

# María Isabel Fariñas Gómez

## List of Publications by Year in descending order

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93  
papers

14,793  
citations

41323

49  
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48277

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97  
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97  
docs citations

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times ranked

14831  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute lymphoblastic leukemia cells are able to infiltrate the brain subventricular zone stem cell niche and impair neurogenesis. <i>Haematologica</i> , 2022, , .	1.7	0
2	Adult Neural Stem Cells Are Alerted by Systemic Inflammation through TNF- $\alpha$ Receptor Signaling. <i>Cell Stem Cell</i> , 2021, 28, 285-299.e9.	5.2	80
3	Behavioral evaluation of aging in experimental animals. , 2021, , 553-564.		1
4	NT3/TrkC Pathway Modulates the Expression of UCP-1 and Adipocyte Size in Human and Rodent Adipose Tissue. <i>Frontiers in Endocrinology</i> , 2021, 12, 630097.	1.5	9
5	Vascular Senescence: A Potential Bridge Between Physiological Aging and Neurogenic Decline. <i>Frontiers in Neuroscience</i> , 2021, 15, 666881.	1.4	9
6	Cell population analysis of the adult murine subependymal neurogenic lineage by flow cytometry. <i>STAR Protocols</i> , 2021, 2, 100425.	0.5	8
7	High-resolution mouse subventricular zone stem-cell niche transcriptome reveals features of lineage, anatomy, and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31448-31458.	3.3	39
8	Spanish Cell Therapy Network (TerCel): 15 years of successful collaborative translational research. <i>Cytotherapy</i> , 2020, 22, 1-5.	0.3	6
9	NO Hemodynamic Speed Limit for Hippocampal Neurogenesis. <i>Neuron</i> , 2019, 103, 752-754.	3.8	0
10	Physiological Interactions between Microglia and Neural Stem Cells in the Adult Subependymal Niche. <i>Neuroscience</i> , 2019, 405, 77-91.	1.1	16
11	Interaction between Angiotensin Type 1, Type 2, and Mas Receptors to Regulate Adult Neurogenesis in the Brain Ventricular-Subventricular Zone. <i>Cells</i> , 2019, 8, 1551.	1.8	22
12	Selective $\alpha$ -Synuclein Knockdown in Monoamine Neurons by Intranasal Oligonucleotide Delivery: Potential Therapy for Parkinson's Disease. <i>Molecular Therapy</i> , 2018, 26, 550-567.	3.7	97
13	Synaptic Regulator $\alpha$ -Synuclein in Dopaminergic Fibers Is Essentially Required for the Maintenance of Subependymal Neural Stem Cells. <i>Journal of Neuroscience</i> , 2018, 38, 814-825.	1.7	16
14	p27Kip1 regulates alpha-synuclein expression. <i>Oncotarget</i> , 2018, 9, 16368-16379.	0.8	6
15	Role of p27Kip1 as a transcriptional regulator. <i>Oncotarget</i> , 2018, 9, 26259-26278.	0.8	32
16	Abstract 3015: Precise investigation of cancer stem cells in mouse glioblastoma. , 2018, , .		0
17	Cyclin-Dependent Kinase 4 Regulates Adult Neural Stem Cell Proliferation and Differentiation in Response to Insulin. <i>Stem Cells</i> , 2017, 35, 2403-2416.	1.4	29
18	Evolutionary conserved role of eukaryotic translation factor eIF5A in the regulation of actin-nucleating formins. <i>Scientific Reports</i> , 2017, 7, 9580.	1.6	11

