	The Single Intranigral Injection of LPS as a New Model for Studying the Selective Effects of Inflammatory Reactions on Dopaminergic System. <i>Neurobiology of Disease</i> , 2000, 7, 429-447.	4.4	373
3	Microglial subtypes: diversity within the microglial community. <i>EMBO Journal</i> , 2019, 38, e101997.	7.8	345
4	Microglia-Secreted Galectin-3 Acts as a Toll-like Receptor 4 Ligand and Contributes to Microglial Activation. <i>Cell Reports</i> , 2015, 10, 1626-1638.	6.4	268
5	Differential Upregulation of Aquaporin-4 mRNA Expression in Reactive Astrocytes after Brain Injury: Potential Role in Brain Edema. <i>Neurobiology of Disease</i> , 1999, 6, 245-258.	4.4	227
6	Minocycline reduces the lipopolysaccharide-induced inflammatory reaction, peroxynitrite-mediated nitration of proteins, disruption of the blood-brain barrier, and damage in the nigral dopaminergic system. <i>Neurobiology of Disease</i> , 2004, 16, 190-201.	4.4	187
7	Stress Increases Vulnerability to Inflammation in the Rat Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 5709-5719.	3.6	187
8	Galectin-3, a novel endogenous TREM2 ligand, detrimentally regulates inflammatory response in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2019, 138, 251-273.	7.7	187
9	Aquaporins in the central nervous system. <i>Progress in Neurobiology</i> , 2001, 63, 321-336.	5.7	182
10	Microglia: Agents of the CNS Pro-Inflammatory Response. <i>Cells</i> , 2020, 9, 1717.	4.1	174
11	Ulcerative colitis exacerbates lipopolysaccharide-induced damage to the nigral dopaminergic system: potential risk factor in Parkinson's disease. <i>Journal of Neurochemistry</i> , 2010, 114, 1687-1700.	3.9	169
12	Chronic stress enhances microglia activation and exacerbates death of nigral dopaminergic neurons under conditions of inflammation. <i>Journal of Neuroinflammation</i> , 2014, 11, 34.	7.2	157
13	Chronic stress as a risk factor for Alzheimer's disease. <i>Reviews in the Neurosciences</i> , 2014, 25, 785-804.	2.9	132
14	Stress is critical for LPS-induced activation of microglia and damage in the rat hippocampus. <i>Neurobiology of Aging</i> , 2011, 32, 85-102.	3.1	128
15	Blood-brain barrier disruption induces <i>in vivo</i> degeneration of nigral dopaminergic neurons. <i>Journal of Neurochemistry</i> , 2007, 101, 1567-1582.	3.9	125
16	Detailed localization of aquaporin-4 messenger RNA in the CNS: preferential expression in periventricular organs. <i>Neuroscience</i> , 1999, 94, 239-250.	2.3	121
17	Galectin-3 released in response to traumatic brain injury acts as an alarmin orchestrating brain immune response and promoting neurodegeneration. <i>Scientific Reports</i> , 2017, 7, 41689.	3.3	120
18	Blood-brain barrier disruption highly induces aquaporin-4 mRNA and protein in perivascular and parenchymal astrocytes: Protective effect by estradiol treatment in ovariectomized animals. <i>Journal of Neuroscience Research</i> , 2005, 80, 235-246.	2.9	101

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19	Inflammatory process as a determinant factor for the degeneration of substantia nigra dopaminergic neurons. <i>Journal of Neural Transmission</i> , 2005, 112, 111-119.	2.8	95
20	Expression of neurotrophin and trk receptor genes in adult rats with fimbria transections: Effect of intraventricular nerve growth factor and brain-derived neurotrophic factor administration. <i>Neuroscience</i> , 1994, 59, 797-815.	2.3	90
21	Peripheral inflammation increases the deleterious effect of CNS inflammation on the nigrostriatal dopaminergic system. <i>NeuroToxicology</i> , 2012, 33, 347-360.	3.0	87
22	PGC-1 β controls mitochondrial biogenesis and dynamics in lead-induced neurotoxicity. <i>Aging</i> , 2015, 7, 629-643.	3.1	87
23	Group II metabotropic glutamate receptor activation protects striatal dopaminergic nerve terminals against MPP ⁺ -induced neurotoxicity along with brain-derived neurotrophic factor induction. <i>Journal of Neurochemistry</i> , 2001, 76, 351-360.	3.9	81
