

# Ricardo Martinez-Murillo

## List of Publications by Year in descending order

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100  
papers

2,992  
citations

172457

29  
h-index

197818

49  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Localization of nitric oxide synthase in the adult rat brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1994, 345, 175-221.	4.0	365
2	Methamphetamine Causes Degeneration of Dopamine Cell Bodies and Terminals of the Nigrostriatal Pathway Evidenced by Silver Staining. <i>Neuropsychopharmacology</i> , 2014, 39, 1066-1080.	5.4	127
3	Neuronal and inducible nitric oxide synthase and nitrotyrosine immunoreactivities in the cerebral cortex of the aging rat. , 1998, 43, 75-88.		115
4	Expression of nitric oxide system in clinically evaluated cases of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2004, 15, 287-305.	4.4	110
5	Distribution of adrenomedullin-like immunoreactivity in the rat central nervous system by light and electron microscopy. <i>Brain Research</i> , 2000, 853, 245-268.	2.2	101
6	Intra- and extracellular Abeta and PHF in clinically evaluated cases of Alzheimer's disease. <i>Histology and Histopathology</i> , 2004, 19, 823-44.	0.7	99
7	Neuronal and inducible nitric oxide synthase expression and protein nitration in rat cerebellum after oxygen and glucose deprivation. <i>Brain Research</i> , 2001, 909, 20-45.	2.2	93
8	Neuronâ€astrocyte signaling is preserved in the aging brain. <i>Glia</i> , 2017, 65, 569-580.	4.9	89
9	The Î¶1 Receptor Engages the Redox-Regulated HINT1 Protein to Bring Opioid Analgesia Under NMDA Receptor Negative Control. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 799-818.	5.4	71
10	Nitric oxide in the cerebral cortex of amyloid-precursor protein (SW) Tg2576 transgenic mice. <i>Neuroscience</i> , 2004, 128, 73-89.	2.3	68
11	Cholinergic somata and terminals in the rat substantia nigra: An immunocytochemical study with optical and electron microscopic techniques. <i>Journal of Comparative Neurology</i> , 1989, 281, 397-415.	1.6	62
12	Astrocytes require insulin-like growth factor I to protect neurons against oxidative injury. <i>F1000Research</i> , 2014, 3, 28.	1.6	58
13	Expression of neuronal nitric oxide synthase during embryonic development of the rat cerebral cortex. <i>Developmental Brain Research</i> , 1998, 111, 205-222.	1.7	51
14	Standardization of an orthotopic mouse brain tumor model following transplantation of CT-2A astrocytoma cells. <i>Histology and Histopathology</i> , 2007, 22, 1309-26.	0.7	51
15	Presence of calcitonin gene-related peptide (CGRP) and substance P (SP) immunoreactivity in intraepidermal free nerve endings of cat skin. <i>Brain Research</i> , 1988, 442, 391-395.	2.2	50
16	Adrenomedullin in the central nervous system. <i>Microscopy Research and Technique</i> , 2002, 57, 76-90.	2.2	47
17	Immunocytochemical analysis of calcitonin gene-related peptide and vasoactive intestinal polypeptide in Merkel cells and cutaneous free nerve endings of cats. <i>Cell and Tissue Research</i> , 1988, 254, 429-37.	2.9	46
18	Subcellular localization of nitric oxide synthase in the cerebral ventricular system, subfornical organ, area postrema, and blood vessels of the rat brain. , 1997, 378, 522-534.		44

