# MarÃ-a Isabel FariÃ±as GÃ³mez

List of Publications by Year
in descending order

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|---|---|---|---|
| 93 papers | 14,793 citations | 41344 49 h-index | 48315 88 g-index |
| 97 all docs | 97 docs citations | 97 times ranked | 14831 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mice Lacking Î±-Synuclein Display Functional Deficits in the Nigrostriatal Dopamine System. Neuron, 2000, 25, 239-252. | 8.1 | 1,573 |
| 2 | Renal and neuronal abnormalities in mice lacking GDNF. Nature, 1996, 382, 76-79. | 27.8 | 1,212 |
| 3 | Targeted disruption of the BDNF gene perturbs brain and sensory neuron development but not motor neuron development. Cell, 1994, 76, 989-999. | 28.9 | 1,005 |
| 4 | Development of several organs that require inductive epithelial-mesenchymal interactions is impaired in LEF-1-deficient mice.. Genes and Development, 1994, 8, 2691-2703. | 5.9 | 859 |
| 5 | The pyramidal neuron of the cerebral cortex: Morphological and chemical characteristics of the synaptic inputs. Progress in Neurobiology, 1992, 39, 563-607. | 5.7 | 842 |
| 6 | Severe sensory and sympathetic deficits in mice lacking neurotrophin-3. Nature, 1994, 369, 658-661. | 27.8 | 621 |
| 7 | Satb2 Regulates Callosal Projection Neuron Identity in the Developing Cerebral Cortex. Neuron, 2008, 57, 364-377. | 8.1 | 581 |
| 8 | Lewy body extracts from Parkinson disease brains trigger Î±â€synuclein pathology and neurodegeneration in mice and monkeys. Annals of Neurology, 2014, 75, 351-362. | 5.3 | 521 |
| 9 | GFRÎ±1 Is an Essential Receptor Component for GDNF in the Developing Nervous System and Kidney. Neuron, 1998, 21, 53-62. | 8.1 | 513 |
| 10 | SATB2 Is a Multifunctional Determinant of Craniofacial Patterning and Osteoblast Differentiation. Cell, 2006, 125, 971-986. | 28.9 | 458 |
| 11 | Pigment epitheliumâ€“derived factor is a niche signal for neural stem cell renewal. Nature Neuroscience, 2006, 9, 331-339. | 14.8 | 427 |
| 12 | Wnt3a-/--like phenotype and limb deficiency in Lef1-/-Tcf1-/- mice. Genes and Development, 1999, 13, 709-717. | 5.9 | 426 |
| 13 | Signaling through BMPR-IA Regulates Quiescence and Long-Term Activity of Neural Stem Cells in the Adult Hippocampus. Cell Stem Cell, 2010, 7, 78-89. | 11.1 | 417 |
| 14 | Lef1 expression is activated by BMP-4 and regulates inductive tissue interactions in tooth and hair development.. Genes and Development, 1996, 10, 1382-1394. | 5.9 | 381 |
| 15 | Spatial Shaping of Cochlear Innervation by Temporally Regulated Neurotrophin Expression. Journal of Neuroscience, 2001, 21, 6170-6180. | 3.6 | 279 |
| 16 | Postnatal loss of Dlk1 imprinting in stem cells and niche astrocytes regulates neurogenesis. Nature, 2011, 475, 381-385. | 27.8 | 247 |
| 17 | Lack of Neurotrophin-3 Results in Death of Spinal Sensory Neurons and Premature Differentiation of Their Precursors. Neuron, 1996, 17, 1065-1078. | 8.1 | 222 |
| 18 | Vascular niche factor PEDF modulates Notch-dependent stemness in the adult subependymal zone. Nature Neuroscience, 2009, 12, 1514-1523. | 14.8 | 206 |

