

Arturo Alvarez-Buylla

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Subventricular zone astrocytes are neural stem cells in the adult mammalian brain. <i>Cell</i> , 1999 , 97, 703-16	6.2	3173
87	The glial nature of embryonic and adult neural stem cells. <i>Annual Review of Neuroscience</i> , 2009 , 32, 149-84	8.4	1639
86	Cellular composition and three-dimensional organization of the subventricular germinal zone in the adult mammalian brain. <i>Journal of Neuroscience</i> , 1997 , 17, 5046-61	6.6	1468
85	Astrocytes give rise to new neurons in the adult mammalian hippocampus. <i>Journal of Neuroscience</i> , 2001 , 21, 7153-60	6.6	1187
84	For the long run: maintaining germinal niches in the adult brain. <i>Neuron</i> , 2004 , 41, 683-6	13.9	1134
83	Noggin antagonizes BMP signaling to create a niche for adult neurogenesis. <i>Neuron</i> , 2000 , 28, 713-26	13.9	891
82	Neural stem cells confer unique pinwheel architecture to the ventricular surface in neurogenic regions of the adult brain. <i>Cell Stem Cell</i> , 2008 , 3, 265-78	18	751
81	Origin of oligodendrocytes in the subventricular zone of the adult brain. <i>Journal of Neuroscience</i> , 2006 , 26, 7907-18	6.6	743
80	Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. <i>Nature</i> , 2018 , 555, 377-381	50.4	742
79	Mosaic organization of neural stem cells in the adult brain. <i>Science</i> , 2007 , 317, 381-4	33.3	646
78	Radial glia give rise to adult neural stem cells in the subventricular zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17528-32	11.5	631
77	Corridors of migrating neurons in the human brain and their decline during infancy. <i>Nature</i> , 2011 , 478, 382-6	50.4	608
76	New neurons follow the flow of cerebrospinal fluid in the adult brain. <i>Science</i> , 2006 , 311, 629-32	33.3	604
75	Maturation and death of adult-born olfactory bulb granule neurons: role of olfaction. <i>Journal of Neuroscience</i> , 2002 , 22, 6106-13	6.6	569
74	Adult ependymal cells are postmitotic and are derived from radial glial cells during embryogenesis. <i>Journal of Neuroscience</i> , 2005 , 25, 10-8	6.6	529
73	Cell types, lineage, and architecture of the germinal zone in the adult dentate gyrus. <i>Journal of Comparative Neurology</i> , 2004 , 478, 359-78	3.4	479
72	Young neurons from medial ganglionic eminence disperse in adult and embryonic brain. <i>Nature Neuroscience</i> , 1999 , 2, 461-6	25.5	393

71	Regional astrocyte allocation regulates CNS synaptogenesis and repair. <i>Science</i> , 2012 , 337, 358-62	33.3	341
70	Zika virus cell tropism in the developing human brain and inhibition by azithromycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14408-14413	11.5	327
69	Chromatin remodelling factor Mll1 is essential for neurogenesis from postnatal neural stem cells. <i>Nature</i> , 2009 , 458, 529-33	50.4	300
68	Postnatal development of radial glia and the ventricular zone (VZ): a continuum of the neural stem cell compartment. <i>Cerebral Cortex</i> , 2003 , 13, 580-7	5.1	288
67	Embryonic Origin of Postnatal Neural Stem Cells. <i>Cell</i> , 2015 , 161, 1644-55	56.2	283
66	The Adult Ventricular-Subventricular Zone (V-SVZ) and Olfactory Bulb (OB) Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016 , 8,	10.2	283
65	Pax6 is required for making specific subpopulations of granule and periglomerular neurons in the olfactory bulb. <i>Journal of Neuroscience</i> , 2005 , 25, 6997-7003	6.6	275
64	Proliferation "hot spots" in adult avian ventricular zone reveal radial cell division. <i>Neuron</i> , 1990 , 5, 101-9	13.9	275
63	Lake-front property: a unique germinal niche by the lateral ventricles of the adult brain. <i>Neuron</i> , 2011 , 70, 674-86	13.9	272
62	Adult neural stem cells bridge their niche. <i>Cell Stem Cell</i> , 2012 , 10, 698-708	18	262
61	Cortical plasticity induced by inhibitory neuron transplantation. <i>Science</i> , 2010 , 327, 1145-8	33.3	229
60	Extensive migration of young neurons into the infant human frontal lobe. <i>Science</i> , 2016 , 354,	33.3	209
59	Intrinsically determined cell death of developing cortical interneurons. <i>Nature</i> , 2012 , 491, 109-13	50.4	207
58	Astrocyte development and heterogeneity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 7, a020362	10.2	203
57	A subpopulation of olfactory bulb GABAergic interneurons is derived from Emx1- and Dlx5/6-expressing progenitors. <i>Journal of Neuroscience</i> , 2007 , 27, 6878-91	6.6	194
56	Non-epithelial stem cells and cortical interneuron production in the human ganglionic eminences. <i>Nature Neuroscience</i> , 2013 , 16, 1576-87	25.5	193
55	Persistent sonic hedgehog signaling in adult brain determines neural stem cell positional identity. <i>Neuron</i> , 2011 , 71, 250-62	13.9	190
54	Neural stem cells: origin, heterogeneity and regulation in the adult mammalian brain. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	187

