Arturo Alvarez-Buylla

List of Publications by Year in Descending Order

88 papers	23,567 citations	55 h-index	94 g-index
94 ext. papers	26,854 ext. citations	17.1 avg, IF	7.09 L-index

#	Paper	IF	Citations
88	GLI3 Is Required for OLIG2+ Progeny Production in Adult Dorsal Neural Stem Cells.. *Cells*, **2022**, 11,	7.9	1
87	Nests of dividing neuroblasts sustain interneuron production for the developing human brain.. *Science*, **2022**, 375, eabk2346	33.3	1
86	Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis".. *Science*, **2022**, 376, eabn8861	33.3	2
85	Individual human cortical progenitors can produce excitatory and inhibitory neurons.. *Nature*, **2021**,	50.4	5
84	Positive Controls in Adults and Children Support That Very Few, If Any, New Neurons Are Born in the Adult Human Hippocampus. *Journal of Neuroscience*, **2021**, 41, 2554-2565	6.6	32
83	Single-cell analysis of the ventricular-subventricular zone reveals signatures of dorsal and ventral adult neurogenesis. *ELife*, **2021**, 10,	8.9	8
82	Maintenance of neural stem cell positional identity by. *Science*, **2020**, 368, 48-53	33.3	11
81	Clustered gamma-protocadherins regulate cortical interneuron programmed cell death. *ELife*, **2020**, 9,	8.9	13
80	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. *Cell*, **2020**, 182, 594-608.e11	56.2	36
79	A protein assembly mediates Xist localization and gene silencing. *Nature*, **2020**, 587, 145-151	50.4	52
78	Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex. *Journal of Neuroscience*, **2019**, 39, 2635-2648	6.6	7
77	Immature excitatory neurons develop during adolescence in the human amygdala. *Nature Communications*, **2019**, 10, 2748	17.4	46
76	Development of Ependymal and Postnatal Neural Stem Cells and Their Origin from a Common Embryonic Progenitor. *Cell Reports*, **2019**, 27, 429-441.e3	10.6	43
75	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. *Neuron*, **2019**, 102, 143-158.e7	13.9	36
74	Transplanted Cells Are Essential for the Induction But Not the Expression of Cortical Plasticity. *Journal of Neuroscience*, **2019**, 39, 7529-7538	6.6	7
73	Neural stem cells: origin, heterogeneity and regulation in the adult mammalian brain. *Development (Cambridge)*, **2019**, 146,	6.6	187
72	Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. *Nature*, **2018**, 555, 377-381	50.4	742

71	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. *Cancer Cell*, **2018**, 33, 874-889.e7	24.3	111
70	Activity Regulates Cell Death within Cortical Interneurons through a Calcineurin-Dependent Mechanism. *Cell Reports*, **2018**, 22, 1695-1709	10.6	41
69	Adult Neurogenesis Is Sustained by Symmetric Self-Renewal and Differentiation. *Cell Stem Cell*, **2018**, 22, 221-234.e8	18	117
68	Secretagogin is Expressed by Developing Neocortical GABAergic Neurons in Humans but not Mice and Increases Neurite Arbor Size and Complexity. *Cerebral Cortex*, **2018**, 28, 1946-1958	5.1	20
67	Transcription Factors Sp8 and Sp9 Coordinately Regulate Olfactory Bulb Interneuron Development. *Cerebral Cortex*, **2018**, 28, 3278-3294	5.1	33
66	Does Adult Neurogenesis Persist in the Human Hippocampus?. *Cell Stem Cell*, **2018**, 23, 780-781	18	63
65	A tension-mediated glycocalyx-integrin feedback loop promotes mesenchymal-like glioblastoma. *Nature Cell Biology*, **2018**, 20, 1203-1214	23.4	60
64	Bi- and uniciliated ependymal cells define continuous floor-plate-derived tanycytic territories. *Nature Communications*, **2017**, 8, 13759	17.4	47
63	Acute Lesioning and Rapid Repair of Hypothalamic Neurons outside the Blood-Brain Barrier. *Cell Reports*, **2017**, 19, 2257-2271	10.6	30
62	Development and long-term integration of MGE-lineage cortical interneurons in the heterochronic environment. *Journal of Neurophysiology*, **2017**, 118, 131-139	3.2	9
61	Transplantation of GABAergic interneurons for cell-based therapy. *Progress in Brain Research*, **2017**, 231, 57-85	2.9	16
60	Unique Organization of the Nuclear Envelope in the Post-natal Quiescent Neural Stem Cells. *Stem Cell Reports*, **2017**, 9, 203-216	8	19
59	Identification of proliferative progenitors associated with prominent postnatal growth of the pons. *Nature Communications*, **2016**, 7, 11628	17.4	21
58	Planar Organization of Multiciliated Ependymal (E1) Cells in the Brain Ventricular Epithelium. *Trends in Neurosciences*, **2016**, 39, 543-551	13.3	46
57	Zika virus cell tropism in the developing human brain and inhibition by azithromycin. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14408-14413	11.5	327
56	The Adult Ventricular-Subventricular Zone (V-SVZ) and Olfactory Bulb (OB) Neurogenesis. *Cold Spring Harbor Perspectives in Biology*, **2016**, 8,	10.2	283
55	Caudal Ganglionic Eminence Precursor Transplants Disperse and Integrate as Lineage-Specific Interneurons but Do Not Induce Cortical Plasticity. *Cell Reports*, **2016**, 16, 1391-1404	10.6	23
54	Extensive migration of young neurons into the infant human frontal lobe. *Science*, **2016**, 354,	33.3	209

