

# Bernardo Castellano

## List of Publications by Citations

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96  
papers

3,681  
citations

34  
h-index

57  
g-index

109  
ext. papers

4,000  
ext. citations

4.7  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
96	Microglial and astroglial reactions to ischemic and kainic acid-induced lesions of the adult rat hippocampus. <i>Experimental Neurology</i> , <b>1993</b> , 120, 70-88	5.7	229
95	Demonstration of poly-N-acetyl lactosamine residues in amoeboid and ramified microglial cells in rat brain by tomato lectin binding. <i>Journal of Histochemistry and Cytochemistry</i> , <b>1994</b> , 42, 1033-41	3.4	168
94	Neonatal handling and environmental enrichment effects on emotionality, novelty/reward seeking, and age-related cognitive and hippocampal impairments: focus on the Roman rat lines. <i>Behavior Genetics</i> , <b>1997</b> , 27, 513-26	3.2	145
93	Ontogeny of sensorimotor gating and immune impairment induced by prenatal immune challenge in rats: implications for the etiopathology of schizophrenia. <i>Molecular Psychiatry</i> , <b>2010</b> , 15, 372-83	15.1	125
92	Dynamics of microglia in the developing rat brain. <i>Journal of Comparative Neurology</i> , <b>2003</b> , 458, 144-57	3.4	119
91	Neuronal, astroglial and microglial cytokine expression after an excitotoxic lesion in the immature rat brain. <i>European Journal of Neuroscience</i> , <b>2000</b> , 12, 3505-20	3.5	116
90	Neurobehavioral and immunological consequences of prenatal immune activation in rats. Influence of antipsychotics. <i>Neuropsychopharmacology</i> , <b>2007</b> , 32, 1791-804	8.7	112
89	Microglial and astroglial reactions to anterograde axonal degeneration: a histochemical and immunocytochemical study of the adult rat fascia dentata after entorhinal perforant path lesions. <i>Experimental Brain Research</i> , <b>1994</b> , 98, 245-60	2.3	111
88	Development of microglia in the postnatal rat hippocampus. <i>Hippocampus</i> , <b>1998</b> , 8, 458-74	3.5	102
87	Antigen presentation in EAE: role of microglia, macrophages and dendritic cells. <i>Frontiers in Bioscience - Landmark</i> , <b>2011</b> , 16, 1157-71	2.8	95
86	Leukocyte infiltration and glial reactions in xenografts of mouse brain tissue undergoing rejection in the adult rat brain. A light and electron microscopical immunocytochemical study. <i>Journal of Neuroimmunology</i> , <b>1991</b> , 32, 159-83	3.5	95
85	Development of microglia in the prenatal rat hippocampus. <i>Journal of Comparative Neurology</i> , <b>1997</b> , 377, 70-84	3.4	75
84	Primary cortical glial reaction versus secondary thalamic glial response in the excitotoxically injured young brain: astroglial response and metallothionein expression. <i>Neuroscience</i> , <b>1999</b> , 92, 827-39	3.9	74
83	Increased levels of proinflammatory cytokines in the aged rat brain attenuate injury-induced cytokine response after excitotoxic damage. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 2484-97	4.4	69
82	A double staining technique for simultaneous demonstration of astrocytes and microglia in brain sections and astroglial cell cultures. <i>Journal of Histochemistry and Cytochemistry</i> , <b>1991</b> , 39, 561-8	3.4	69
81	Caspase-3 activation in astrocytes following postnatal excitotoxic damage correlates with cytoskeletal remodeling but not with cell death or proliferation. <i>Glia</i> , <b>2007</b> , 55, 954-65	9	66
80	Microglial response to N-methyl-D-aspartate-mediated excitotoxicity in the immature rat brain. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 367, 361-74	3.4	65

