Carlos Vicario-AbejÃ³n

List of Publications by Year
in descending order

61 papers	3,358 citations	159585 30 h-index	144013 57 g-index
61 all docs	61 docs citations	61 times ranked	4865 citing authors

#	Article	IF	Citations
1	Neurotrophins Induce Formation of Functional Excitatory and Inhibitory Synapses between Cultured Hippocampal Neurons. Journal of Neuroscience, 1998, 18, 7256-7271.	3.6	327
2	Functions of basic fibroblast growth factor and neurotrophins in the differentiation of hippocampal neurons. Neuron, 1995, 15, 105-114.	8.1	295
3	Targeted Genomic Disruption of H- ras and N- ras , Individually or in Combination, Reveals the Dispensability of Both Loci for Mouse Growth and Development. Molecular and Cellular Biology, 2001, 21, 1444-1452.	2.3	265
4	Role of neurotrophins in central synapse formation and stabilization. Nature Reviews Neuroscience, 2002, 3, 965-974.	10.2	227
5	IGF-I: A Key Growth Factor that Regulates Neurogenesis and Synaptogenesis from Embryonic to Adult Stages of the Brain. Frontiers in Neuroscience, 2016, 10, 52.	2.8	199
6	Modulation of the PI 3-kinaseâ€"Akt signalling pathway by IGF-I and PTEN regulates the differentiation of neural stem/precursor cells. Journal of Cell Science, 2006, 119, 2739-2748.	2.0	128
7	Locally Born Olfactory Bulb Stem Cells Proliferate in Response to Insulin-Related Factors and Require Endogenous Insulin-Like Growth Factor-I for Differentiation into Neurons and Glia. Journal of Neuroscience, 2003, 23, 895-906.	3.6	122
8	IGFâ€I promotes neuronal migration and positioning in the olfactory bulb and the exit of neuroblasts from the subventricular zone. European Journal of Neuroscience, 2009, 30, 742-755.	2.6	114
9	Cerebellar precursors transplanted to the neonatal dentate gyrus express features characteristic of hippocampal neurons. Journal of Neuroscience, 1995, 15, 6351-6363.	3.6	105
10	Lactate Utilization by Isolated Cells from Early Neonatal Rat Brain. Journal of Neurochemistry, 1991, 57, 1700-1707.	3.9	87
11	N370S<i>â€GBA1</i> mutation causes lysosomal cholesterol accumulation in Parkinson's disease. Movement Disorders, 2017, 32, 1409-1422.	3.9	86
12	Hippocampal stem cells differentiate into excitatory and inhibitory neurons. European Journal of Neuroscience, 2000, 12, 677-688.	2.6	83
13	Neurotrophins act at presynaptic terminals to activate synapses among cultured hippocampal neurons. European Journal of Neuroscience, 2001, 13, 1273-1282.	2.6	75
14	Dedifferentiated adult articular chondrocytes: a population of human multipotent primitive cells. Experimental Cell Research, 2004, 297, 313-328.	2.6	75
15	Selective Vulnerability in Striosomes and in the Nigrostriatal Dopaminergic Pathway After Methamphetamine Administration. Neurotoxicity Research, 2010, 18, 48-58.	2.7	75
16	L-DOPA-induced increase in TH-immunoreactive striatal neurons in parkinsonian mice: Insights into regulation and function. Neurobiology of Disease, 2012, 48, 271-281.	4.4	59
17	Generation of GABAergic and dopaminergic interneurons from endogenous embryonic olfactory bulb precursor cells. Development (Cambridge), 2006, 133, 4367-4379.	2.5	57
18	Maintenance of Undifferentiated State and Self-Renewal of Embryonic Neural Stem Cells by Polycomb Protein Ring1B. Stem Cells, 2009, 27, 1559-1570.	3.2	57