53	Brain size and limits to adult neurogenesis. *Journal of Comparative Neurology*, **2016**, 524, 646-64	3.4	76
52	Embryonic Origin of Postnatal Neural Stem Cells. *Cell*, **2015**, 161, 1644-55	56.2	283
51	Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain Ventricular Epithelium. *Journal of Neuroscience*, **2015**, 35, 11153-68	6.6	38
50	Viral-mediated Labeling and Transplantation of Medial Ganglionic Eminence (MGE) Cells for In Vivo Studies. *Journal of Visualized Experiments*, **2015**,	1.6	19
49	A Dorsal SHH-Dependent Domain in the V-SVZ Produces Large Numbers of Oligodendroglial Lineage Cells in the Postnatal Brain. *Stem Cell Reports*, **2015**, 5, 461-70	8	50
48	Wide Dispersion and Diversity of Clonally Related Inhibitory Interneurons. *Neuron*, **2015**, 87, 999-1007	13.9	68
47	A cortical disinhibitory circuit for enhancing adult plasticity. *ELife*, **2015**, 4, e05558	8.9	122
46	Astrocyte development and heterogeneity. *Cold Spring Harbor Perspectives in Biology*, **2014**, 7, a020362	10.2	203
45	Axonal control of the adult neural stem cell niche. *Cell Stem Cell*, **2014**, 14, 500-11	18	101
44	Interneurons from embryonic development to cell-based therapy. *Science*, **2014**, 344, 1240622	33.3	131
43	Adult neural stem cells in distinct microdomains generate previously unknown interneuron types. *Nature Neuroscience*, **2014**, 17, 207-14	25.5	180
42	SnapShot: adult neurogenesis in the V-SVZ. *Neuron*, **2014**, 81, 220-220.e1	13.9	22
41	Adult neural stem cells stake their ground. *Trends in Neurosciences*, **2014**, 37, 563-71	13.3	126
40	Inhibitory interneuron progenitor transplantation restores normal learning and memory in ApoE4 knock-in mice without or with A□accumulation. *Journal of Neuroscience*, **2014**, 34, 9506-15	6.6	79
39	Loss of Dishevelleds disrupts planar polarity in ependymal motile cilia and results in hydrocephalus. *Neuron*, **2014**, 83, 558-71	13.9	90
38	Primary cilia are required in a unique subpopulation of neural progenitors. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12438-43	11.5	79
37	Neocortical integration of transplanted GABA progenitor cells from wild type and GABA(B) receptor knockout mouse donors. *Neuroscience Letters*, **2014**, 561, 52-7	3.3	7
36	Sonic hedgehog signaling in the postnatal brain. *Seminars in Cell and Developmental Biology*, **2014**, 33, 105-11	7.5	69

