

# Arnold R Kriegstein

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

21,976  
citations

31976

53  
h-index

60623

81  
g-index

112  
all docs

112  
docs citations

112  
times ranked

27303  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Glial Nature of Embryonic and Adult Neural Stem Cells. Annual Review of Neuroscience, 2009, 32, 149-184.	10.7	2,067
2	Cortical neurons arise in symmetric and asymmetric division zones and migrate through specific phases. Nature Neuroscience, 2004, 7, 136-144.	14.8	1,938
3	The Human Cell Atlas. ELife, 2017, 6, .	6.0	1,547
4	Neurogenic radial glia in the outer subventricular zone of human neocortex. Nature, 2010, 464, 554-561.	27.8	1,150
5	Development and Evolution of the Human Neocortex. Cell, 2011, 146, 18-36.	28.9	1,110
6	Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. Nature, 2018, 555, 377-381.	27.8	1,074
7	Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex. Nature Biotechnology, 2014, 32, 1053-1058.	17.5	850
8	Spatiotemporal gene expression trajectories reveal developmental hierarchies of the human cortex. Science, 2017, 358, 1318-1323.	12.6	717
9	Molecular Identity of Human Outer Radial Glia during Cortical Development. Cell, 2015, 163, 55-67.	28.9	698
10	Single-cell genomics identifies cell type-specific molecular changes in autism. Science, 2019, 364, 685-689.	12.6	600
11	The use of brain organoids to investigate neural development and disease. Nature Reviews Neuroscience, 2017, 18, 573-584.	10.2	528
12	Calcium Waves Propagate through Radial Glial Cells and Modulate Proliferation in the Developing Neocortex. Neuron, 2004, 43, 647-661.	8.1	495
13	Expression Analysis Highlights AXL as a Candidate Zika Virus Entry Receptor in Neural Stem Cells. Cell Stem Cell, 2016, 18, 591-596.	11.1	483
14	Human iPSC-Derived Cerebral Organoids Model Cellular Features of Lissencephaly and Reveal Prolonged Mitosis of Outer Radial Glia. Cell Stem Cell, 2017, 20, 435-449.e4.	11.1	463
15	Single-cell profiling of human gliomas reveals macrophage ontogeny as a basis for regional differences in macrophage activation in the tumor microenvironment. Genome Biology, 2017, 18, 234.	8.8	448
16	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.	7.1	432
17	Establishing Cerebral Organoids as Models of Human-Specific Brain Evolution. Cell, 2019, 176, 743-756.e17.	28.9	423
18	Cell stress in cortical organoids impairs molecular subtype specification. Nature, 2020, 578, 142-148.	27.8	387

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19	Neuronal vulnerability and multilineage diversity in multiple sclerosis. <i>Nature</i> , 2019, 573, 75-82.	27.8	385
20	Human-Specific NOTCH2NL Genes Affect Notch Signaling and Cortical Neurogenesis. <i>Cell</i> , 2018, 173, 1356-1369.e22.	28.9	366
21	Single-cell analysis of long non-coding RNAs in the developing human neocortex. <i>Genome Biology</i> , 2016, 17, 67.	8.8	295
22	The Long Noncoding RNA Pnky Regulates Neuronal Differentiation of Embryonic and Postnatal Neural Stem Cells. <i>Cell Stem Cell</i> , 2015, 16, 439-447.	11.1	294
23	Single-Cell Analyses Identify Brain Mural Cells Expressing CD19 as Potential Off-Tumor Targets for CAR-T Immunotherapies. <i>Cell</i> , 2020, 183, 126-142.e17.	28.9	269
24	Transformation of the Radial Glia Scaffold Demarcates Two Stages of Human Cerebral Cortex Development. <i>Neuron</i> , 2016, 91, 1219-1227.	8.1	264
25	Non-epithelial stem cells and cortical interneuron production in the human ganglionic eminences. <i>Nature Neuroscience</i> , 2013, 16, 1576-1587.	14.8	253
26	Single-cell atlas of early human brain development highlights heterogeneity of human neuroepithelial cells and early radial glia. <i>Nature Neuroscience</i> , 2021, 24, 584-594.	14.8	244
27	The BRAIN Initiative Cell Census Consortium: Lessons Learned toward Generating a Comprehensive Brain Cell Atlas. <i>Neuron</i> , 2017, 96, 542-557.	8.1	235
28	An analytical framework for whole-genome sequence association studies and its implications for autism spectrum disorder. <i>Nature Genetics</i> , 2018, 50, 727-736.	21.4	235
29	New insights into the development of the human cerebral cortex. <i>Journal of Anatomy</i> , 2019, 235, 432-451.	1.5	224
30	The Phenotypes of Proliferating Glioblastoma Cells Reside on a Single Axis of Variation. <i>Cancer Discovery</i> , 2019, 9, 1708-1719.	9.4	205
31	Mitotic spindle orientation predicts outer radial glial cell generation in human neocortex. <i>Nature Communications</i> , 2013, 4, 1665.	12.8	186
32	Interneurons from Embryonic Development to Cell-Based Therapy. <i>Science</i> , 2014, 344, 1240622.	12.6	162
33	Radial glia require PDGFR $\alpha$ signaling in human but not mouse neocortex. <i>Nature</i> , 2014, 515, 264-268.	27.8	145
34	An atlas of cortical arealization identifies dynamic molecular signatures. <i>Nature</i> , 2021, 598, 200-204.	27.8	132
35	Regulation of cell-type-specific transcriptomes by microRNA networks during human brain development. <i>Nature Neuroscience</i> , 2018, 21, 1784-1792.	14.8	121
36	Axonal Control of the Adult Neural Stem Cell Niche. <i>Cell Stem Cell</i> , 2014, 14, 500-511.	11.1	117