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19	Thermally reduced graphene is a permissive material for neurons and astrocytes and de novo neurogenesis in the adult olfactory bulb in vivo. <i>Biomaterials</i> , 2016, 82, 84-93.	11.4	42
20	Updating old ideas and recent advances regarding the Interstitial Cells of Cajal. <i>Brain Research Reviews</i> , 2009, 61, 154-169.	9.0	39
21	Immunocytochemical localization of cholinergic terminals in the region of the nucleus basalis magnocellularis of the rat: A correlated light and electron microscopic study. <i>Neuroscience</i> , 1990, 36, 361-376.	2.3	38
22	Subcellular localization of insulin-like growth factor I (IGF-I) in Purkinje cells of the adult rat: An immunocytochemical study. <i>Neuroscience Letters</i> , 1992, 135, 171-174.	2.1	38
23	The origin of tyrosine hydroxylase-immunoreactive fibers in the regions of the nucleus basalis magnocellularis of the rat. <i>Brain Research</i> , 1988, 451, 227-236.	2.2	36
24	Electron microscopic localization of cholinergic terminals in the rat substantia nigra: An immunocytochemical study. <i>Neuroscience Letters</i> , 1989, 96, 121-126.	2.1	36
25	Nitric Oxide: Target for Therapeutic Strategies in Alzheimers Disease. <i>Current Pharmaceutical Design</i> , 2010, 16, 2837-2850.	1.9	34
26	Cortical Reshaping and Functional Recovery Induced by Silk Fibroin Hydrogels-Encapsulated Stem Cells Implanted in Stroke Animals. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 296.	3.7	34
27	Lesion-induced expression of low-affinity nerve growth factor receptor-immunoreactive protein in Purkinje cells of the adult rat. <i>Neuroscience</i> , 1993, 52, 587-593.	2.3	33
28	Astrocytes require insulin-like growth factor I to protect neurons against oxidative injury. <i>F1000Research</i> , 2014, 3, 28.	1.6	33
29	Biomaterials to Neuroprotect the Stroke Brain: A Large Opportunity for Narrow Time Windows. <i>Cells</i> , 2020, 9, 1074.	4.1	32
30	Distribution of neuronal nitric oxide synthase in the rat liver. <i>Neuroscience Letters</i> , 1997, 226, 99-102.	2.1	31
31	Lack of adrenomedullin in mouse endothelial cells results in defective angiogenesis, enhanced vascular permeability, less metastasis, and more brain damage. <i>Scientific Reports</i> , 2016, 6, 33495.	3.3	31
32	Distribution of enkephalin-immunoreactive nerve fibres and terminals in the region of the nucleus basalis magnocellularis of the rat: a light and electron microscopic study. <i>Journal of Neurocytology</i> , 1988, 17, 361-376.	1.5	30
33	RGSZ2 Binds to the Neural Nitric Oxide Synthase PDZ Domain to Regulate Mu-Opioid Receptor-Mediated Potentiation of the $N$ -Methyl-D-Aspartate Receptor-Calmodulin-Dependent Protein Kinase II Pathway. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 873-887.	5.4	30
34	Localization of C-PON immunoreactivity in the rat main olfactory bulb. Demonstration that the population of neurons containing endogenous C-PON display NADPH-diaphorase activity. <i>Neuroscience</i> , 1989, 33, 373-382.	2.3	29
35	Distribution of nitric oxide synthase in the esophagus of the cat and monkey. <i>Journal of the Autonomic Nervous System</i> , 1998, 70, 164-179.	1.9	29
36	Postnatal changes in the nitric oxide system of the rat cerebral cortex after hypoxia during delivery. <i>Developmental Brain Research</i> , 2003, 142, 177-192.	1.7	29