35	Restricted nature of adult neural stem cells: re-evaluation of their potential for brain repair. *Frontiers in Neuroscience*, **2014**, 8, 162	5.1	40
34	Axons take a dive: Specialized contacts of serotonergic axons with cells in the walls of the lateral ventricles in mice and humans. *Neurogenesis (Austin, Tex)*, **2014**, 1,		3
33	Cortical plasticity induced by transplantation of embryonic somatostatin or parvalbumin interneurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18339-44	11.5	64
32	Distinct and separable roles for EZH2 in neurogenic astroglia. *ELife*, **2014**, 3, e02439	8.9	50
31	Cell cycle and lineage progression of neural progenitors in the ventricular-subventricular zones of adult mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E1045-54	11.5	170
30	Non-epithelial stem cells and cortical interneuron production in the human ganglionic eminences. *Nature Neuroscience*, **2013**, 16, 1576-87	25.5	193
29	Adult neural stem cells bridge their niche. *Cell Stem Cell*, **2012**, 10, 698-708	18	262
28	Regional astrocyte allocation regulates CNS synaptogenesis and repair. *Science*, **2012**, 337, 358-62	33.3	341
27	Intrinsically determined cell death of developing cortical interneurons. *Nature*, **2012**, 491, 109-13	50.4	207
26	Corridors of migrating neurons in the human brain and their decline during infancy. *Nature*, **2011**, 478, 382-6	50.4	608
25	Lake-front property: a unique germinal niche by the lateral ventricles of the adult brain. *Neuron*, **2011**, 70, 674-86	13.9	272
24	Persistent sonic hedgehog signaling in adult brain determines neural stem cell positional identity. *Neuron*, **2011**, 71, 250-62	13.9	190
23	Cortical plasticity induced by inhibitory neuron transplantation. *Science*, **2010**, 327, 1145-8	33.3	229
22	Chromatin remodelling factor Mll1 is essential for neurogenesis from postnatal neural stem cells. *Nature*, **2009**, 458, 529-33	50.4	300
21	The glial nature of embryonic and adult neural stem cells. *Annual Review of Neuroscience*, **2009**, 32, 149-84	17	1639
20	Neural stem cells confer unique pinwheel architecture to the ventricular surface in neurogenic regions of the adult brain. *Cell Stem Cell*, **2008**, 3, 265-78	18	751
19	A subpopulation of olfactory bulb GABAergic interneurons is derived from Emx1- and Dlx5/6-expressing progenitors. *Journal of Neuroscience*, **2007**, 27, 6878-91	6.6	194
18	Mosaic organization of neural stem cells in the adult brain. *Science*, **2007**, 317, 381-4	33.3	646

17	Cortical inhibition modified by embryonic neural precursors grafted into the postnatal brain. *Journal of Neuroscience*, **2006**, 26, 7380-9	6.6	144
16	Origin of oligodendrocytes in the subventricular zone of the adult brain. *Journal of Neuroscience*, **2006**, 26, 7907-18	6.6	743
15	New neurons follow the flow of cerebrospinal fluid in the adult brain. *Science*, **2006**, 311, 629-32	33.3	604
14	Adult ependymal cells are postmitotic and are derived from radial glial cells during embryogenesis. *Journal of Neuroscience*, **2005**, 25, 10-8	6.6	529
13	Pax6 is required for making specific subpopulations of granule and periglomerular neurons in the olfactory bulb. *Journal of Neuroscience*, **2005**, 25, 6997-7003	6.6	275
12	Radial glia give rise to adult neural stem cells in the subventricular zone. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17528-32	11.5	631
11	Cell types, lineage, and architecture of the germinal zone in the adult dentate gyrus. *Journal of Comparative Neurology*, **2004**, 478, 359-78	3.4	479
10	For the long run: maintaining germinal niches in the adult brain. *Neuron*, **2004**, 41, 683-6	13.9	1134
9	Postnatal development of radial glia and the ventricular zone (VZ): a continuum of the neural stem cell compartment. *Cerebral Cortex*, **2003**, 13, 580-7	5.1	288
8	Maturation and death of adult-born olfactory bulb granule neurons: role of olfaction. *Journal of Neuroscience*, **2002**, 22, 6106-13	6.6	569
7	Astrocytes give rise to new neurons in the adult mammalian hippocampus. *Journal of Neuroscience*, **2001**, 21, 7153-60	6.6	1187
6	Unsupervised learning and adaptation in a model of adult neurogenesis. *Journal of Computational Neuroscience*, **2001**, 11, 175-82	1.4	93
5	Noggin antagonizes BMP signaling to create a niche for adult neurogenesis. *Neuron*, **2000**, 28, 713-26	13.9	891
4	Young neurons from medial ganglionic eminence disperse in adult and embryonic brain. *Nature Neuroscience*, **1999**, 2, 461-6	25.5	393
3	Subventricular zone astrocytes are neural stem cells in the adult mammalian brain. *Cell*, **1999**, 97, 703-16	56.2	3173
2	Cellular composition and three-dimensional organization of the subventricular germinal zone in the adult mammalian brain. *Journal of Neuroscience*, **1997**, 17, 5046-61	6.6	1468
1	Proliferation "hot spots" in adult avian ventricular zone reveal radial cell division. *Neuron*, **1990**, 5, 101-9	13.9	275