79	Effect of zinc, copper and glucocorticoids on metallothionein levels of cultured neurons and astrocytes from rat brain. <i>Chemico-Biological Interactions</i> , <b>1994</b> , 93, 197-219	5	57
78	STAT3 and NFkappaB activation precedes glial reactivity in the excitotoxically injured young cortex but not in the corresponding distal thalamic nuclei. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2000</b> , 59, 151-63	3.1	56
77	Morphology and distribution of microglial cells in the young and adult mouse cerebellum. <i>Journal of Comparative Neurology</i> , <b>1995</b> , 361, 602-16	3.4	56
76	NF-kappaB and IkappaBalpha expression following traumatic brain injury to the immature rat brain. <i>Journal of Neuroscience Research</i> , <b>2002</b> , 67, 772-80	4.4	49
75	Primary cortical glial reaction versus secondary thalamic glial response in the excitotoxically injured young brain: microglial/macrophage response and major histocompatibility complex class I and II expression. <i>Neuroscience</i> , <b>1999</b> , 89, 549-65	3.9	47
74	Expression of inducible nitric oxide synthase and cyclooxygenase-2 after excitotoxic damage to the immature rat brain. <i>Journal of Neuroscience Research</i> , <b>2002</b> , 68, 745-54	4.4	44
73	Role of the CD200-CD200R Axis During Homeostasis and Neuroinflammation. <i>Neuroscience</i> , <b>2019</b> , 405, 118-136	3.9	43
72	Increase in Th17 and T-reg lymphocytes and decrease of IL22 correlate with the recovery phase of acute EAE in rat. <i>PLoS ONE</i> , <b>2011</b> , 6, e27473	3.7	42
71	TNF gene cluster deletion abolishes lipopolysaccharide-mediated sensitization of the neonatal brain to hypoxic ischemic insult. <i>Laboratory Investigation</i> , <b>2011</b> , 91, 328-41	5.9	42
70	Immunotoxic depletion of microglia in mouse hippocampal slice cultures enhances ischemia-like neurodegeneration. <i>Brain Research</i> , <b>2009</b> , 1291, 140-52	3.7	42
69	Activated microglial cells acquire an immature dendritic cell phenotype and may terminate the immune response in an acute model of EAE. <i>Journal of Neuroimmunology</i> , <b>2010</b> , 223, 39-54	3.5	41
68	Triflusal posttreatment inhibits glial nuclear factor-kappaB, downregulates the glial response, and is neuroprotective in an excitotoxic injury model in postnatal brain. <i>Stroke</i> , <b>2001</b> , 32, 2394-402	6.7	41
67	The microglial reaction in spinal cords of jimpy mice is related to apoptotic oligodendrocytes. <i>Brain Research</i> , <b>1996</b> , 712, 134-42	3.7	40
66	Decrease of proinflammatory molecules correlates with neuroprotective effect of the fluorinated salicylate triflusal after postnatal excitotoxic damage. <i>Stroke</i> , <b>2002</b> , 33, 2499-505	6.7	39
65	Expression of growth inhibitory factor (metallothionein-III) mRNA and protein following excitotoxic immature brain injury. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>1999</b> , 58, 389-97	3.1	37
64	Interleukin-10 and interleukin-10 receptor-I are upregulated in glial cells after an excitotoxic injury to the postnatal rat brain. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2009</b> , 68, 391-403	3.1	36
63	CD4 microglial expression correlates with spontaneous clinical improvement in the acute Lewis rat EAE model. <i>Journal of Neuroimmunology</i> , <b>2009</b> , 209, 65-80	3.5	36
62	Temporal expression of cytokines and signal transducer and activator of transcription factor 3 activation after neonatal hypoxia/ischemia in mice. <i>Developmental Neuroscience</i> , <b>2013</b> , 35, 212-25	2.2	34