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|---|---|---|---|
| 19 | The role of neurotrophic factors in regulating the development of inner ear innervation. Trends in Neurosciences, 1997, 20, 159-164. | 8.6 | 190 |
| 20 | Characterization of Neurotrophin and Trk Receptor Functions in Developing Sensory Ganglia. Neuron, 1998, 21, 325-334. | 8.1 | 178 |
| 21 | Cyclin-Dependent Kinase Inhibitor p21 Controls Adult Neural Stem Cell Expansion by Regulating Sox2 Gene Expression. Cell Stem Cell, 2013, 12, 88-100. | 11.1 | 164 |
| 22 | Telomere Shortening in Neural Stem Cells Disrupts Neuronal Differentiation and Neuritogenesis. Journal of Neuroscience, 2009, 29, 14394-14407. | 3.6 | 163 |
| 23 | Glial precursors clear sensory neuron corpses during development via Jedi-1, an engulfment receptor. Nature Neuroscience, 2009, 12, 1534-1541. | 14.8 | 157 |
| 24 | Lack of Neurotrophin 3 Causes Losses of Both Classes of Spiral Ganglion Neurons in the Cochlea in a Region-Specific Fashion. Journal of Neuroscience, 1997, 17, 6213-6225. | 3.6 | 156 |
| 25 | Endothelial NT-3 Delivered by Vasculature and CSF Promotes Quiescence of Subependymal Neural Stem Cells through Nitric Oxide Induction. Neuron, 2014, 83, 572-585. | 8.1 | 156 |
| 26 | Telomere shortening and chromosomal instability abrogates proliferation of adult but not embryonic neural stem cells. Development (Cambridge), 2004, 131, 4059-4070. | 2.5 | 133 |
| 27 | A Reciprocal Cellâ€“Cell Interaction Mediated by NT-3 and Neuregulins Controls the Early Survival and Development of Sympathetic Neuroblasts. Neuron, 1996, 16, 515-527. | 8.1 | 129 |
| 28 | NT-3, like NGF, Is Required for Survival of Sympathetic Neurons, but Not Their Precursors. Developmental Biology, 1999, 210, 411-427. | 2.0 | 127 |
| 29 | Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. II. The axon initial segment. Journal of Comparative Neurology, 1991, 304, 70-77. | 1.6 | 126 |
| 30 | Alterations in size, number, and morphology of gustatory papillae and taste buds in BDNF null mutant mice demonstrate neural dependence of developing taste organs. Journal of Comparative Neurology, 1999, 409, 13-24. | 1.6 | 102 |
| 31 | Selective Î±-Synuclein Knockdown in Monoamine Neurons by Intranasal Oligonucleotide Delivery: Potential Therapy for Parkinsonâ€™s Disease. Molecular Therapy, 2018, 26, 550-567. | 8.2 | 97 |
| 32 | Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. I. The cell body. Journal of Comparative Neurology, 1991, 304, 53-69. | 1.6 | 91 |
| 33 | Neurotrophin actions during the development of the peripheral nervous system. Microscopy Research and Technique, 1999, 45, 233-242. | 2.2 | 87 |
| 34 | A combined ex/in vivo assay to detect effects of exogenously added factors in neural stem cells. Nature Protocols, 2007, 2, 849-859. | 12.0 | 87 |
| 35 | Neurotrophin-3 Is a Survival FactorIn Vivofor Early Mouse Trigeminal Neurons. Journal of Neuroscience, 1996, 16, 7661-7669. | 3.6 | 85 |
| 36 | MT5-MMP regulates adult neural stem cell functional quiescence through the cleavage of N-cadherin. Nature Cell Biology, 2014, 16, 629-638. | 10.3 | 85 |