53	Adult neural stem cells in distinct microdomains generate previously unknown interneuron types. <i>Nature Neuroscience</i> , 2014 , 17, 207-14	25.5	180
52	Cell cycle and lineage progression of neural progenitors in the ventricular-subventricular zones of adult mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1045-54	11.5	170
51	Cortical inhibition modified by embryonic neural precursors grafted into the postnatal brain. <i>Journal of Neuroscience</i> , 2006 , 26, 7380-9	6.6	144
50	Interneurons from embryonic development to cell-based therapy. <i>Science</i> , 2014 , 344, 1240622	33.3	131
49	Adult neural stem cells stake their ground. <i>Trends in Neurosciences</i> , 2014 , 37, 563-71	13.3	126
48	A cortical disinhibitory circuit for enhancing adult plasticity. <i>ELife</i> , 2015 , 4, e05558	8.9	122
47	Adult Neurogenesis Is Sustained by Symmetric Self-Renewal and Differentiation. <i>Cell Stem Cell</i> , 2018 , 22, 221-234.e8	18	117
46	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. <i>Cancer Cell</i> , 2018 , 33, 874-889.e7	24.3	111
45	Axonal control of the adult neural stem cell niche. <i>Cell Stem Cell</i> , 2014 , 14, 500-11	18	101
44	Unsupervised learning and adaptation in a model of adult neurogenesis. <i>Journal of Computational Neuroscience</i> , 2001 , 11, 175-82	1.4	93
43	Loss of Dishevelleds disrupts planar polarity in ependymal motile cilia and results in hydrocephalus. <i>Neuron</i> , 2014 , 83, 558-71	13.9	90
42	Inhibitory interneuron progenitor transplantation restores normal learning and memory in ApoE4 knock-in mice without or with A β accumulation. <i>Journal of Neuroscience</i> , 2014 , 34, 9506-15	6.6	79
41	Primary cilia are required in a unique subpopulation of neural progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12438-43	11.5	79
40	Brain size and limits to adult neurogenesis. <i>Journal of Comparative Neurology</i> , 2016 , 524, 646-64	3.4	76
39	Sonic hedgehog signaling in the postnatal brain. <i>Seminars in Cell and Developmental Biology</i> , 2014 , 33, 105-11	7.5	69
38	Wide Dispersion and Diversity of Clonally Related Inhibitory Interneurons. <i>Neuron</i> , 2015 , 87, 999-1007	13.9	68
37	Cortical plasticity induced by transplantation of embryonic somatostatin or parvalbumin interneurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18339-44	11.5	64
36	Does Adult Neurogenesis Persist in the Human Hippocampus?. <i>Cell Stem Cell</i> , 2018 , 23, 780-781	18	63