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37	A Primate lncRNA Mediates Notch Signaling during Neuronal Development by Sequestering miRNA. <i>Neuron</i> , 2016, 90, 1174-1188.	8.1	115
38	A roadmap for the Human Developmental Cell Atlas. <i>Nature</i> , 2021, 597, 196-205.	27.8	114
39	Cell-type-specific 3D epigenomes in the developing human cortex. <i>Nature</i> , 2020, 587, 644-649.	27.8	110
40	Origins and Proliferative States of Human Oligodendrocyte Precursor Cells. <i>Cell</i> , 2020, 182, 594-608.e11.	28.9	110
41	Transplanted Human Stem Cell-Derived Interneuron Precursors Mitigate Mouse Bladder Dysfunction and Central Neuropathic Pain after Spinal Cord Injury. <i>Cell Stem Cell</i> , 2016, 19, 544-557.	11.1	102
42	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. <i>Nature</i> , 2020, 588, 459-465.	27.8	98
43	Does Adult Neurogenesis Persist in the Human Hippocampus?. <i>Cell Stem Cell</i> , 2018, 23, 780-781.	11.1	95
44	Immature excitatory neurons develop during adolescence in the human amygdala. <i>Nature Communications</i> , 2019, 10, 2748.	12.8	95
45	Single-cell sequencing maps gene expression to mutational phylogenies in PDGF- and EGF-driven gliomas. <i>Molecular Systems Biology</i> , 2016, 12, 889.	7.2	91
46	Wide Dispersion and Diversity of Clonally Related Inhibitory Interneurons. <i>Neuron</i> , 2015, 87, 999-1007.	8.1	84
47	Control of Outer Radial Glial Stem Cell Mitosis in the Human Brain. <i>Cell Reports</i> , 2014, 8, 656-664.	6.4	78
48	Neuronal Migration Dynamics in the Developing Ferret Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 14307-14315.	3.6	77
49	Tropism of SARS-CoV-2 for human cortical astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	77
50	Cell-autonomous correction of ring chromosomes in human induced pluripotent stem cells. <i>Nature</i> , 2014, 507, 99-103.	27.8	75
51	mTOR signaling regulates the morphology and migration of outer radial glia in developing human cortex. <i>ELife</i> , 2020, 9, .	6.0	74
52	A GABAergic projection from the zona incerta to cortex promotes cortical neuron development. <i>Science</i> , 2015, 350, 554-558.	12.6	71
53	Dynamic behaviour of human neuroepithelial cells in the developing forebrain. <i>Nature Communications</i> , 2017, 8, 14167.	12.8	69
54	A Chromatin Accessibility Atlas of the Developing Human Telencephalon. <i>Cell</i> , 2020, 182, 754-769.e18.	28.9	69