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|---|---|---|---|
| 37 | Erbb2 regulates neuromuscular synapse formation and is essential for muscle spindle development. Development (Cambridge), 2003, 130, 2291-2301. | 2.5 | 84 |
| 38 | Adult Neural Stem Cells Are Alerted by Systemic Inflammation through TNF-Î± Receptor Signaling. Cell Stem Cell, 2021, 28, 285-299.e9. | 11.1 | 80 |
| 39 | Effects of neurotrophin and neurotrophin receptor disruption on the afferent inner ear innervation. Seminars in Cell and Developmental Biology, 1997, 8, 277-284. | 5.0 | 76 |
| 40 | Brain-derived neurotrophic factor regulates maturation of the DARPP-32 phenotype in striatal medium spiny neurons: studies in vivo and in vitro. Neuroscience, 1997, 79, 509-516. | 2.3 | 71 |
| 41 | Regulated Segregation of Kinase Dyrk1A during Asymmetric Neural Stem Cell Division Is Critical for EGFR-Mediated Biased Signaling. Cell Stem Cell, 2010, 7, 367-379. | 11.1 | 71 |
| 42 | Metalloproteinase MT5-MMP is an essential modulator of neuro-immune interactions in thermal pain stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16451-16456. | 7.1 | 69 |
| 43 | Transcriptional repression of Bmp2 by p21Waf1/Cip1 links quiescence to neural stem cell maintenance. Nature Neuroscience, 2013, 16, 1567-1575. | 14.8 | 64 |
| 44 | Selective Glial Cell Line-Derived Neurotrophic Factor Production in Adult Dopaminergic Carotid Body Cells In Situ and after Intrastriatal Transplantation. Journal of Neuroscience, 2005, 25, 4091-4098. | 3.6 | 62 |
| 45 | Sensing life: regulation of sensory neuron survival by neurotrophins. Cellular and Molecular Life Sciences, 2002, 59, 1787-1802. | 5.4 | 61 |
| 46 | Cell expression of GDAP1 in the nervous system and pathogenesis of Charcotâ€Marieâ€Tooth type 4A disease. Journal of Cellular and Molecular Medicine, 2008, 12, 679-689. | 3.6 | 61 |
| 47 | Glutamate-positive neurons and axon terminals in cat sensory cortex: A correlative light and electron microscopic study. Journal of Comparative Neurology, 1989, 290, 141-153. | 1.6 | 59 |
| 48 | The APC/C cofactor Cdh1 prevents replicative stress and p53-dependent cell death in neural progenitors. Nature Communications, 2013, 4, 2880. | 12.8 | 54 |
| 49 | The Cyclin-Dependent Kinase Inhibitor p27kip1 Regulates Radial Stem Cell Quiescence and Neurogenesis in the Adult Hippocampus. Stem Cells, 2015, 33, 219-229. | 3.2 | 53 |
| 50 | Î±-Synuclein Expression Levels Do Not Significantly Affect Proteasome Function and Expression in Mice and Stably Transfected PC12 Cell Lines. Journal of Biological Chemistry, 2004, 279, 52984-52990. | 3.4 | 49 |
| 51 | Regulation of neurogenesis by neurotrophins in developing spinal sensory ganglia. Brain Research Bulletin, 2002, 57, 809-816. | 3.0 | 48 |
| 52 | Isolation, culture and analysis of adult subependymal neural stem cells. Differentiation, 2016, 91, 28-41. | 1.9 | 47 |
| 53 | Ultrastructure of putative migrating cells in the cerebral cortex ofLacerta galloti. Journal of Morphology, 1986, 189, 189-197. | 1.2 | 42 |
| 54 | p73 is required for ependymal cell maturation and neurogenic <scp>SVZ</scp> cytoarchitecture. Developmental Neurobiology, 2016, 76, 730-747. | 3.0 | 42 |

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|---|---|---|---|
| 55 | BDNF, but not NT-4, is necessary for normal development of Meissner corpuscles. Neuroscience Letters, 2005, 377, 12-15. | 2.1 | 39 |
| 56 | High-resolution mouse subventricular zone stem-cell niche transcriptome reveals features of lineage, anatomy, and aging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31448-31458. | 7.1 | 39 |
| 57 | Ikarosâ€1 couples cell cycle arrest of late striatal precursors with neurogenesis of enkephalinergic neurons. Journal of Comparative Neurology, 2010, 518, 329-351. | 1.6 | 36 |
| 58 | Omega-conotoxin differentially blocks acetylcholine and adenosine triphosphate releases from Torpedo synaptosomes. Neuroscience, 1992, 47, 641-648. | 2.3 | 33 |
| 59 | Chandelier cells in the hippocampal formation of the rat: The entorhinal area and subicular complex. Journal of Comparative Neurology, 1993, 337, 151-167. | 1.6 | 32 |
| 60 | Role of p27Kip1 as a transcriptional regulator. Oncotarget, 2018, 9, 26259-26278. | 1.8 | 32 |
| 61 | Symmetric Expansion of Neural Stem Cells from the Adult Olfactory Bulb Is Driven by Astrocytes Via WNT7A. Stem Cells, 2012, 30, 2796-2809. | 3.2 | 31 |
| 62 | Neurotrophic factors and their receptors: implications of genetic studies. Seminars in Neuroscience, 1996, 8, 133-143. | 2.2 | 30 |
| 63 | Cyclin-Dependent Kinase 4 Regulates Adult Neural Stem Cell Proliferation and Differentiation in Response to Insulin. Stem Cells, 2017, 35, 2403-2416. | 3.2 | 29 |
| 64 | BDNF is essentially required for the early postnatal survival of nociceptors. Developmental Biology, 2010, 339, 465-476. | 2.0 | 27 |
| 65 | Characterization and isolation of immature neurons of the adult mouse piriform cortex. Developmental Neurobiology, 2016, 76, 748-763. | 3.0 | 23 |
| 66 | The Presynaptic Cell Determines the Number of Synapses in the Drosophila Optic Ganglia. European Journal of Neuroscience, 1994, 6, 1423-1431. | 2.6 | 22 |
| 67 | Regulation of the p19 Arf /p53 pathway by histone acetylation underlies neural stem cell behavior in senescenceâ€prone SAMP8 mice. Aging Cell, 2015, 14, 453-462. | 6.7 | 22 |
| 68 | Interaction between Angiotensin Type 1, Type 2, and Mas Receptors to Regulate Adult Neurogenesis in the Brain Ventricularâ€“Subventricular Zone. Cells, 2019, 8, 1551. | 4.1 | 22 |
| 69 | Stressor-related impairment of synaptic transmission in hippocampal slices from Î±-synuclein knockout mice. European Journal of Neuroscience, 2004, 20, 3085-3091. | 2.6 | 18 |
| 70 | Synaptic Regulator Î±-Synuclein in Dopaminergic Fibers Is Essentially Required for the Maintenance of Subependymal Neural Stem Cells. Journal of Neuroscience, 2018, 38, 814-825. | 3.6 | 16 |
| 71 | Physiological Interactions between Microglia and Neural Stem Cells in the Adult Subependymal Niche. Neuroscience, 2019, 405, 77-91. | 2.3 | 16 |
| 72 | Abnormal development of pacinian corpuscles in double trkB;trkC knockout mice. Neuroscience Letters, 2006, 410, 157-161. | 2.1 | 13 |