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19	Building Bridges through Science. <i>Neuron</i> , 2017, 96, 730-735.	3.8	2
20	Characterization and isolation of immature neurons of the adult mouse piriform cortex. <i>Developmental Neurobiology</i> , 2016, 76, 748-763.	1.5	23
21	Fetal neurogenesis: breathe <sc>HIF</sc> you can. <i>EMBO Journal</i> , 2016, 35, 901-903.	3.5	2
22	Isolation, culture and analysis of adult subependymal neural stem cells. <i>Differentiation</i> , 2016, 91, 28-41.	1.0	47
23	Stable and Efficient Genetic Modification of Cells in the Adult Mouse V-SVZ for the Analysis of Neural Stem Cell Autonomous and Non-autonomous Effects. <i>Journal of Visualized Experiments</i> , 2016, , 53282.	0.2	1
24	p73 is required for ependymal cell maturation and neurogenic <sc>SVZ</sc> cytoarchitecture. <i>Developmental Neurobiology</i> , 2016, 76, 730-747.	1.5	42
25	Regulation of the p19 Arf /p53 pathway by histone acetylation underlies neural stem cell behavior in senescence-prone SAMP8 mice. <i>Aging Cell</i> , 2015, 14, 453-462.	3.0	22
26	The Cyclin-Dependent Kinase Inhibitor p27kip1 Regulates Radial Stem Cell Quiescence and Neurogenesis in the Adult Hippocampus. <i>Stem Cells</i> , 2015, 33, 219-229.	1.4	53
27	Lewy body extracts from Parkinson disease brains trigger $\alpha$ -synuclein pathology and neurodegeneration in mice and monkeys. <i>Annals of Neurology</i> , 2014, 75, 351-362.	2.8	521
28	Endothelial NT-3 Delivered by Vasculature and CSF Promotes Quiescence of Subependymal Neural Stem Cells through Nitric Oxide Induction. <i>Neuron</i> , 2014, 83, 572-585.	3.8	156
29	MT5-MMP regulates adult neural stem cell functional quiescence through the cleavage of N-cadherin. <i>Nature Cell Biology</i> , 2014, 16, 629-638.	4.6	85
30	Transcriptional repression of Bmp2 by p21Waf1/Cip1 links quiescence to neural stem cell maintenance. <i>Nature Neuroscience</i> , 2013, 16, 1567-1575.	7.1	64
31	The APC/C cofactor Cdh1 prevents replicative stress and p53-dependent cell death in neural progenitors. <i>Nature Communications</i> , 2013, 4, 2880.	5.8	54
32	Cyclin-Dependent Kinase Inhibitor p21 Controls Adult Neural Stem Cell Expansion by Regulating Sox2 Gene Expression. <i>Cell Stem Cell</i> , 2013, 12, 88-100.	5.2	164
33	Symmetric Expansion of Neural Stem Cells from the Adult Olfactory Bulb Is Driven by Astrocytes Via WNT7A. <i>Stem Cells</i> , 2012, 30, 2796-2809.	1.4	31
34	IRS2 signalling is required for the development of a subset of sensory spinal neurons. <i>European Journal of Neuroscience</i> , 2012, 35, 341-352.	1.2	8
35	Postnatal loss of Dlk1 imprinting in stem cells and niche astrocytes regulates neurogenesis. <i>Nature</i> , 2011, 475, 381-385.	13.7	247
36	Vulnerability of peripheral catecholaminergic neurons to MPTP is not regulated by $\alpha$ -synuclein. <i>Neurobiology of Disease</i> , 2010, 38, 92-103.	2.1	10

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37	Ikarsá couples cell cycle arrest of late striatal precursors with neurogenesis of enkephalinergic neurons. <i>Journal of Comparative Neurology</i> , 2010, 518, 329-351.	0.9	36
38	Perivascular nerve fiber $\alpha$ -synuclein regulates contractility of mouse aorta: A link to autonomic dysfunction in Parkinson's disease. <i>Neurochemistry International</i> , 2010, 56, 991-998.	1.9	13
39	Prosurvival effect of human wild-type $\alpha$ -synuclein on MPTP-induced toxicity to central but not peripheral catecholaminergic neurons isolated from transgenic mice. <i>Neuroscience</i> , 2010, 167, 261-276.	1.1	9
40	Signaling through BMPRII Regulates Quiescence and Long-Term Activity of Neural Stem Cells in the Adult Hippocampus. <i>Cell Stem Cell</i> , 2010, 7, 78-89.	5.2	417
41	Regulated Segregation of Kinase Dyrk1A during Asymmetric Neural Stem Cell Division Is Critical for EGFR-Mediated Biased Signaling. <i>Cell Stem Cell</i> , 2010, 7, 367-379.	5.2	71
42	BDNF is essentially required for the early postnatal survival of nociceptors. <i>Developmental Biology</i> , 2010, 339, 465-476.	0.9	27
43	Telomere Shortening in Neural Stem Cells Disrupts Neuronal Differentiation and Neurogenesis. <i>Journal of Neuroscience</i> , 2009, 29, 14394-14407.	1.7	163
44	Metalloproteinase MT5-MMP is an essential modulator of neuro-immune interactions in thermal pain stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16451-16456.	3.3	69
45	Glial precursors clear sensory neuron corpses during development via Jedi-1, an engulfment receptor. <i>Nature Neuroscience</i> , 2009, 12, 1534-1541.	7.1	157
46	Vascular niche factor PEDF modulates Notch-dependent stemness in the adult subependymal zone. <i>Nature Neuroscience</i> , 2009, 12, 1514-1523.	7.1	206
47	Cell expression of GDAP1 in the nervous system and pathogenesis of Charcot-Marie-Tooth type 4A disease. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 679-689.	1.6	61
48	Satb2 Regulates Callosal Projection Neuron Identity in the Developing Cerebral Cortex. <i>Neuron</i> , 2008, 57, 364-377.	3.8	581
49	A combined ex/in vivo assay to detect effects of exogenously added factors in neural stem cells. <i>Nature Protocols</i> , 2007, 2, 849-859.	5.5	87
50	SATB2 Is a Multifunctional Determinant of Craniofacial Patterning and Osteoblast Differentiation. <i>Cell</i> , 2006, 125, 971-986.	13.5	458
51	Abnormal development of pacinian corpuscles in double <i>trkB</i> ; <i>trkC</i> knockout mice. <i>Neuroscience Letters</i> , 2006, 410, 157-161.	1.0	13
52	Pigment epithelium-derived factor is a niche signal for neural stem cell renewal. <i>Nature Neuroscience</i> , 2006, 9, 331-339.	7.1	427
53	Selective Glial Cell Line-Derived Neurotrophic Factor Production in Adult Dopaminergic Carotid Body Cells In Situ and after Intrastratial Transplantation. <i>Journal of Neuroscience</i> , 2005, 25, 4091-4098.	1.7	62
54	BDNF, but not NT-4, is necessary for normal development of Meissner corpuscles. <i>Neuroscience Letters</i> , 2005, 377, 12-15.	1.0	39