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37	In Vitro Evaluation of Biocompatibility of Uncoated Thermally Reduced Graphene and Carbon Nanotube-Loaded PVDF Membranes with Adult Neural Stem Cell-Derived Neurons and Glia. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 94.	4.1	29
38	Distribution of the inositol 1,4,5-trisphosphate receptor, P400, in adult rat brain. <i>Journal of Comparative Neurology</i> , 1993, 337, 493-517.	1.6	28
39	High sensitivity to carcinogens in the brain of a mouse model of Alzheimer's disease. <i>Oncogene</i> , 2010, 29, 2165-2171.	5.9	27
40	Lack of Adrenomedullin in the Central Nervous System Results in Apparently Paradoxical Alterations on Pain Sensitivity. <i>Endocrinology</i> , 2010, 151, 4908-4915.	2.8	27
41	C-PON containing neurons in the rat striatum are also positive for NADPH-diaphorase activity. A light microscopic study. <i>Brain Research</i> , 1988, 462, 359-362.	2.2	26
42	Distribution of catecholaminergic afferent fibres in the rat globus pallidus and their relations with cholinergic neurons. <i>Journal of Chemical Neuroanatomy</i> , 1998, 15, 1-20.	2.1	26
43	Hypothermia Prevents Gliosis and Angiogenesis Development in an Experimental Model of Ischemic Proliferative Retinopathy. , 2013, 54, 2836.		25
44	Insulin-like growth factor I-immunoreactive peptide in adult human cerebellar purkinje cells: Co-localization with low-affinity nerve growth factor receptor. <i>Neuroscience</i> , 1994, 59, 641-650.	2.3	24
45	Expression of nitrergic system and protein nitration in adult rat brains submitted to acute hypobaric hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , 2003, 8, 182-201.	2.7	24
46	The nitric oxide donor LA 419 decreases brain damage in a focal ischemia model. <i>Neuroscience Letters</i> , 2007, 415, 149-153.	2.1	23
47	Distribution and density of neuropeptide Y-immunoreactive nerve fibres and cells in the horse urinary bladder. <i>Journal of the Autonomic Nervous System</i> , 1989, 27, 173-180.	1.9	21
48	Lack of adrenomedullin, but not complement factor H, results in larger infarct size and more extensive brain damage in a focal ischemia model. <i>Neuroscience</i> , 2010, 171, 885-892.	2.3	21
49	The proof-of-concept of ASS234: Peripherally administered ASS234 enters the central nervous system and reduces pathology in a male mouse model of Alzheimer disease. <i>Journal of Psychiatry and Neuroscience</i> , 2017, 42, 59-69.	2.4	21
50	Subcellular localization of low-affinity nerve growth factor receptor-immunoreactive protein in adult rat purkinje cells following traumatic injury. <i>Experimental Brain Research</i> , 1998, 119, 47-57.	1.5	17
51	Neural differentiation of transplanted neural stem cells in a rat model of striatal lacunar infarction: light and electron microscopic observations. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 30.	3.7	17
52	Expression of Basic Fibroblast Growth Factor and Its Receptor in the Rat Subfornical Organ. <i>Neuroendocrinology</i> , 1991, 54, 62-67.	2.5	16
53	Immunocytochemical Localization of Insulin-Like Growth Factor I in the Hypothalamo-Hypophyseal System of the Adult Rat. <i>Neuroendocrinology</i> , 1992, 56, 856-863.	2.5	16
54	Hypothermia prevents nitric oxide system changes in retina induced by severe perinatal asphyxia. <i>Journal of Neuroscience Research</i> , 2011, 89, 729-743.	2.9	16