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55	Constructing Circuits: Neurogenesis and Migration in the Developing Neocortex. <i>Epilepsia</i> , 2005, 46, 15-21.	5.1	62
56	Shared and derived features of cellular diversity in the human cerebral cortex. <i>Current Opinion in Neurobiology</i> , 2019, 56, 117-124.	4.2	61
57	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. <i>Neuron</i> , 2019, 102, 143-158.e7.	8.1	61
58	Oligodendrocyte Death in Pelizaeus-Merzbacher Disease Is Rescued by Iron Chelation. <i>Cell Stem Cell</i> , 2019, 25, 531-541.e6.	11.1	60
59	Challenges of Organoid Research. <i>Annual Review of Neuroscience</i> , 2022, 45, 23-39.	10.7	59
60	SnapShot: Cortical Development. <i>Cell</i> , 2012, 151, 918-918.e1.	28.9	57
61	oRGs and mitotic somal translocation " a role in development and disease. <i>Current Opinion in Neurobiology</i> , 2017, 42, 61-67.	4.2	46
62	Cortical Neural Stem Cell Lineage Progression Is Regulated by Extrinsic Signaling Molecule Sonic Hedgehog. <i>Cell Reports</i> , 2020, 30, 4490-4504.e4.	6.4	45
63	Human intermediate progenitor diversity during cortical development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
64	Medulloblastoma Arises from the Persistence of a Rare and Transient Sox2+ Granule Neuron Precursor. <i>Cell Reports</i> , 2020, 31, 107511.	6.4	35
65	Secretagoin 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.	2.9	34
66	Neuroserpin expression during human brain development and in adult brain revealed by immunohistochemistry and single cell <sc>RNA</sc> sequencing. <i>Journal of Anatomy</i> , 2019, 235, 543-554.	1.5	28
67	Distinct nuclear compartment-associated genome architecture in the developing mammalian brain. <i>Nature Neuroscience</i> , 2021, 24, 1235-1242.	14.8	28
68	Radial glia in the proliferative ventricular zone of the embryonic and adult turtle, <i>Trachemys scripta elegans</i> . <i>Neurogenesis (Austin, Tex )</i> , 2014, 1, e970905.	1.5	25
69	Are Organoids Ready for Prime Time?. <i>Cell Stem Cell</i> , 2020, 27, 361-365.	11.1	24
70	Identification of Lipid Heterogeneity and Diversity in the Developing Human Brain. <i>Jacs Au</i> , 2021, 1, 2261-2270.	7.9	23
71	Identification of amygdala-expressed genes associated with autism spectrum disorder. <i>Molecular Autism</i> , 2020, 11, 39.	4.9	22
72	Identification of cell types in a mouse brain single-cell atlas using low sampling coverage. <i>BMC Biology</i> , 2018, 16, 113.	3.8	15

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73	Nests of dividing neuroblasts sustain interneuron production for the developing human brain. <i>Science</i> , 2022, 375, eabk2346.	12.6	13
74	Commentary: The Prospect of Cell-Based Therapy for Epilepsy. <i>Neurotherapeutics</i> , 2009, 6, 295-299.	4.4	6
75	Mitochondria Control Cortical Cell Fate after Mitosis. <i>Developmental Cell</i> , 2020, 55, 120-122.	7.0	4
76	SMART-Q: An Integrative Pipeline Quantifying Cell Type-Specific RNA Transcription. <i>PLoS ONE</i> , 2020, 15, e0228760.	2.5	4
77	An ACVR1 activating mutation causes neuropathic pain and sensory neuron hyperexcitability in humans. <i>Pain</i> , 2022, Publish Ahead of Print, .	4.2	3
78	Primate Neurons Flex Their Musclin. <i>Neuron</i> , 2016, 92, 681-683.	8.1	2
79	Neural stem cells among glia. , 2020, , 775-806.		2
80	Diversifying stem cell debates: Including Muslim contexts and perspectives. <i>Stem Cell Reports</i> , 2022, , .	4.8	2
81	Perspective authors' response: Patterns of neural stem and progenitor cell division may underlie evolutionary cortical expansion. <i>Nature Reviews Neuroscience</i> , 2007, 8, 989-989.	10.2	1
82	Neuroglial stem cell-derived inflammatory pseudotumor (n-SCRIPT): clinicopathologic characterization of a novel lesion of the lumbosacral spinal cord and nerve roots following intrathecal allogeneic stem cell intervention. <i>Acta Neuropathologica</i> , 2019, 138, 1103-1106.	7.7	1
83	Cortical Neurogenesis: Transitioning from Advances in the Laboratory to Cell-Based Therapies. <i>Journal of Visualized Experiments</i> , 2007, , 241.	0.3	0
84	Human neurogenesis. , 2020, , 751-767.		0
85	SMART-Q: An Integrative Pipeline Quantifying Cell Type-Specific RNA Transcription. , 2020, 15, e0228760.		0
86	SMART-Q: An Integrative Pipeline Quantifying Cell Type-Specific RNA Transcription. , 2020, 15, e0228760.		0
87	SMART-Q: An Integrative Pipeline Quantifying Cell Type-Specific RNA Transcription. , 2020, 15, e0228760.		0
88	SMART-Q: An Integrative Pipeline Quantifying Cell Type-Specific RNA Transcription. , 2020, 15, e0228760.		0