61	Time course of proliferation and elimination of microglia/macrophages in different neurodegenerative conditions. <i>Journal of Neurotrauma</i> , <b>2002</b> , 19, 1503-20	5.4	34
60	Astrocyte-targeted production of IL-10 induces changes in microglial reactivity and reduces motor neuron death after facial nerve axotomy. <i>Glia</i> , <b>2015</b> , 63, 1166-84	9	33
59	Alterations in microglial phenotype and hippocampal neuronal function in transgenic mice with astrocyte-targeted production of interleukin-10. <i>Brain, Behavior, and Immunity</i> , <b>2015</b> , 45, 80-97	16.6	33
58	Glial expression of small heat shock proteins following an excitotoxic lesion in the immature rat brain. <i>Glia</i> , <b>2002</b> , 38, 1-14	9	33
57	Expression of LFA-1alpha and ICAM-1 in the developing rat brain: a potential mechanism for the recruitment of microglial cell precursors. <i>Developmental Brain Research</i> , <b>1997</b> , 103, 163-70		31
56	Cu/Zn superoxide dismutase expression in the postnatal rat brain following an excitotoxic injury. <i>Journal of Neuroinflammation</i> , <b>2005</b> , 2, 12	10.1	31
55	Proliferation dynamics of germinative zone cells in the intact and excitotoxically lesioned postnatal rat brain. <i>BMC Neuroscience</i> , <b>2005</b> , 6, 26	3.2	31
54	Astrocyte-targeted production of interleukin-6 reduces astroglial and microglial activation in the cuprizone demyelination model: Implications for myelin clearance and oligodendrocyte maturation. <i>Glia</i> , <b>2016</b> , 64, 2104-2119	9	30
53	Induction of metallothionein in astrocytes and microglia in the spinal cord from the myelin-deficient jimpy mouse. <i>Brain Research</i> , <b>1997</b> , 767, 345-55	3.7	30
52	Expression of purine metabolism-related enzymes by microglial cells in the developing rat brain. <i>Journal of Comparative Neurology</i> , <b>1998</b> , 398, 333-46	3.4	29
51	Quantitative analysis of microglial reaction to a cortical excitotoxic lesion in the early postnatal brain. <i>Experimental Neurology</i> , <b>1997</b> , 147, 410-7	5.7	28
50	Survivin and heat shock protein 25/27 colocalize with cleaved caspase-3 in surviving reactive astrocytes following excitotoxicity to the immature brain. <i>Neuroscience</i> , <b>2008</b> , 153, 108-19	3.9	28
49	Distinct pattern of microglial response, cyclooxygenase-2, and inducible nitric oxide synthase expression in the aged rat brain after excitotoxic damage. <i>Journal of Neuroscience Research</i> , <b>2008</b> , 86, 3170-83	4.4	28
48	Identification and distribution of microglial cells in the cerebral cortex of the lizard: a histochemical study. <i>Journal of Comparative Neurology</i> , <b>1991</b> , 311, 434-44	3.4	28
47	Immobilized cells: behaviour of carrageenan entrapped yeast during continuous ethanol fermentation. <i>Applied Microbiology and Biotechnology</i> , <b>1987</b> , 26, 342	5.7	28
46	Effects of astrocyte-targeted production of interleukin-6 in the mouse on the host response to nerve injury. <i>Glia</i> , <b>2014</b> , 62, 1142-61	9	27
45	Short and long-term analysis and comparison of neurodegeneration and inflammatory cell response in the ipsilateral and contralateral hemisphere of the neonatal mouse brain after hypoxia/ischemia. <i>Neurology Research International</i> , <b>2012</b> , 2012, 781512	1.7	26
44	Substantial migration of SVZ cells to the cortex results in the generation of new neurons in the excitotoxically damaged immature rat brain. <i>Molecular and Cellular Neurosciences</i> , <b>2008</b> , 38, 170-82	4.8	26