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55	Methylene blue prevents retinal damage in an experimental model of ischemic proliferative retinopathy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1011-R1019.	1.8	16
56	Light and electron microscopic study of galanin-immunoreactive nerve fibers in the rat posterior thalamus. <i>Journal of Comparative Neurology</i> , 1989, 283, 1-12.	1.6	15
57	Nitric oxide in the rat cerebellum after hypoxia/ischemia. <i>Cerebellum</i> , 2004, 3, 194-203.	2.5	14
58	Long-term dynamics of somatosensory activity in a stroke model of distal middle cerebral artery occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 606-620.	4.3	14
59	Adrenomedullin Expression in Alzheimer's Brain. <i>Current Alzheimer Research</i> , 2016, 13, 428-438.	1.4	14
60	Immunohistochemical localization of the inositol 1,4,5-triphosphate receptor in the human nervous system. <i>Brain Research</i> , 1993, 601, 193-202.	2.2	13
61	Synthesis, antioxidant properties and neuroprotection of $\hat{\pm}$ -phenyl-tert-butyl nitron derived HomoBisNitrones in in vitro and in vivo ischemia models. <i>Scientific Reports</i> , 2020, 10, 14150.	3.3	13
62	SUMO-SIM Interactions Regulate the Activity of RGSZ2 Proteins. <i>PLoS ONE</i> , 2011, 6, e28557.	2.5	13
63	The contributions of Santiago Ramón y Cajal to cancer research "100 years on. <i>Nature Reviews Cancer</i> , 2005, 5, 904-909.	28.4	12
64	Guía de recomendaciones en la aplicación de modelos animales para el estudio del ictus. <i>Neurología</i> , 2011, 26, 105-110.	0.7	12
65	New synthesis and promising neuroprotective role in experimental ischemic stroke of ONO-1714. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 439-446.	5.5	12
66	Review: Could neurotransmitters influence neurogenesis and neurorepair after stroke?. <i>Neuropathology and Applied Neurobiology</i> , 2013, 39, 722-735.	3.2	12
67	Histochemical characteristics of diphosphate nucleoside consumption in, cat and rat nervous system. <i>Acta Histochemica</i> , 1979, 65, 138-145.	1.8	11
68	Distribution and expression pattern of the nitrergic system in the cerebellum of the sheep. <i>Neuroscience</i> , 2006, 139, 889-898.	2.3	11
69	Chemical heterogeneity in adult rat cerebellar purkinje cells as revealed by zebrin I and low-affinity nerve growth factor receptor immunocytochemical expression following injury. <i>Journal of Neurocytology</i> , 1995, 24, 807-817.	1.5	10
70	Slowdown intracranial glioma progression by optical hyperthermia therapy: study on a CT-2A mouse astrocytoma model. <i>Nanotechnology</i> , 2019, 30, 355101.	2.6	10
71	Subcellular localization of the inositol 1,4,5-triphosphate receptor, P400, in the vestibular complex and dorsal cochlear nucleus of the rat. <i>Brain Research</i> , 1994, 634, 191-202.	2.2	9
72	Whole-body periodic acceleration reduces brain damage in a focal ischemia model. <i>Neuroscience</i> , 2009, 158, 1390-1396.	2.3	9