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55	Telomere shortening and chromosomal instability abrogates proliferation of adult but not embryonic neural stem cells. <i>Development (Cambridge)</i> , 2004, 131, 4059-4070.	1.2	133
56	Î±-Synuclein Expression Levels Do Not Significantly Affect Proteasome Function and Expression in Mice and Stably Transfected PC12 Cell Lines. <i>Journal of Biological Chemistry</i> , 2004, 279, 52984-52990.	1.6	49
57	Stressor-related impairment of synaptic transmission in hippocampal slices from Î±-synuclein knockout mice. <i>European Journal of Neuroscience</i> , 2004, 20, 3085-3091.	1.2	18
58	ErbB2 regulates neuromuscular synapse formation and is essential for muscle spindle development. <i>Development (Cambridge)</i> , 2003, 130, 2291-2301.	1.2	84
59	Regulation of neurogenesis by neurotrophins in developing spinal sensory ganglia. <i>Brain Research Bulletin</i> , 2002, 57, 809-816.	1.4	48
60	Sensing life: regulation of sensory neuron survival by neurotrophins. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 1787-1802.	2.4	61
61	Spatial Shaping of Cochlear Innervation by Temporally Regulated Neurotrophin Expression. <i>Journal of Neuroscience</i> , 2001, 21, 6170-6180.	1.7	279
62	Mice Lacking Î±-Synuclein Display Functional Deficits in the Nigrostriatal Dopamine System. <i>Neuron</i> , 2000, 25, 239-252.	3.8	1,573
63	Alterations in size, number, and morphology of gustatory papillae and taste buds in BDNF null mutant mice demonstrate neural dependence of developing taste organs. <i>Journal of Comparative Neurology</i> , 1999, 409, 13-24.	0.9	102
64	Neurotrophin actions during the development of the peripheral nervous system. <i>Microscopy Research and Technique</i> , 1999, 45, 233-242.	1.2	87
65	NT-3, like NGF, Is Required for Survival of Sympathetic Neurons, but Not Their Precursors. <i>Developmental Biology</i> , 1999, 210, 411-427.	0.9	127
66	Wnt3a <sup>-/-</sup> -like phenotype and limb deficiency in Lef1 <sup>-/-</sup> Tcf1 <sup>-/-</sup> mice. <i>Genes and Development</i> , 1999, 13, 709-717.	2.7	426
67	Alterations in size, number, and morphology of gustatory papillae and taste buds in BDNF null mutant mice demonstrate neural dependence of developing taste organs. , 1999, 409, 13.		1
68	GFRÎ±1 Is an Essential Receptor Component for GDNF in the Developing Nervous System and Kidney. <i>Neuron</i> , 1998, 21, 53-62.	3.8	513
69	Characterization of Neurotrophin and Trk Receptor Functions in Developing Sensory Ganglia. <i>Neuron</i> , 1998, 21, 325-334.	3.8	178
70	Effects of neurotrophin and neurotrophin receptor disruption on the afferent inner ear innervation. <i>Seminars in Cell and Developmental Biology</i> , 1997, 8, 277-284.	2.3	76
71	The role of neurotrophic factors in regulating the development of inner ear innervation. <i>Trends in Neurosciences</i> , 1997, 20, 159-164.	4.2	190
72	Brain-derived neurotrophic factor regulates maturation of the DARPP-32 phenotype in striatal medium spiny neurons: studies in vivo and in vitro. <i>Neuroscience</i> , 1997, 79, 509-516.	1.1	71