24	Glioma-induced inhibition of caspase-3 in microglia promotes a tumor-supportive phenotype. <i>Nature Immunology</i> , 2016, 17, 1282-1290.	14.5	76
25	Thrombin induces in vivo degeneration of nigral dopaminergic neurones along with the activation of microglia. <i>Journal of Neurochemistry</i> , 2003, 84, 1201-1214.	3.9	75
26	TET2 Regulates the Neuroinflammatory Response in Microglia. <i>Cell Reports</i> , 2019, 29, 697-713.e8.	6.4	74
27	Metformin, besides exhibiting strong in vivo anti-inflammatory properties, increases mptp-induced damage to the nigrostriatal dopaminergic system. <i>Toxicology and Applied Pharmacology</i> , 2016, 298, 19-30.	2.8	72
28	Histamine Infusion Induces a Selective Dopaminergic Neuronal Death Along with an Inflammatory Reaction in Rat Substantia Nigra. <i>Journal of Neurochemistry</i> , 2002, 75, 540-552.	3.9	68
29	Peripheral Inflammation Enhances Microglia Response and Nigral Dopaminergic Cell Death in an in vivo MPTP Model of Parkinson's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 398.	3.7	67
30	Oxidative inactivation of tyrosine hydroxylase in substantia nigra of aged rat. <i>Free Radical Biology and Medicine</i> , 1996, 20, 53-61.	2.9	66
31	Hyperinflammation and Fibrosis in Severe COVID-19 Patients: Galectin-3, a Target Molecule to Consider. <i>Frontiers in Immunology</i> , 2020, 11, 2069.	4.8	66
32	Regulation of caspase-3 processing by cIAP2 controls the switch between pro-inflammatory activation and cell death in microglia. <i>Cell Death and Disease</i> , 2014, 5, e1565-e1565.	6.3	65
33	Apoptosis-inducing factor mediates dopaminergic cell death in response to LPS-induced inflammatory stimulus. <i>Neurobiology of Disease</i> , 2011, 41, 177-188.	4.4	64
34	The role of Galectin-3 in α -synuclein-induced microglial activation. <i>Acta Neuropathologica Communications</i> , 2014, 2, 156.	5.2	63
35	In vivo expression of aquaporin-4 by reactive microglia. <i>Journal of Neurochemistry</i> , 2004, 91, 891-899.	3.9	62
36	Localization of Aquaporin-3 mRNA and protein along the gastrointestinal tract of Wistar rats. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 438, 94-100.	2.8	56

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37	Mitochondrial toxins and neurodegenerative diseases. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 986.	3.0	53
38	Age-related changes on monoamine turnover in hippocampus of rats. <i>Brain Research</i> , 1993, 631, 89-96.	2.2	52
39	Intrastriatal infusion of nerve growth factor after quinolinic acid prevents reduction of cellular expression of choline acetyltransferase messenger RNA and trkA messenger RNA, but not glutamate decarboxylase messenger RNA. <i>Neuroscience</i> , 1994, 61, 257-268.	2.3	52
40	Protective effects of neurotrophin-4/5 and transforming growth factor- β on striatal neuronal phenotypic degeneration after excitotoxic lesioning with quinolinic acid. <i>Neuroscience</i> , 1997, 78, 73-86.	2.3	48
41	Expression of 5-HT ₇ receptor mRNA in rat brain during postnatal development. <i>Neuroscience Letters</i> , 1997, 227, 53-56.	2.1	47
42	The executioners sing a new song: killer caspases activate microglia. <i>Cell Death and Differentiation</i> , 2011, 18, 1679-1691.	11.2	47
43	Reformulating Pro-Oxidant Microglia in Neurodegeneration. <i>Journal of Clinical Medicine</i> , 2019, 8, 1719.	2.4	47
44	Nanostructures for Drug Delivery to the Brain. <i>Current Medicinal Chemistry</i> , 2011, 18, 5303-5321.	2.4	43
45	Divergent Effects of Metformin on an Inflammatory Model of Parkinson's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 440.	3.7	43
46	Differential regulation of glutamic acid decarboxylase mRNA and tyrosine hydroxylase mRNA expression in the aged manganese-treated rats. <i>Molecular Brain Research</i> , 2002, 103, 116-129.	2.3	42
47	DCG-IV but not other group-II metabotropic receptor agonists induces microglial BDNF mRNA expression in the rat striatum. Correlation with neuronal injury. <i>Neuroscience</i> , 2002, 113, 857-869.	2.3	42