35	A tension-mediated glyocalyx-integrin feedback loop promotes mesenchymal-like glioblastoma. <i>Nature Cell Biology</i> , 2018 , 20, 1203-1214	23.4	60
34	A protein assembly mediates Xist localization and gene silencing. <i>Nature</i> , 2020 , 587, 145-151	50.4	52
33	A Dorsal SHH-Dependent Domain in the V-SVZ Produces Large Numbers of Oligodendroglial Lineage Cells in the Postnatal Brain. <i>Stem Cell Reports</i> , 2015 , 5, 461-70	8	50
32	Distinct and separable roles for EZH2 in neurogenic astroglia. <i>ELife</i> , 2014 , 3, e02439	8.9	50
31	Bi- and unciliated ependymal cells define continuous floor-plate-derived tuncytic territories. <i>Nature Communications</i> , 2017 , 8, 13759	17.4	47
30	Immature excitatory neurons develop during adolescence in the human amygdala. <i>Nature Communications</i> , 2019 , 10, 2748	17.4	46
29	Planar Organization of Multiciliated Ependymal (E1) Cells in the Brain Ventricular Epithelium. <i>Trends in Neurosciences</i> , 2016 , 39, 543-551	13.3	46
28	Development of Ependymal and Postnatal Neural Stem Cells and Their Origin from a Common Embryonic Progenitor. <i>Cell Reports</i> , 2019 , 27, 429-441.e3	10.6	43
27	Activity Regulates Cell Death within Cortical Interneurons through a Calcineurin-Dependent Mechanism. <i>Cell Reports</i> , 2018 , 22, 1695-1709	10.6	41
26	Restricted nature of adult neural stem cells: re-evaluation of their potential for brain repair. <i>Frontiers in Neuroscience</i> , 2014 , 8, 162	5.1	40
25	Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain Ventricular Epithelium. <i>Journal of Neuroscience</i> , 2015 , 35, 11153-68	6.6	38
24	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. <i>Neuron</i> , 2019 , 102, 143-158.e7	13.9	36
23	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. <i>Cell</i> , 2020 , 182, 594-608.e1156.2	15.6	36
22	Transcription Factors Sp8 and Sp9 Coordinately Regulate Olfactory Bulb Interneuron Development. <i>Cerebral Cortex</i> , 2018 , 28, 3278-3294	5.1	33
21	Positive Controls in Adults and Children Support That Very Few, If Any, New Neurons Are Born in the Adult Human Hippocampus. <i>Journal of Neuroscience</i> , 2021 , 41, 2554-2565	6.6	32
20	Acute Lesioning and Rapid Repair of Hypothalamic Neurons outside the Blood-Brain Barrier. <i>Cell Reports</i> , 2017 , 19, 2257-2271	10.6	30
19	Caudal Ganglionic Eminence Precursor Transplants Disperse and Integrate as Lineage-Specific Interneurons but Do Not Induce Cortical Plasticity. <i>Cell Reports</i> , 2016 , 16, 1391-1404	10.6	23
18	SnapShot: adult neurogenesis in the V-SVZ. <i>Neuron</i> , 2014 , 81, 220-220.e1	13.9	22

17	Identification of proliferative progenitors associated with prominent postnatal growth of the pons. <i>Nature Communications</i> , 2016 , 7, 11628	17.4	21
16	Secretagogin is Expressed by Developing Neocortical GABAergic Neurons in Humans but not Mice and Increases Neurite Arbor Size and Complexity. <i>Cerebral Cortex</i> , 2018 , 28, 1946-1958	5.1	20
15	Viral-mediated Labeling and Transplantation of Medial Ganglionic Eminence (MGE) Cells for In Vivo Studies. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	19
14	Unique Organization of the Nuclear Envelope in the Post-natal Quiescent Neural Stem Cells. <i>Stem Cell Reports</i> , 2017 , 9, 203-216	8	19
13	Transplantation of GABAergic interneurons for cell-based therapy. <i>Progress in Brain Research</i> , 2017 , 231, 57-85	2.9	16
12	Clustered gamma-protocadherins regulate cortical interneuron programmed cell death. <i>ELife</i> , 2020 , 9,	8.9	13
11	Maintenance of neural stem cell positional identity by. <i>Science</i> , 2020 , 368, 48-53	33.3	11
10	Development and long-term integration of MGE-lineage cortical interneurons in the heterochronic environment. <i>Journal of Neurophysiology</i> , 2017 , 118, 131-139	3.2	9
9	Single-cell analysis of the ventricular-subventricular zone reveals signatures of dorsal and ventral adult neurogenesis. <i>ELife</i> , 2021 , 10,	8.9	8
8	Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2019 , 39, 2635-2648	6.6	7
7	Transplanted Cells Are Essential for the Induction But Not the Expression of Cortical Plasticity. <i>Journal of Neuroscience</i> , 2019 , 39, 7529-7538	6.6	7
6	Neocortical integration of transplanted GABA progenitor cells from wild type and GABA(B) receptor knockout mouse donors. <i>Neuroscience Letters</i> , 2014 , 561, 52-7	3.3	7
5	Individual human cortical progenitors can produce excitatory and inhibitory neurons.. <i>Nature</i> , 2021 ,	50.4	5
4	Axons take a dive: Specialized contacts of serotonergic axons with cells in the walls of the lateral ventricles in mice and humans. <i>Neurogenesis (Austin, Tex)</i> , 2014 , 1,		3
3	Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis".. <i>Science</i> , 2022 , 376, eabn8861	33.3	2
2	GLI3 Is Required for OLIG2+ Progeny Production in Adult Dorsal Neural Stem Cells.. <i>Cells</i> , 2022 , 11,	7.9	1
1	Nests of dividing neuroblasts sustain interneuron production for the developing human brain.. <i>Science</i> , 2022 , 375, eabk2346	33.3	1