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|---|---|---|---|
| 73 | Perivascular nerve fiber Î±-synuclein regulates contractility of mouse aorta: A link to autonomic dysfunction in Parkinson's disease. Neurochemistry International, 2010, 56, 991-998. | 3.8 | 13 |
| 74 | Evolutionary conserved role of eukaryotic translation factor eIF5A in the regulation of actin-nucleating formins. Scientific Reports, 2017, 7, 9580. | 3.3 | 11 |
| 75 | Vulnerability of peripheral catecholaminergic neurons to MPTP is not regulated by Î±-synuclein. Neurobiology of Disease, 2010, 38, 92-103. | 4.4 | 10 |
| 76 | High resolution labeling of cholinergic nerve terminals using a specific fully active biotinylated botulinum neurotoxin type A. Journal of Neuroscience Research, 1993, 36, 635-645. | 2.9 | 9 |
| 77 | Calcium channel antagonist omega-conotoxin binds to intramembrane particles of isolated nerve terminals. Neuroscience, 1993, 54, 745-752. | 2.3 | 9 |
| 78 | Prosurvival effect of human wild-type Î±-synuclein on MPTP-induced toxicity to central but not peripheral catecholaminergic neurons isolated from transgenic mice. Neuroscience, 2010, 167, 261-276. | 2.3 | 9 |
| 79 | NT3/TrkC Pathway Modulates the Expression of UCP-1 and Adipocyte Size in Human and Rodent Adipose Tissue. Frontiers in Endocrinology, 2021, 12, 630097. | 3.5 | 9 |
| 80 | Vascular Senescence: A Potential Bridge Between Physiological Aging and Neurogenic Decline. Frontiers in Neuroscience, 2021, 15, 666881. | 2.8 | 9 |
| 81 | IRS2 signalling is required for the development of a subset of sensory spinal neurons. European Journal of Neuroscience, 2012, 35, 341-352. | 2.6 | 8 |
| 82 | Cell population analysis of the adult murine subependymal neurogenic lineage by flow cytometry. STAR Protocols, 2021, 2, 100425. | 1.2 | 8 |
| 83 | Spanish Cell Therapy Network (TerCel): 15 years of successful collaborative translational research. Cytotherapy, 2020, 22, 1-5. | 0.7 | 6 |
| 84 | p27Kip1 regulates alpha-synuclein expression. Oncotarget, 2018, 9, 16368-16379. | 1.8 | 6 |
| 85 | Fetal neurogenesis: breathe <scp>HIF</scp> you can. EMBO Journal, 2016, 35, 901-903. | 7.8 | 2 |
| 86 | Building Bridges through Science. Neuron, 2017, 96, 730-735. | 8.1 | 2 |
| 87 | Neurotrophins: Essential Functions In Vivo Characterized by Targeted Gene Mutations. , 1995, , 315-333. | | 2 |
| 88 | 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. Journal of Visualized Experiments, 2016, , 53282. | 0.3 | 1 |
| 89 | Behavioral evaluation of aging in experimental animals. , 2021, , 553-564. | | 1 |
| 90 | 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 |

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|---|---|---|---|
| 91 | NO Hemodynamic Speed Limit for Hippocampal Neurogenesis. Neuron, 2019, 103, 752-754. | 8.1 | 0 |
| 92 | Abstract 3015: Precise investigation of cancer stem cells in mouse glioblastoma. , 2018, , . | | 0 |
| 93 | Acute lymphoblastic leukemia cells are able to infiltrate the brain subventricular zone stem cell niche and impair neurogenesis. Haematologica, 2022, , . | 3.5 | 0 |