#	Article	IF	Citations
19	Regulation of Lactate Metabolism by Albumin in Rat Neurons and Astrocytes from Primary Culture. Pediatric Research, 1993, 34, 709-715.	2.3	56
20	Lactate spares glucose as a metabolic fuel in neurons and astrocytes from primary culture. Neuroscience Research, 1996, 26, 369-376.	1.9	53
21	Cholesterol and multilamellar bodies: Lysosomal dysfunction in <i>GBA</i>-Parkinson disease. Autophagy, 2018, 14, 717-718.	9.1	49
22	The T-box brain 1 (Tbr1) transcription factor inhibits astrocyte formation in the olfactory bulb and regulates neural stem cell fate. Molecular and Cellular Neurosciences, 2011, 46, 108-121.	2.2	47
23	Pax6 Is Essential for the Maintenance and Multi-Lineage Differentiation of Neural Stem Cells, and for Neuronal Incorporation into the Adult Olfactory Bulb. Stem Cells and Development, 2014, 23, 2813-2830.	2.1	45
24	Fibroblast growth factor-2 increases the expression of neurogenic genes and promotes the migration and differentiation of neurons derived from transplanted neural stem/progenitor cells. Neuroscience, 2009, 162, 39-54.	2.3	42
25	Thermally reduced graphene is a permissive material for neurons and astrocytes and de novo neurogenesis in the adult olfactory bulb inÂvivo. Biomaterials, 2016, 82, 84-93.	11.4	42
26	Transgenic mice for interleukin 3 develop motor neuron degeneration associated with autoimmune reaction against spinal cord motor neurons. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11354-11359.	7.1	41
27	Absence of hematopoiesis from transplanted olfactory bulb neural stem cells. European Journal of Neuroscience, 2004, 19, 505-512.	2.6	40
28	Brain Insulin-Like Growth Factor-I Directs the Transition from Stem Cells to Mature Neurons During Postnatal/Adult Hippocampal Neurogenesis. Stem Cells, 2016, 34, 2194-2209.	3.2	40
29	Metabolism of Lactate in the Rat Brain During the Early Neonatal Period. Journal of Neurochemistry, 1992, 59, 32-40.	3.9	35
30	Developmental cooperation of leukemia inhibitory factor and insulin-like growth factor I in mice is tissue-specific and essential for lung maturation involving the transcription factors Sp3 and TTF-1. Mechanisms of Development, 2003, 120, 349-361.	1.7	33
31	<i>Helios</i>Transcription Factor Expression Depends on<i>Gsx2</i>and<i>Dlx1&2</i>Function in Developing Striatal Matrix Neurons. Stem Cells and Development, 2012, 21, 2239-2251.	2.1	31
32	Survival and synaptogenesis of hippocampal neurons without NMDA receptor function in culture. European Journal of Neuroscience, 1998, 10, 2192-2198.	2.6	29
33	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. Frontiers in Bioengineering and Biotechnology, 2016, 4, 94.	4.1	29
34	Nolz1 promotes striatal neurogenesis through the regulation of retinoic acid signaling. Neural Development, 2010, 5, 21.	2.4	28
35	Transcriptional Regulation of Olfactory Bulb Neurogenesis. Anatomical Record, 2013, 296, 1364-1382.	1.4	28
36	A Global Transcriptome Analysis Reveals Molecular Hallmarks of Neural Stem Cell Death, Survival, and Differentiation in Response to Partial FGF-2 and EGF Deprivation. PLoS ONE, 2013, 8, e53594.	2.5	28