48	In vivo protection of striatum from MPP ⁺ neurotoxicity by N-methyl-d-aspartate antagonists. <i>Brain Research</i> , 1992, 586, 203-207.	2.2	41
49	Time Course Changes in the Dopaminergic Nigrostriatal System Following Transection of the Medial Forebrain Bundle: Detection of Oxidatively Modified Proteins in Substantia Nigra. <i>Journal of Neurochemistry</i> , 1997, 68, 2458-2468.	3.9	41
50	Intracerebral VEGF injection highly upregulates AQP4 mRNA and protein in the perivascular space and glia limitans externa. <i>Neurochemistry International</i> , 2008, 52, 897-903.	3.8	41
51	Neuromelanin activates proinflammatory microglia through a caspase-8-dependent mechanism. <i>Journal of Neuroinflammation</i> , 2015, 12, 5.	7.2	38
52	Use of haptoglobin and transthyretin as potential biomarkers for the preclinical diagnosis of Parkinson's disease. <i>Neurochemistry International</i> , 2010, 57, 227-234.	3.8	37
53	Collateral Damage: Contribution of Peripheral Inflammation to Neurodegenerative Diseases. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 2193-2210.	2.1	37
54	Turnover of Dopamine and Serotonin and Their Metabolites in the Striatum of Aged Rats. <i>Journal of Neurochemistry</i> , 1991, 56, 1940-1948.	3.9	36

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55	Relevance of chronic stress and the two faces of microglia in Parkinson's disease. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 312.	3.7	36
56	Peripheral Inflammation Increases the Damage in Animal Models of Nigrostriatal Dopaminergic Neurodegeneration: Possible Implication in Parkinson's Disease Incidence. <i>Parkinson's Disease</i> , 2011, 2011, 1-10.	1.1	35
57	Caspases Playing in the Field of Neuroinflammation: Old and New Players. <i>Developmental Neuroscience</i> , 2013, 35, 88-101.	2.0	35
58	Importance of Aquaporins in the Physiopathology of Brain Edema. <i>Current Pharmaceutical Design</i> , 2004, 10, 2153-2161.	1.9	35
59	6-Hydroxydopamine lesions reduce BDNF mRNA levels in adult rat brain substantia nigra. <i>NeuroReport</i> , 1994, 5, 429-432.	1.2	34
60	Potential Role of Endogenous Brain-Derived Neurotrophic Factor in Long-Term Neuronal Reorganization of the Superior Colliculus after Bilateral Visual Deprivation. <i>Neurobiology of Disease</i> , 2001, 8, 866-880.	4.4	34
61	RIPK1 is a critical modulator of both tonic and TLR-responsive inflammatory and cell death pathways in human macrophage differentiation. <i>Cell Death and Disease</i> , 2018, 9, 973.	6.3	33
62	Melatonin induces tyrosine hydroxylase mRNA expression in the ventral mesencephalon but not in the hypothalamus. <i>Journal of Pineal Research</i> , 2002, 32, 6-14.	7.4	29
63	Hydroxytyrosol Decreases LPS- and α -Synuclein-Induced Microglial Activation In Vitro. <i>Antioxidants</i> , 2020, 9, 36.	5.1	28
64	Deletion of caspase-8 in mouse myeloid cells blocks microglia pro-inflammatory activation and confers protection in MPTP neurodegeneration model. <i>Aging</i> , 2015, 7, 673-689.	3.1	28
65	Arginine deprivation alters microglial polarity and synergizes with radiation to eradicate non-arginine-auxotrophic glioblastoma tumors. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	28
66	Caspases orchestrate microglia instrumental functions. <i>Progress in Neurobiology</i> , 2018, 171, 50-71.	5.7	27
67	Delayed apoptotic pyramidal cell death in CA4 and CA1 hippocampal subfields after a single intraseptal injection of kainate. <i>Neuroscience</i> , 1999, 94, 1071-1081.	2.3	26
68	Chronic stress alters the expression levels of longevity-related genes in the rat hippocampus. <i>Neurochemistry International</i> , 2016, 97, 181-192.	3.8	26
69	Deprenyl induces the tyrosine hydroxylase enzyme in the rat dopaminergic nigrostriatal system. <i>Molecular Brain Research</i> , 1997, 46, 31-38.	2.3	25
70	Regionally specific induction of BDNF and truncated trkB.T1 receptors in the hippocampal formation after intraseptal injection of kainic acid. <i>Brain Research</i> , 1998, 790, 270-277.	2.2	25
