Arturo Alvarez-Buylla

List of Publications by Year in descending order

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ADTUDO ALVADEZ-RUVILA

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | GLI3 Is Required for OLIG2+ Progeny Production in Adult Dorsal Neural Stem Cells. Cells, 2022, 11, 218. | 4.1 | 4 |
| 2 | Nests of dividing neuroblasts sustain interneuron production for the developing human brain. Science, 2022, 375, eabk2346. | 12.6 | 13 |
| 3 | Individual human cortical progenitors can produce excitatory and inhibitory neurons. Nature, 2022, 601, 397-403. | 27.8 | 73 |
| 4 | Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis― Science, 2022, 376, eabn8861. | 12.6 | 13 |
| 5 | 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. | 3.6 | 90 |
| 6 | Single-cell analysis of the ventricular-subventricular zone reveals signatures of dorsal and ventral adult neurogenesis. ELife, 2021, 10, . | 6.0 | 62 |
| 7 | Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. Cell, 2020, 182, 594-608.e11. | 28.9 | 110 |
| 8 | A protein assembly mediates Xist localization and gene silencing. Nature, 2020, 587, 145-151. | 27.8 | 123 |
| 9 | Maintenance of neural stem cell positional identity by <i>mixed-lineage leukemia 1</i> . Science, 2020, 368, 48-53. | 12.6 | 24 |
| 10 | Clustered gamma-protocadherins regulate cortical interneuron programmed cell death. ELife, 2020, 9, | 6.0 | 33 |
| 11 | Transplanted Cells Are Essential for the Induction But Not the Expression of Cortical Plasticity. Journal of Neuroscience, 2019, 39, 7529-7538. | 3.6 | 11 |
| 12 | Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex. Journal of Neuroscience, 2019, 39, 2635-2648. | 3.6 | 14 |
| 13 | Immature excitatory neurons develop during adolescence in the human amygdala. Nature Communications, 2019, 10, 2748. | 12.8 | 95 |
| 14 | Development of Ependymal and Postnatal Neural Stem Cells and Their Origin from a Common Embryonic Progenitor. Cell Reports, 2019, 27, 429-441.e3. | 6.4 | 86 |
| 15 | Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. Neuron, 2019, 102, 143-158.e7. | 8.1 | 61 |
| 16 | Neural stem cells: origin, heterogeneity and regulation in the adult mammalian brain. Development (Cambridge), 2019, 146, . | 2.5 | 377 |
| 17 | Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. Nature, 2018, 555, 377-381. | 27.8 | 1,074 |
| 18 | A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. Cancer Cell, 2018, 33, 874-889.e7. | 16.8 | 180 |

ARTURO ALVAREZ-BUYLLA

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|----|---|------|-----------|
| 19 | Activity Regulates Cell Death within Cortical Interneurons through a Calcineurin-Dependent Mechanism. Cell Reports, 2018, 22, 1695-1709. | 6.4 | 80 |
| 20 | Adult Neurogenesis Is Sustained by Symmetric Self-Renewal and Differentiation. Cell Stem Cell, 2018, 22, 221-234.e8. | 11.1 | 184 |
| 21 | 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. | 2.9 | 34 |
| 22 | Transcription Factors Sp8 and Sp9 Coordinately Regulate Olfactory Bulb Interneuron Development. Cerebral Cortex, 2018, 28, 3278-3294. | 2.9 | 50 |
| 23 | Does Adult Neurogenesis Persist in the Human Hippocampus?. Cell Stem Cell, 2018, 23, 780-781. | 11.1 | 95 |
| 24 | A tension-mediated glycocalyx–integrin feedback loop promotes mesenchymal-like glioblastoma. Nature Cell Biology, 2018, 20, 1203-1214. | 10.3 | 103 |
| 25 | Bi- and uniciliated ependymal cells define continuous floor-plate-derived tanycytic territories. Nature Communications, 2017, 8, 13759. | 12.8 | 80 |
| 26 | Acute Lesioning and Rapid Repair of Hypothalamic Neurons outside the Blood-Brain Barrier. Cell Reports, 2017, 19, 2257-2271. | 6.4 | 42 |
| 27 | Development and long-term integration of MGE-lineage cortical interneurons in the heterochronic environment. Journal of Neurophysiology, 2017, 118, 131-139. | 1.8 | 11 |
| 28 | Transplantation of GABAergic interneurons for cell-based therapy. Progress in Brain Research, 2017, 231, 57-85. | 1.4 | 17 |
| 29 | Unique Organization of the Nuclear Envelope in the Post-natal Quiescent Neural Stem Cells. Stem Cell Reports, 2017, 9, 203-216. | 4.8 | 32 |
| 30 | Zika virus cell tropism in the developing human brain and inhibition by azithromycin. Proceedings of the United States of America, 2016, 113, 14408-14413. | 7.1 | 432 |
| 31 | The Adult Ventricular–Subventricular Zone (V-SVZ) and Olfactory Bulb (OB) Neurogenesis. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018820. | 5.5 | 431 |
| 32 | Caudal Ganglionic Eminence Precursor Transplants Disperse and Integrate as Lineage-Specific Interneurons but Do Not Induce Cortical Plasticity. Cell Reports, 2016, 16, 1391-1404. | 6.4 | 31 |
| 33 | Extensive migration of young neurons into the infant human frontal lobe. Science, 2016, 354, . | 12.6 | 293 |
| 34 | Brain size and limits to adult neurogenesis. Journal of Comparative Neurology, 2016, 524, 646-664. | 1.6 | 107 |
| 35 | Identification of proliferative progenitors associated with prominent postnatal growth of the pons. Nature Communications, 2016, 7, 11628. | 12.8 | 29 |
| 36 | Planar Organization of Multiciliated Ependymal (E1) Cells in the Brain Ventricular Epithelium. Trends in Neurosciences, 2016, 39, 543-551. | 8.6 | 65 |