43	Delayed neurodegeneration and early astrogliosis after excitotoxicity to the aged brain. <i>Experimental Gerontology</i> , <b>2007</b> , 42, 343-54	4.5	26
42	Neuroprotection from NMDA excitotoxic lesion by Cu/Zn superoxide dismutase gene delivery to the postnatal rat brain by a modular protein vector. <i>BMC Neuroscience</i> , <b>2006</b> , 7, 35	3.2	26
41	Astroglial nitration after postnatal excitotoxic damage: correlation with nitric oxide sources, cytoskeletal, apoptotic and antioxidant proteins. <i>Journal of Neurotrauma</i> , <b>2005</b> , 22, 189-200	5.4	26
40	Understanding glial abnormalities associated with myelin deficiency in the jimpy mutant mouse. <i>Brain Research Reviews</i> , <b>1998</b> , 26, 29-42		25
39	Oral administration of the anti-inflammatory substance triflusal results in the downregulation of constitutive transcription factor NF-kappaB in the postnatal rat brain. <i>Neuroscience Letters</i> , <b>2000</b> , 288, 41-4	3.3	22
38	Tomato lectin histochemistry for microglial visualization. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1041, 261-79	4.1	21
37	Neonatal treatment with monosodium glutamate lastingly facilitates spreading depression in the rat cortex. <i>Life Sciences</i> , <b>2013</b> , 93, 388-92	6.8	20
36	Nonviral gene delivery to the central nervous system based on a novel integrin-targeting multifunctional protein. <i>Human Gene Therapy</i> , <b>2003</b> , 14, 1215-23	4.8	20
35	Microglial cell reaction in the gray and white matter in spinal cords from jimpy mice. An enzyme histochemical study at the light and electron microscope level. <i>Brain Research</i> , <b>1995</b> , 694, 287-98	3.7	19
34	The role of interleukin-6 in central nervous system demyelination. <i>Neural Regeneration Research</i> , <b>2016</b> , 11, 1922-1923	4.5	19
33	Distinct spatial and temporal activation of caspase pathways in neurons and glial cells after excitotoxic damage to the immature rat brain. <i>Journal of Neuroscience Research</i> , <b>2007</b> , 85, 3545-56	4.4	18
32	Stat3 and NFkappaB glial expression after excitotoxic damage to the postnatal brain. <i>NeuroReport</i> , <b>1998</b> , 9, 2869-73	1.7	18
31	Histochemical demonstration of purine nucleoside phosphorylase (PNPase) in microglial and astroglial cells of adult rat brain. <i>Journal of Histochemistry and Cytochemistry</i> , <b>1990</b> , 38, 1535-9	3.4	18
30	Glial activation in the immature rat brain: implication of inflammatory transcription factors and cytokine expression. <i>Progress in Brain Research</i> , <b>2001</b> , 132, 375-89	2.9	17
29	Transitory disappearance of microglia during the regeneration of the lizard medial cortex. <i>Glia</i> , <b>1994</b> , 12, 52-61	9	17
28	Are Microglial Cells the Regulators of Lymphocyte Responses in the CNS?. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 440	6.1	16
27	Abnormal expression of the proliferating cell nuclear antigen (PCNA) in the spinal cord of the hypomyelinated Jimpy mutant mice. <i>Brain Research</i> , <b>1997</b> , 747, 130-9	3.7	16
26	Spreading depression features and Iba1 immunoreactivity in the cerebral cortex of developing rats submitted to treadmill exercise after treatment with monosodium glutamate. <i>International Journal of Developmental Neuroscience</i> , <b>2014</b> , 33, 98-105	2.7	15