#	Article	IF	Citations
37	Nurr1 blocks the mitogenic effect of <scp>FGF</scp>â€2 and <scp>EGF</scp>, inducing olfactory bulb neural stem cells to adopt dopaminergic and dopaminergicâ€<scp>GABA</scp>ergic neuronal phenotypes. Developmental Neurobiology, 2015, 75, 823-841.	3.0	26
38	Lack of adrenomedullin affects growth and differentiation of adult neural stem/progenitor cells. Cell and Tissue Research, 2010, 340, 1-11.	2.9	24
39	The Homeobox Gene Gsx2 Regulates the Self-Renewal and Differentiation of Neural Stem Cells and the Cell Fate of Postnatal Progenitors. PLoS ONE, 2012, 7, e29799.	2.5	20
40	Role of Nurr1 in the Generation and Differentiation of Dopaminergic Neurons from Stem Cells. Neurotoxicity Research, 2016, 30, 14-31.	2.7	20
41	<i>Helios</i> expression coordinates the development of a subset of striatopallidal medium spiny neurons. Development (Cambridge), 2017, 144, 1566-1577.	2.5	17
42	Longâ€Term Culture of Hippocampal Neurons. Current Protocols in Neuroscience, 2004, 26, Unit 3.2.	2.6	16
43	Neural Stem Cells in the Adult Olfactory Bulb Core Generate Mature Neurons inâ€‰Vivo. Stem Cells, 2021, 39, 1253-1269.	3.2	16
44	SoxD genes are required for adult neural stem cell activation. Cell Reports, 2022, 38, 110313.	6.4	16
45	Fuel Supply to the Brain During the Early Postnatal Period. , 1990, , 175-194.		14
46	Mice lacking IGF-I and LIF have motoneuron deficits in brain stem nuclei. NeuroReport, 2004, 15, 2769-72.	1.2	14
47	Effect of Postnatal Hypoxia on Ammonia Metabolism during the Early Neonatal Period in the Rat. Neonatology, 1990, 57, 119-125.	2.0	8
48	Role of Adrenomedullin in the Growth and Differentiation of Stem and Progenitor Cells. International Review of Cell and Molecular Biology, 2012, 297, 175-234.	3.2	7
49	Tbr1 Misexpression Alters Neuronal Development in the Cerebral Cortex. Molecular Neurobiology, 2022, 59, 5750-5765.	4.0	7
50	Retinal and olfactory bulb precursor cells show distinct responses to FGF-2 and laminin. Cell Biology International, 2007, 31, 752-758.	3.0	5
51	A collection of integration-free iPSCs derived from Parkinson's disease patients carrying mutations in the GBA1 gene. Stem Cell Research, 2019, 38, 101482.	0.7	3
52	Distinct Effects of BDNF and NT-3 on the Dendrites and Presynaptic Boutons of Developing Olfactory Bulb GABAergic Interneurons In Vitro. Cellular and Molecular Neurobiology, 2022, 42, 1399-1417.	3.3	3
53	The fate of lactate in isolated cells from early neonatal rat brain. Comparison with glucose and 3-hydroxybutyrate. Biochemical Society Transactions, 1991, 19, 141S-141S.	3.4	2
54	Generation of an integration-free iPSC line, ICCSICi006-A, derived from a male Alzheimer's disease patient carrying the PSEN1-G206D mutation. Stem Cell Research, 2019, 40, 101574.	0.7	2

#	Article	IF	Citations
55	A collection of three integration-free iPSCs derived from old male and female healthy subjects. Stem Cell Research, 2020, 42, 101663.	0.7	2
56	A collection of four integration-free iPSC lines derived from diagnosed sporadic Alzheimer's disease patients with different APOE alleles. Stem Cell Research, 2019, 39, 101522.	0.7	1
57	An integration-free iPSC line, ICCSICi007-A, derived from a female Alzheimer's disease patient with the APOE-Îµ4/Îµ4 alleles. Stem Cell Research, 2019, 41, 101588.	0.7	1
58	Generation of an integration-free iPSC line, ICCSICi005-A, derived from a Parkinson's disease patient carrying the L444P mutation in the GBA1 gene. Stem Cell Research, 2019, 40, 101578.	0.7	1
59	Generation of a set of isogenic iPSC lines carrying all APOE genetic variants (Æ2/Æ3/Æ4) and knock-out for the study of APOE biology in health and disease. Stem Cell Research, 2021, 52, 102180.	0.7	1
60	Regulation of lipogenesis from lactate in isolated cells from early neonatal rat brain. Biochemical Society Transactions, 1991, 19, 140S-140S.	3.4	0
61	Morphological Diversity of Calretinin Interneurons Generated From Adult Mouse Olfactory Bulb Core Neural Stem Cells. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	0