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|----|--|------|-----------|
| 37 | Embryonic Origin of Postnatal Neural Stem Cells. Cell, 2015, 161, 1644-1655. | 28.9 | 403 |
| 38 | Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain Ventricular Epithelium. Journal of Neuroscience, 2015, 35, 11153-11168. | 3.6 | 47 |
| 39 | Viral-mediated Labeling and Transplantation of Medial Ganglionic Eminence (MGE) Cells for In Vivo Studies. Journal of Visualized Experiments, 2015, , . | 0.3 | 27 |
| 40 | 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, 461-470. | 4.8 | 70 |
| 41 | Wide Dispersion and Diversity of Clonally Related Inhibitory Interneurons. Neuron, 2015, 87, 999-1007. | 8.1 | 84 |
| 42 | Astrocyte Development and Heterogeneity. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020362. | 5.5 | 275 |
| 43 | A cortical disinhibitory circuit for enhancing adult plasticity. ELife, 2015, 4, e05558. | 6.0 | 165 |
| 44 | Axons take a dive. Neurogenesis (Austin, Tex), 2014, 1, e29341. | 1.5 | 3 |
| 45 | 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, 18339-18344. | 7.1 | 76 |
| 46 | Axonal Control of the Adult Neural Stem Cell Niche. Cell Stem Cell, 2014, 14, 500-511. | 11.1 | 117 |
| 47 | Interneurons from Embryonic Development to Cell-Based Therapy. Science, 2014, 344, 1240622. | 12.6 | 162 |
| 48 | Adult neural stem cells in distinct microdomains generate previously unknown interneuron types. Nature Neuroscience, 2014, 17, 207-214. | 14.8 | 222 |
| 49 | SnapShot: Adult Neurogenesis in the V-SVZ. Neuron, 2014, 81, 220-220.e1. | 8.1 | 26 |
| 50 | Adult neural stem cells stake their ground. Trends in Neurosciences, 2014, 37, 563-571. | 8.6 | 145 |
| 51 | Inhibitory Interneuron Progenitor Transplantation Restores Normal Learning and Memory in ApoE4 Knock-In Mice without or with Aβ Accumulation. Journal of Neuroscience, 2014, 34, 9506-9515. | 3.6 | 107 |
| 52 | Loss of Dishevelleds Disrupts Planar Polarity in Ependymal Motile Cilia and Results in Hydrocephalus. Neuron, 2014, 83, 558-571. | 8.1 | 121 |
| 53 | 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, 12438-12443. | 7.1 | 118 |
| 54 | Neocortical integration of transplanted GABA progenitor cells from wild type and GABAB receptor knockout mouse donors. Neuroscience Letters, 2014, 561, 52-57. | 2.1 | 11 |