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73	Glycoproteins and polyanions in the synapses of rat and mouse central nervous system. <i>Acta Histochemica</i> , 1978, 61, 89-97.	1.8	8
74	Subcellular localization of nerve growth factor receptors in identified cells of the rat nucleus basalis magnocellularis: An immunocytochemical study. <i>Neuroscience</i> , 1991, 42, 463-472.	2.3	8
75	Molecular and Cellular Aspects of Neurotransmission and Neuromodulation. <i>International Review of Cytology</i> , 1994, 149, 217-292.	6.2	8
76	Ischemia and reperfusion reduce the endogenous basic fibroblast growth factor in rat skeletal muscles: An immunohistochemical study. <i>Wound Repair and Regeneration</i> , 1996, 4, 381-385.	3.0	8
77	Synthesis, neuroprotective and antioxidant capacity of PBN-related indanonitrone. <i>Bioorganic Chemistry</i> , 2019, 86, 445-451.	4.1	8
78	Adrenomedullin and Nitric Oxide: Implications for the Etiology and Treatment of Primary Brain Tumors. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 820-833.	1.4	8
79	Cajal's achievements in the field of the development of dendritic arbors. <i>International Journal of Developmental Biology</i> , 2010, 54, 1405-1417.	0.6	7
80	The nitric oxide donor LA 419 decreases ischemic brain damage. <i>International Journal of Molecular Medicine</i> , 2007, 19, 229-36.	4.0	7
81	Changes in the Expression Pattern of the Nitroergic System of Ovine Cerebellum Affected by Scrapie. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 196-207.	1.7	6
82	Cyclopropanation Reactions for the Synthesis of 2-Azabicyclo[4.1.0]heptane Derivatives with Nitric Oxide Synthase Inhibitory Activity. <i>Chemistry Letters</i> , 2008, 37, 1222-1223.	1.3	6
83	Postischemic Neuroprotection of Aminoethoxydiphenyl Borate Associates Shortening of Peri-Infarct Depolarizations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7449.	4.1	6
84	Lasting loss in substance P following administration of substance P antiserum to newborn rats. An immunohistochemical study. <i>Neuroscience Letters</i> , 1991, 126, 75-78.	2.1	5
85	Presence of calcitonin gene-related peptide in intraepithelial nerve fibers and motor end-plates of the cat esophagus: a light and electron microscopic study. <i>Journal of the Autonomic Nervous System</i> , 1994, 49, 21-31.	1.9	5
86	The APP <sup>swE</sup> /PS <sup>1A246E</sup> mutations in an astrocytic cell line leads to increased vulnerability to oxygen and glucose deprivation, Ca <sup>2+</sup> dysregulation, and mitochondrial abnormalities. <i>Journal of Neurochemistry</i> , 2018, 145, 170-182.	3.9	4
87	In vitro d-amphetamine action on oxido-reductase activity of several rat nervous centres. <i>Acta Histochemica</i> , 1984, 74, 85-90.	1.8	3
88	Separation of specific fractions of synaptosomes by affinity chromatography. <i>Experientia</i> , 1978, 34, 1598-1598.	1.2	2
89	Distribution of peripherally stained neurons by the Colloidal Iron histochemical method in albino rat cerebral cortex. A quantitative study. <i>Neuroscience Letters</i> , 1980, 17, 79-83.	2.1	2
90	Succinic and malic dehydrogenase histochemical activities in cerebral, cerebellar and neostriatum sections incubated in presence of d-amphetamine. <i>Acta Neuropathologica</i> , 1985, 67, 81-85.	7.7	2

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91	Presence of C-flanking peptide of neuropeptide Y (C-PON)-immunoreactive neurons in the olfactory cortex of the hedgehog ( <i>Erinaceus europaeus</i> ). <i>Neuroscience Letters</i> , 1993, 158, 109-112.	2.1	2
92	The nitric oxide donor LA 419 decreases ischemic brain damage. <i>International Journal of Molecular Medicine</i> , 0, , .	4.0	2
93	The Use of Silica Microparticles to Improve the Efficiency of Optical Hyperthermia (OH). <i>International Journal of Molecular Sciences</i> , 2021, 22, 5091.	4.1	2
94	Action of L-aspartic, methyl aspartic and acetyl aspartic acids on GABA transaminase histochemical activity in nervous tissue. , 1984, 30, 553-7.		2
95	Distribution of glyoxylate dehydrogenase activity in cortical and subcortical regions of the rat brain. A light microscopic histoenzymological study. <i>Cellular and Molecular Biology</i> , 1996, 42, 873-80.	0.9	2
96	Localization of aspartate aminotransferase and glutamic dehydrogenase in the Edinger-Westphal and oculomotor nuclei of <i>Lacerta lepida</i> . <i>Neuroscience Letters</i> , 1977, 6, 65-68.	2.1	1
97	C-PON immunoreactive neurons in the neostriatum of the hedgehog ( <i>Erinaceus europaeus</i> ): a correlated light- and electron-microscopic study. <i>Cell and Tissue Research</i> , 1994, 277, 177-181.	2.9	1
98	Morphological and cytochemical study of a hypothalamochiasmatic perivascular neuronal system. <i>Journal of Anatomy</i> , 1979, 128, 563-70.	1.5	1
99	Diaminobenzidine oxidation in cerebellar histological sections. <i>Acta Histochemica</i> , 1978, 62, 110-119.	1.8	0
100	Study on, distribution of polyanionic substances and glycoproteins in albino rats hippocampus during post-natal development. <i>Acta Histochemica</i> , 1981, 68, 27-34.	1.8	0