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73	Lack of Neurotrophin 3 Causes Losses of Both Classes of Spiral Ganglion Neurons in the Cochlea in a Region-Specific Fashion. <i>Journal of Neuroscience</i> , 1997, 17, 6213-6225.	1.7	156
74	A Reciprocal Cell-Cell Interaction Mediated by NT-3 and Neuregulins Controls the Early Survival and Development of Sympathetic Neuroblasts. <i>Neuron</i> , 1996, 16, 515-527.	3.8	129
75	Lack of Neurotrophin-3 Results in Death of Spinal Sensory Neurons and Premature Differentiation of Their Precursors. <i>Neuron</i> , 1996, 17, 1065-1078.	3.8	222
76	Neurotrophin-3 Is a Survival Factor In Vivo for Early Mouse Trigeminal Neurons. <i>Journal of Neuroscience</i> , 1996, 16, 7661-7669.	1.7	85
77	Neurotrophic factors and their receptors: implications of genetic studies. <i>Seminars in Neuroscience</i> , 1996, 8, 133-143.	2.3	30
78	Renal and neuronal abnormalities in mice lacking GDNF. <i>Nature</i> , 1996, 382, 76-79.	13.7	1,212
79	Lef1 expression is activated by BMP-4 and regulates inductive tissue interactions in tooth and hair development.. <i>Genes and Development</i> , 1996, 10, 1382-1394.	2.7	381
80	Neurotrophins: Essential Functions In Vivo Characterized by Targeted Gene Mutations. , 1995, , 315-333.		2
81	Development of several organs that require inductive epithelial-mesenchymal interactions is impaired in LEF-1-deficient mice.. <i>Genes and Development</i> , 1994, 8, 2691-2703.	2.7	859
82	Severe sensory and sympathetic deficits in mice lacking neurotrophin-3. <i>Nature</i> , 1994, 369, 658-661.	13.7	621
83	The Presynaptic Cell Determines the Number of Synapses in the Drosophila Optic Ganglia. <i>European Journal of Neuroscience</i> , 1994, 6, 1423-1431.	1.2	22
84	Targeted disruption of the BDNF gene perturbs brain and sensory neuron development but not motor neuron development. <i>Cell</i> , 1994, 76, 989-999.	13.5	1,005
85	Chandelier cells in the hippocampal formation of the rat: The entorhinal area and subicular complex. <i>Journal of Comparative Neurology</i> , 1993, 337, 151-167.	0.9	32
86	High resolution labeling of cholinergic nerve terminals using a specific fully active biotinylated botulinum neurotoxin type A. <i>Journal of Neuroscience Research</i> , 1993, 36, 635-645.	1.3	9
87	Calcium channel antagonist omega-conotoxin binds to intramembrane particles of isolated nerve terminals. <i>Neuroscience</i> , 1993, 54, 745-752.	1.1	9
88	Omega-conotoxin differentially blocks acetylcholine and adenosine triphosphate releases from Torpedo synaptosomes. <i>Neuroscience</i> , 1992, 47, 641-648.	1.1	33
89	The pyramidal neuron of the cerebral cortex: Morphological and chemical characteristics of the synaptic inputs. <i>Progress in Neurobiology</i> , 1992, 39, 563-607.	2.8	842
90	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. I. The cell body. <i>Journal of Comparative Neurology</i> , 1991, 304, 53-69.	0.9	91

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91	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. II. The axon initial segment. <i>Journal of Comparative Neurology</i> , 1991, 304, 70-77.	0.9	126
92	Glutamate-positive neurons and axon terminals in cat sensory cortex: A correlative light and electron microscopic study. <i>Journal of Comparative Neurology</i> , 1989, 290, 141-153.	0.9	59
93	Ultrastructure of putative migrating cells in the cerebral cortex of <i>Lacerta galloti</i> . <i>Journal of Morphology</i> , 1986, 189, 189-197.	0.6	42