25	RGD domains neuroprotect the immature brain by a glial-dependent mechanism. <i>Annals of Neurology</i> , <b>2007</b> , 62, 251-61	9.4	15
24	Expression of 27 kDa heat shock protein (Hsp27) in immature rat brain after a cortical aspiration lesion. <i>Glia</i> , <b>2001</b> , 36, 259-70	9	14
23	Decreased myeloperoxidase expressing cells in the aged rat brain after excitotoxic damage. <i>Experimental Gerontology</i> , <b>2011</b> , 46, 723-30	4.5	13
22	Purine Signaling and Microglial Wrapping. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 949, 1473-165	3.65	13
21	Reduced cuprizone-induced cerebellar demyelination in mice with astrocyte-targeted production of IL-6 is associated with chronically activated, but less responsive microglia. <i>Journal of Neuroimmunology</i> , <b>2017</b> , 310, 97-102	3.5	12
20	Neuroprotective effects of the anti-inflammatory compound triflusal on ischemia-like neurodegeneration in mouse hippocampal slice cultures occur independent of microglia. <i>Experimental Neurology</i> , <b>2009</b> , 218, 11-23	5.7	12
19	Antioxidant Cu/Zn SOD: expression in postnatal brain progenitor cells. <i>Neuroscience Letters</i> , <b>2006</b> , 401, 71-6	3.3	10
18	Immunological reactions to neural grafts in the central nervous system. <i>Restorative Neurology and Neuroscience</i> , <b>1991</b> , 2, 271-82	2.8	10
17	Electrophysiological evaluation of spinal reflexes during epidural anesthesia in an experimental model. <i>Muscle and Nerve</i> , <b>1996</b> , 19, 29-36	3.4	8
16	Astrocyte-targeted IL-10 production decreases proliferation and induces a downregulation of activated microglia/macrophages after PPT. <i>Glia</i> , <b>2019</b> , 67, 741-758	9	8
15	Prolongation of Nerve and Epidural Anesthetic Blockade by Bupivacaine in a Lipid Emulsion. <i>Anesthesia and Analgesia</i> , <b>1999</b> , 89, 121-127	3.9	7
14	Chronic exposure to IL-6 induces a desensitized phenotype of the microglia. <i>Journal of Neuroinflammation</i> , <b>2021</b> , 18, 31	10.1	7
13	Reduction of the microglial cell number in rat primary glial cell cultures by exogenous addition of dibutyryl cyclic adenosine monophosphate. <i>Journal of Neuroimmunology</i> , <b>1996</b> , 70, 123-9	3.5	6
12	Cytochemical demonstration of TPPase in myelinated fibers in the central and peripheral nervous system of the rat. <i>Brain Research</i> , <b>1989</b> , 492, 203-10	3.7	6
11	Brain effects of the lectin from <i>Canavalia ensiformis</i> in adult rats previously suckled in favorable and unfavorable conditions: A spreading depression and microglia immunolabeling study. <i>Nutritional Neuroscience</i> , <b>2015</b> , 18, 307-15	3.6	5
10	Microglia detection by enzymatic histochemistry. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1041, 243-59	1.4	5
9	Interleukin-10 overexpression does not synergize with the neuroprotective action of RGD-containing vectors after postnatal brain excitotoxicity but modulates the main inflammatory cell responses. <i>Journal of Neuroscience Research</i> , <b>2012</b> , 90, 143-59	4.4	3
8	Differential Roles of TREM2+ Microglia in Anterograde and Retrograde Axonal Injury Models. <i>Frontiers in Cellular Neuroscience</i> , <b>2020</b> , 14, 567404	6.1	3

7	Glial Response to Excitotoxic Injury in the Immature Rat Brain <b>1998</b> , 271-295		3
6	Evaluation of Myelin Phagocytosis by Microglia/Macrophages in Nervous Tissue Using Flow Cytometry. <i>Current Protocols</i> , <b>2021</b> , 1, e73		2
5	Formaci3n en medicina no convencional en el plan de estudios del grado de medicina de la Universidad Aut3noma de Barcelona. <i>Revista Internacional De Acupuntura</i> , <b>2011</b> , 5, 68-71	0.1	1
4	Prolongation of nerve and epidural anesthetic blockade by bupivacaine in a lipid emulsion. <i>Anesthesia and Analgesia</i> , <b>1999</b> , 89, 121-7	3.9	1
3	Chronic IL-10 overproduction disrupts microglia-neuron dialogue similar to aging, resulting in impaired hippocampal neurogenesis and spatial memory.. <i>Brain, Behavior, and Immunity</i> , <b>2022</b> , 101, 231-245	16.6	1
2	Specific microglial phagocytic phenotype and decrease of lipid oxidation in white matter areas during aging: Implications of different microenvironments. <i>Neurobiology of Aging</i> , <b>2021</b> , 105, 280-295	5.6	1
1	Glial Abnormalities in Genetically Determined Disorders of Myelin <b>1998</b> , 363-384		1