

Arturo Alvarez-Buylla

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

28,970
citations

20797

60
h-index

45285

90
g-index

94
all docs

94
docs citations

94
times ranked

20958
citing authors

#	ARTICLE	IF	CITATIONS
1	Subventricular Zone Astrocytes Are Neural Stem Cells in the Adult Mammalian Brain. <i>Cell</i> , 1999, 97, 703-716.	13.5	3,557
2	The Glial Nature of Embryonic and Adult Neural Stem Cells. <i>Annual Review of Neuroscience</i> , 2009, 32, 149-184.	5.0	2,067
3	Cellular Composition and Three-Dimensional Organization of the Subventricular Germinal Zone in the Adult Mammalian Brain. <i>Journal of Neuroscience</i> , 1997, 17, 5046-5061.	1.7	1,670
4	Astrocytes Give Rise to New Neurons in the Adult Mammalian Hippocampus. <i>Journal of Neuroscience</i> , 2001, 21, 7153-7160.	1.7	1,366
5	For the Long Run. <i>Neuron</i> , 2004, 41, 683-686.	3.8	1,241
6	Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. <i>Nature</i> , 2018, 555, 377-381.	13.7	1,074
7	Noggin Antagonizes BMP Signaling to Create a Niche for Adult Neurogenesis. <i>Neuron</i> , 2000, 28, 713-726.	3.8	999
8	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, 265-278.	5.2	885
9	Origin of Oligodendrocytes in the Subventricular Zone of the Adult Brain. <i>Journal of Neuroscience</i> , 2006, 26, 7907-7918.	1.7	872
10	Corridors of migrating neurons in the human brain and their decline during infancy. <i>Nature</i> , 2011, 478, 382-386.	13.7	741
11	Mosaic Organization of Neural Stem Cells in the Adult Brain. <i>Science</i> , 2007, 317, 381-384.	6.0	730
12	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, 17528-17532.	3.3	727
13	New Neurons Follow the Flow of Cerebrospinal Fluid in the Adult Brain. <i>Science</i> , 2006, 311, 629-632.	6.0	708
14	Maturation and Death of Adult-Born Olfactory Bulb Granule Neurons: Role of Olfaction. <i>Journal of Neuroscience</i> , 2002, 22, 6106-6113.	1.7	622
15	Adult Ependymal Cells Are Postmitotic and Are Derived from Radial Glial Cells during Embryogenesis. <i>Journal of Neuroscience</i> , 2005, 25, 10-18.	1.7	621
16	Cell types, lineage, and architecture of the germinal zone in the adult dentate gyrus. <i>Journal of Comparative Neurology</i> , 2004, 478, 359-378.	0.9	552
17	Regional Astrocyte Allocation Regulates CNS Synaptogenesis and Repair. <i>Science</i> , 2012, 337, 358-362.	6.0	448
18	Young neurons from medial ganglionic eminence disperse in adult and embryonic brain. <i>Nature Neuroscience</i> , 1999, 2, 461-466.	7.1	445