71	Proteomic identification of biomarkers in the cerebrospinal fluid in a rat model of nigrostriatal dopaminergic degeneration. <i>Journal of Neuroscience Research</i> , 2007, 85, 3607-3618.	2.9	25
72	Role of dopamine in the recruitment of immune cells to the nigro-striatal dopaminergic structures. <i>NeuroToxicology</i> , 2014, 41, 89-101.	3.0	25

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73	A Brief Overview of Multitalented Microglia. <i>Methods in Molecular Biology</i> , 2013, 1041, 3-8.	0.9	24
74	Changes in neurotransmitter levels associated with the deficiency of some essential amino acids in the diet. <i>British Journal of Nutrition</i> , 1992, 68, 409-420.	2.3	23
75	Upregulation of BDNF mRNA and trkB mRNA in the Nigrostriatal System and in the Lesion Site Following Unilateral Transection of the Medial Forebrain Bundle. <i>Experimental Neurology</i> , 2000, 161, 38-48.	4.1	22
76	Age effects on monoamine turnover of the rat substantia nigra. <i>Brain Research</i> , 1991, 557, 109-114.	2.2	20
77	Serotonin hyperinnervation in the adult rat ventral mesencephalon following unilateral transection of the medial forebrain bundle. Correlation with reactive microglial and astroglial populations. <i>Neuroscience</i> , 1999, 91, 567-577.	2.3	20
78	Intrastratial quinolinic acid injections protect against 6-hydroxydopamine-induced lesions of the dopaminergic nigrostriatal system. <i>Brain Research</i> , 1995, 672, 153-158.	2.2	19
79	Determination of monoamines and both forms of monoamine oxidase in the rat's substantia nigra during postnatal development. <i>Life Sciences</i> , 1989, 45, 1277-1283.	4.3	17
80	TrkA NGF receptor expression by non-cholinergic thalamic neurons. <i>NeuroReport</i> , 1993, 4, 959-962.	1.2	17
81	Spatio-temporal activation of caspase-8 in myeloid cells upon ischemic stroke. <i>Acta Neuropathologica Communications</i> , 2016, 4, 92.	5.2	17
82	The Ubiquitin Proteasome System in Neuromuscular Disorders: Moving Beyond Movement. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6429.	4.1	17
83	IMT-4/5 protects against adrenalectomy-induced apoptosis of rat hippocampal granule cells. <i>NeuroReport</i> , 1996, 7, 682.	1.2	16
84	Low selenium diet induces tyrosine hydroxylase enzyme in nigrostriatal system of the rat. <i>Molecular Brain Research</i> , 2000, 84, 7-16.	2.3	16
85	Kainate-induced zinc translocation from presynaptic terminals causes neuronal and astroglial cell death and mRNA loss of BDNF receptors in the hippocampal formation and amygdala. <i>Journal of Neuroscience Research</i> , 2005, 82, 184-195.	2.9	16
86	Caspase-8 inhibition represses initial human monocyte activation in septic shock model. <i>Oncotarget</i> , 2016, 7, 37456-37470.	1.8	16
87	Changes in monoamines and their metabolite levels in substantia nigra of aged rats. <i>Mechanisms of Ageing and Development</i> , 1989, 49, 227-233.	4.6	14
88	Expression of BDNF mRNA in substantia nigra is dependent on target integrity and independent of neuronal activation. <i>Journal of Neurochemistry</i> , 2003, 87, 709-721.	3.9	14
89	HERC1 Ubiquitin Ligase Is Required for Normal Axonal Myelination in the Peripheral Nervous System. <i>Molecular Neurobiology</i> , 2018, 55, 8856-8868.	4.0	14
90	Effect of ageing on monoamine turnover in the prefrontal cortex of rats. <i>Mechanisms of Ageing and Development</i> , 1993, 72, 105-118.	4.6	13

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91	Deprenyl induces GFAP immunoreactivity in the intact and injured dopaminergic nigrostriatal system but fails to counteract axotomy-induced degenerative changes. <i>Glia</i> , 1997, 21, 204-216.	4.9	13
92	The intrastriatal injection of thrombin in rat induced a retrograde apoptotic degeneration of nigral dopaminergic neurons through synaptic elimination. <i>Journal of Neurochemistry</i> , 2008, 105, 750-762.	3.9	12
93	Chronic Inhibition of the High-Affinity Dopamine Uptake System Increases Oxidative Damage to Proteins in the Aged Rat Substantia Nigra. <i>Free Radical Biology and Medicine</i> , 1997, 23, 1-7.	2.9	11