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|----|---|------|-----------|
| 55 | Sonic hedgehog signaling in the postnatal brain. Seminars in Cell and Developmental Biology, 2014, 33, 105-111. | 5.0 | 109 |
| 56 | Restricted nature of adult neural stem cells: re-evaluation of their potential for brain repair. Frontiers in Neuroscience, 2014, 8, 162. | 2.8 | 46 |
| 57 | Distinct and separable roles for EZH2 in neurogenic astroglia. ELife, 2014, 3, e02439. | 6.0 | 60 |
| 58 | 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. | 7.1 | 212 |
| 59 | Non-epithelial stem cells and cortical interneuron production in the human ganglionic eminences. Nature Neuroscience, 2013, 16, 1576-1587. | 14.8 | 253 |
| 60 | Intrinsically determined cell death of developing cortical interneurons. Nature, 2012, 491, 109-113. | 27.8 | 293 |
| 61 | Adult Neural Stem Cells Bridge Their Niche. Cell Stem Cell, 2012, 10, 698-708. | 11.1 | 314 |
| 62 | Regional Astrocyte Allocation Regulates CNS Synaptogenesis and Repair. Science, 2012, 337, 358-362. | 12.6 | 448 |
| 63 | Corridors of migrating neurons in the human brain and their decline during infancy. Nature, 2011, 478, 382-386. | 27.8 | 741 |
| 64 | Lake-Front Property: A Unique Germinal Niche by the Lateral Ventricles of the Adult Brain. Neuron, 2011, 70, 674-686. | 8.1 | 312 |
| 65 | Persistent Sonic Hedgehog Signaling in Adult Brain Determines Neural Stem Cell Positional Identity. Neuron, 2011, 71, 250-262. | 8.1 | 226 |
| 66 | Cortical Plasticity Induced by Inhibitory Neuron Transplantation. Science, 2010, 327, 1145-1148. | 12.6 | 256 |
| 67 | Chromatin remodelling factor Mll1 is essential for neurogenesis from postnatal neural stem cells. Nature, 2009, 458, 529-533. | 27.8 | 356 |
| 68 | The Glial Nature of Embryonic and Adult Neural Stem Cells. Annual Review of Neuroscience, 2009, 32, 149-184. | 10.7 | 2,067 |
| 69 | Neural Stem Cells Confer Unique Pinwheel Architecture to the Ventricular Surface in Neurogenic Regions of the Adult Brain. Cell Stem Cell, 2008, 3, 265-278. | 11.1 | 885 |
| 70 | A Subpopulation of Olfactory Bulb GABAergic Interneurons Is Derived from Emx1- and Dlx5/6-Expressing Progenitors. Journal of Neuroscience, 2007, 27, 6878-6891. | 3.6 | 229 |
| 71 | Mosaic Organization of Neural Stem Cells in the Adult Brain. Science, 2007, 317, 381-384. | 12.6 | 730 |
| 72 | Origin of Oligodendrocytes in the Subventricular Zone of the Adult Brain. Journal of Neuroscience, 2006, 26, 7907-7918. | 3.6 | 872 |

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|----|--|------|-----------|
| 73 | New Neurons Follow the Flow of Cerebrospinal Fluid in the Adult Brain. Science, 2006, 311, 629-632. | 12.6 | 708 |
| 74 | Cortical Inhibition Modified by Embryonic Neural Precursors Grafted into the Postnatal Brain. Journal of Neuroscience, 2006, 26, 7380-7389. | 3.6 | 170 |
| 75 | Pax6 Is Required for Making Specific Subpopulations of Granule and Periglomerular Neurons in the Olfactory Bulb. Journal of Neuroscience, 2005, 25, 6997-7003. | 3.6 | 306 |
| 76 | Adult Ependymal Cells Are Postmitotic and Are Derived from Radial Glial Cells during Embryogenesis. Journal of Neuroscience, 2005, 25, 10-18. | 3.6 | 621 |
| 77 | 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, 17528-17532. | 7.1 | 727 |
| 78 | Cell types, lineage, and architecture of the germinal zone in the adult dentate gyrus. Journal of Comparative Neurology, 2004, 478, 359-378. | 1.6 | 552 |
| 79 | For the Long Run. Neuron, 2004, 41, 683-686. | 8.1 | 1,241 |
| 80 | Postnatal Development of Radial Glia and the Ventricular Zone (VZ): a Continuum of the Neural Stem Cell Compartment. Cerebral Cortex, 2003, 13, 580-587. | 2.9 | 327 |
| 81 | Maturation and Death of Adult-Born Olfactory Bulb Granule Neurons: Role of Olfaction. Journal of Neuroscience, 2002, 22, 6106-6113. | 3.6 | 622 |
| 82 | Astrocytes Give Rise to New Neurons in the Adult Mammalian Hippocampus. Journal of Neuroscience, 2001, 21, 7153-7160. | 3.6 | 1,366 |
| 83 | Unsupervised learning and adaptation in a model of adult neurogenesis. Journal of Computational Neuroscience, 2001, 11, 175-182. | 1.0 | 98 |
| 84 | Noggin Antagonizes BMP Signaling to Create a Niche for Adult Neurogenesis. Neuron, 2000, 28, 713-726. | 8.1 | 999 |
| 85 | Young neurons from medial ganglionic eminence disperse in adult and embryonic brain. Nature Neuroscience, 1999, 2, 461-466. | 14.8 | 445 |
| 86 | Subventricular Zone Astrocytes Are Neural Stem Cells in the Adult Mammalian Brain. Cell, 1999, 97, 703-716. | 28.9 | 3,557 |
| 87 | Cellular Composition and Three-Dimensional Organization of the Subventricular Germinal Zone in the Adult Mammalian Brain. Journal of Neuroscience, 1997, 17, 5046-5061. | 3.6 | 1,670 |
| 88 | Proliferation "hot spots―in adult avian ventricular zone reveal radial cell division. Neuron, 1990, 5, 101-109. | 8.1 | 304 |