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19	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.	3.3	432
20	The Adult Ventricularâ€“Subventricular Zone (V-SVZ) and Olfactory Bulb (OB) Neurogenesis. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018820.	2.3	431
21	Embryonic Origin of Postnatal Neural Stem Cells. Cell, 2015, 161, 1644-1655.	13.5	403
22	Neural stem cells: origin, heterogeneity and regulation in the adult mammalian brain. Development (Cambridge), 2019, 146, .	1.2	377
23	Chromatin remodelling factor Mll1 is essential for neurogenesis from postnatal neural stem cells. Nature, 2009, 458, 529-533.	13.7	356
24	Postnatal Development of Radial Glia and the Ventricular Zone (VZ): a Continuum of the Neural Stem Cell Compartment. Cerebral Cortex, 2003, 13, 580-587.	1.6	327
25	Adult Neural Stem Cells Bridge Their Niche. Cell Stem Cell, 2012, 10, 698-708.	5.2	314
26	Lake-Front Property: A Unique Germinal Niche by the Lateral Ventricles of the Adult Brain. Neuron, 2011, 70, 674-686.	3.8	312
27	Pax6 Is Required for Making Specific Subpopulations of Granule and Periglomerular Neurons in the Olfactory Bulb. Journal of Neuroscience, 2005, 25, 6997-7003.	1.7	306
28	Proliferation â€œhot spotsâ€•in adult avian ventricular zone reveal radial cell division. Neuron, 1990, 5, 101-109.	3.8	304
29	Intrinsically determined cell death of developing cortical interneurons. Nature, 2012, 491, 109-113.	13.7	293
30	Extensive migration of young neurons into the infant human frontal lobe. Science, 2016, 354, .	6.0	293
31	Astrocyte Development and Heterogeneity. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020362.	2.3	275
32	Cortical Plasticity Induced by Inhibitory Neuron Transplantation. Science, 2010, 327, 1145-1148.	6.0	256
33	Non-epithelial stem cells and cortical interneuron production in the human ganglionic eminences. Nature Neuroscience, 2013, 16, 1576-1587.	7.1	253
34	A Subpopulation of Olfactory Bulb GABAergic Interneurons Is Derived from Emx1- and Dlx5/6-Expressing Progenitors. Journal of Neuroscience, 2007, 27, 6878-6891.	1.7	229
35	Persistent Sonic Hedgehog Signaling in Adult Brain Determines Neural Stem Cell Positional Identity. Neuron, 2011, 71, 250-262.	3.8	226
36	Adult neural stem cells in distinct microdomains generate previously unknown interneuron types. Nature Neuroscience, 2014, 17, 207-214.	7.1	222

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37	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.	3.3	212
38	Adult Neurogenesis Is Sustained by Symmetric Self-Renewal and Differentiation. <i>Cell Stem Cell</i> , 2018, 22, 221-234.e8.	5.2	184
39	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. <i>Cancer Cell</i> , 2018, 33, 874-889.e7.	7.7	180
40	Cortical Inhibition Modified by Embryonic Neural Precursors Grafted into the Postnatal Brain. <i>Journal of Neuroscience</i> , 2006, 26, 7380-7389.	1.7	170
41	A cortical disinhibitory circuit for enhancing adult plasticity. <i>ELife</i> , 2015, 4, e05558.	2.8	165
42	Interneurons from Embryonic Development to Cell-Based Therapy. <i>Science</i> , 2014, 344, 1240622.	6.0	162
43	Adult neural stem cells stake their ground. <i>Trends in Neurosciences</i> , 2014, 37, 563-571.	4.2	145
44	A protein assembly mediates Xist localization and gene silencing. <i>Nature</i> , 2020, 587, 145-151.	13.7	123
45	Loss of Dishevelleds Disrupts Planar Polarity in Ependymal Motile Cilia and Results in Hydrocephalus. <i>Neuron</i> , 2014, 83, 558-571.	3.8	121
46	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, 12438-12443.	3.3	118
47	Axonal Control of the Adult Neural Stem Cell Niche. <i>Cell Stem Cell</i> , 2014, 14, 500-511.	5.2	117
48	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. <i>Cell</i> , 2020, 182, 594-608.e11.	13.5	110
49	Sonic hedgehog signaling in the postnatal brain. <i>Seminars in Cell and Developmental Biology</i> , 2014, 33, 105-111.	2.3	109
50	Inhibitory Interneuron Progenitor Transplantation Restores Normal Learning and Memory in ApoE4 Knock-In Mice without or with A β 2 Accumulation. <i>Journal of Neuroscience</i> , 2014, 34, 9506-9515.	1.7	107
51	Brain size and limits to adult neurogenesis. <i>Journal of Comparative Neurology</i> , 2016, 524, 646-664.	0.9	107
52	A tension-mediated glyocalyx-integrin feedback loop promotes mesenchymal-like glioblastoma. <i>Nature Cell Biology</i> , 2018, 20, 1203-1214.	4.6	103
53	Unsupervised learning and adaptation in a model of adult neurogenesis. <i>Journal of Computational Neuroscience</i> , 2001, 11, 175-182.	0.6	98
54	Does Adult Neurogenesis Persist in the Human Hippocampus?. <i>Cell Stem Cell</i> , 2018, 23, 780-781.	5.2	95