94	Determination of levels of biogenic amines and their metabolites and both forms of monoamine oxidase in prefrontal cortex of aged rats. <i>Mechanisms of Ageing and Development</i> , 1990, 56, 253-263.	4.6	9
95	Retrograde transport of nerve growth factor from hippocampus and amygdala to trk A messenger RNA expressing neurons in paraventricular and reuniens nuclei of the thalamus. <i>Neuroscience</i> , 1995, 64, 855-860.	2.3	9
96	Developmental expression of 5-HT7 receptor mRNA in rat brain visual structures after neonatal enucleation. <i>NeuroReport</i> , 1997, 8, 1531-1535.	1.2	9
97	Less induced 1-methyl-4-phenylpyridinium ion neurotoxicity on striatal slices from guinea-pigs fed with a vitamin C-deficient diet. <i>Neuroscience</i> , 1997, 77, 167-174.	2.3	9
98	Divergent regulatory mechanisms governing BDNF mRNA expression in cerebral cortex and substantia nigra in response to striatal target ablation. <i>Experimental Neurology</i> , 2005, 192, 142-155.	4.1	9
99	Selective deletion of Caspase-3 gene in the dopaminergic system exhibits autistic-like behaviour. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 104, 110030.	4.8	9
100	Inflammatory Animal Models of Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2022, 12, S165-S182.	2.8	9
101	MK-801 PARTIALLY PROTECTS AGAINST THE ACUTE MPP+ DEPLETING EFFECT ON DOPAMINE LEVELS IN RAT STRIATAL SLICES. <i>Neurochemistry International</i> , 1996, 29, 411-416.	3.8	8
102	Long-lasting induction of brain-derived neurotrophic factor is restricted to resistant cell populations in an animal model of status epilepticus. <i>Neuroscience</i> , 2001, 103, 955-969.	2.3	8
103	Evidence for dopamine-derived hydroxyl radical formation in the nigrostriatal system in response to axotomy. <i>Free Radical Biology and Medicine</i> , 2003, 34, 111-123.	2.9	8
104	Changes in the Turnover of Monoamines in Prefrontal Cortex of Rats Fed on Vitamin E-Deficient Diet. <i>Journal of Neurochemistry</i> , 1992, 58, 1889-1895.	3.9	6
105	Decreased messenger RNA expression of key markers of the nigrostriatal dopaminergic system following vitamin E deficiency in the rat. <i>Neuroscience</i> , 2000, 101, 1029-1036.	2.3	6
106	Semichronic Inhibition of Glutathione Reductase Promotes Oxidative Damage to Proteins and Induces both Transcription and Translation of Tyrosine Hydroxylase in the Nigrostriatal System. <i>Free Radical Research</i> , 2003, 37, 1003-1012.	3.3	6
107	Galectin-3 Deletion Reduces LPS and Acute Colitis-Induced Pro-Inflammatory Microglial Activation in the Ventral Mesencephalon. <i>Frontiers in Pharmacology</i> , 2021, 12, 706439.	3.5	6
108	Evaluation of a method for murine monocyte isolation by bone marrow depletion. <i>Analytical Biochemistry</i> , 2015, 480, 42-48.	2.4	5

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109	Increased Activity and Expression of Tyrosine Hydroxylase in the Rat Substantia Nigra after Chronic Treatment with Nomifensine. <i>Molecular Pharmacology</i> , 1997, 52, 641-647.	2.3	4
110	Synergistic Deleterious Effect of Chronic Stress and Sodium Azide in the Mouse Hippocampus. <i>Chemical Research in Toxicology</i> , 2015, 28, 651-661.	3.3	4
111	Effects of neonatal bilateral eye enucleation on postnatal development of the monoamines in posterior thalamus of the rat. <i>Journal of Neural Transmission</i> , 1991, 85, 231-242.	2.8	3
112	Regional-specific regulation of BDNF and <i>trkB</i> correlates with nigral dopaminergic cell sprouting following unilateral nigrostriatal axotomy. <i>Journal of Neuroscience Research</i> , 2008, 86, 2016-2027.	2.9	3
113	Gal3 Plays a Deleterious Role in a Mouse Model of Endotoxemia. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1170.	4.1	3
114	Striatal ablation of GABAergic neurons prevents the in vivo neuroprotective effect of DCG-IV against the MPP ⁺ -induced neurotoxicity on dopaminergic nerve terminals. <i>Neurochemistry International</i> , 2010, 57, 979-984.	3.8	1
115	Magnetofection as a new tool to study microglia biology. <i>Neural Regeneration Research</i> , 2019, 14, 767.	3.0	1