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55	Immature excitatory neurons develop during adolescence in the human amygdala. <i>Nature Communications</i> , 2019, 10, 2748.	5.8	95
56	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.	1.7	90
57	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.	2.9	86
58	Wide Dispersion and Diversity of Clonally Related Inhibitory Interneurons. <i>Neuron</i> , 2015, 87, 999-1007.	3.8	84
59	Bi- and unciliated ependymal cells define continuous floor-plate-derived tanycytic territories. <i>Nature Communications</i> , 2017, 8, 13759.	5.8	80
60	Activity Regulates Cell Death within Cortical Interneurons through a Calcineurin-Dependent Mechanism. <i>Cell Reports</i> , 2018, 22, 1695-1709.	2.9	80
61	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, 18339-18344.	3.3	76
62	Individual human cortical progenitors can produce excitatory and inhibitory neurons. <i>Nature</i> , 2022, 601, 397-403.	13.7	73
63	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, 461-470.	2.3	70
64	Planar Organization of Multiciliated Ependymal (E1) Cells in the Brain Ventricular Epithelium. <i>Trends in Neurosciences</i> , 2016, 39, 543-551.	4.2	65
65	Single-cell analysis of the ventricular-subventricular zone reveals signatures of dorsal and ventral adult neurogenesis. <i>ELife</i> , 2021, 10, .	2.8	62
66	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. <i>Neuron</i> , 2019, 102, 143-158.e7.	3.8	61
67	Distinct and separable roles for EZH2 in neurogenic astroglia. <i>ELife</i> , 2014, 3, e02439.	2.8	60
68	Transcription Factors Sp8 and Sp9 Coordinately Regulate Olfactory Bulb Interneuron Development. <i>Cerebral Cortex</i> , 2018, 28, 3278-3294.	1.6	50
69	Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain Ventricular Epithelium. <i>Journal of Neuroscience</i> , 2015, 35, 11153-11168.	1.7	47
70	Restricted nature of adult neural stem cells: re-evaluation of their potential for brain repair. <i>Frontiers in Neuroscience</i> , 2014, 8, 162.	1.4	46
71	Acute Lesioning and Rapid Repair of Hypothalamic Neurons outside the Blood-Brain Barrier. <i>Cell Reports</i> , 2017, 19, 2257-2271.	2.9	42
72	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.	1.6	34

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73	Clustered gamma-protocadherins regulate cortical interneuron programmed cell death. <i>ELife</i> , 2020, 9, .	2.8	33
74	Unique Organization of the Nuclear Envelope in the Post-natal Quiescent Neural Stem Cells. <i>Stem Cell Reports</i> , 2017, 9, 203-216.	2.3	32
75	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.	2.9	31
76	Identification of proliferative progenitors associated with prominent postnatal growth of the pons. <i>Nature Communications</i> , 2016, 7, 11628.	5.8	29
77	Viral-mediated Labeling and Transplantation of Medial Ganglionic Eminence (MGE) Cells for In Vivo&/em> Studies. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	27
78	SnapShot: Adult Neurogenesis in the V-SVZ. <i>Neuron</i> , 2014, 81, 220-220.e1.	3.8	26
79	Maintenance of neural stem cell positional identity by <i>mixed-lineage leukemia 1</i>. <i>Science</i> , 2020, 368, 48-53.	6.0	24
80	Transplantation of GABAergic interneurons for cell-based therapy. <i>Progress in Brain Research</i> , 2017, 231, 57-85.	0.9	17
81	Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 2635-2648.	1.7	14
82	Nests of dividing neuroblasts sustain interneuron production for the developing human brain. <i>Science</i> , 2022, 375, eabk2346.	6.0	13
83	Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis". <i>Science</i> , 2022, 376, eabn8861.	6.0	13
84	Neocortical integration of transplanted GABA progenitor cells from wild type and GABAB receptor knockout mouse donors. <i>Neuroscience Letters</i> , 2014, 561, 52-57.	1.0	11
85	Development and long-term integration of MGE-lineage cortical interneurons in the heterochronic environment. <i>Journal of Neurophysiology</i> , 2017, 118, 131-139.	0.9	11
86	Transplanted Cells Are Essential for the Induction But Not the Expression of Cortical Plasticity. <i>Journal of Neuroscience</i> , 2019, 39, 7529-7538.	1.7	11
87	GLI3 Is Required for OLIG2+ Progeny Production in Adult Dorsal Neural Stem Cells. <i>Cells</i> , 2022, 11, 218.	1.8	4
88	Axons take a dive. <i>Neurogenesis (Austin, Tex)</i> , 2014, 1, e29341.	1.5	3