

# Alex A Pollen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8743145/publications.pdf>

Version: 2024-02-01

37  
papers

7,264  
citations

257450

24  
h-index

330143

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

11731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex. <i>Nature Biotechnology</i> , 2014, 32, 1053-1058.	17.5	850
2	Spatiotemporal gene expression trajectories reveal developmental hierarchies of the human cortex. <i>Science</i> , 2017, 358, 1318-1323.	12.6	717
3	Molecular Identity of Human Outer Radial Glia during Cortical Development. <i>Cell</i> , 2015, 163, 55-67.	28.9	698
4	Expression Analysis Highlights AXL as a Candidate Zika Virus Entry Receptor in Neural Stem Cells. <i>Cell Stem Cell</i> , 2016, 18, 591-596.	11.1	483
5	Human iPSC-Derived Cerebral Organoids Model Cellular Features of Lissencephaly and Reveal Prolonged Mitosis of Outer Radial Glia. <i>Cell Stem Cell</i> , 2017, 20, 435-449.e4.	11.1	463
6	Human-specific loss of regulatory DNA and the evolution of human-specific traits. <i>Nature</i> , 2011, 471, 216-219.	27.8	439
7	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.	7.1	432
8	Establishing Cerebral Organoids as Models of Human-Specific Brain Evolution. <i>Cell</i> , 2019, 176, 743-756.e17.	28.9	423
9	Cell stress in cortical organoids impairs molecular subtype specification. <i>Nature</i> , 2020, 578, 142-148.	27.8	387
10	Human-Specific NOTCH2NL Genes Affect Notch Signaling and Cortical Neurogenesis. <i>Cell</i> , 2018, 173, 1356-1369.e22.	28.9	366
11	High-resolution comparative analysis of great ape genomes. <i>Science</i> , 2018, 360, .	12.6	304
12	Single-cell analysis of long non-coding RNAs in the developing human neocortex. <i>Genome Biology</i> , 2016, 17, 67.	8.8	295
13	Transformation of the Radial Glia Scaffold Demarcates Two Stages of Human Cerebral Cortex Development. <i>Neuron</i> , 2016, 91, 1219-1227.	8.1	264
14	Radial glia require PDGFR $\alpha$ -PDGFR $\beta$ signalling in human but not mouse neocortex. <i>Nature</i> , 2014, 515, 264-268.	27.8	145
15	Regulation of cell-type-specific transcriptomes by microRNA networks during human brain development. <i>Nature Neuroscience</i> , 2018, 21, 1784-1792.	14.8	121
16	Cell-type-specific 3D epigenomes in the developing human cortex. <i>Nature</i> , 2020, 587, 644-649.	27.8	110
17	UCSC Cell Browser: visualize your single-cell data. <i>Bioinformatics</i> , 2021, 37, 4578-4580.	4.1	105
18	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

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19	Human-specific tandem repeat expansion and differential gene expression during primate evolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23243-23253.	7.1	82
20	Tropism of SARS-CoV-2 for human cortical astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	77
21	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. Neuron, 2019, 102, 143-158.e7.	8.1	61
22	The development and evolution of inhibitory neurons in primate cerebrum. Nature, 2022, 603, 871-877.	27.8	58
23	Transcriptional fates of human-specific segmental duplications in brain. Genome Research, 2018, 28, 1566-1576.	5.5	54
24	Recurrent inversion toggling and great ape genome evolution. Nature Genetics, 2020, 52, 849-858.	21.4	40
25	Distinct nuclear compartment-associated genome architecture in the developing mammalian brain. Nature Neuroscience, 2021, 24, 1235-1242.	14.8	28
26	Paired involvement of human-specific Olduvai domains and NOTCH2NL genes in human brain evolution. Human Genetics, 2019, 138, 715-721.	3.8	27
27	Reverse engineering human brain evolution using organoid models. Brain Research, 2020, 1729, 146582.	2.2	25
28	Picroscope: low-cost system for simultaneous longitudinal biological imaging. Communications Biology, 2021, 4, 1261.	4.4	23
29	Identification of cell types in a mouse brain single-cell atlas using low sampling coverage. BMC Biology, 2018, 16, 113.	3.8	15
30	Low cost cloud based remote microscopy for biological sciences. Internet of Things (Netherlands), 2022, 18, 100454.	7.7	12
31	Light-weight electrophysiology hardware and software platform for cloud-based neural recording experiments. Journal of Neural Engineering, 2021, 18, 066004.	3.5	7
32	Postmitotic Fate Refinement in the Subplate. Cell Stem Cell, 2018, 23, 7-9.	11.1	6
33	Rethinking nomenclature for interspecies cell fusions. Nature Reviews Genetics, 2022, , .	16.3	3
34	Primate Neurons Flex Their Musclin. Neuron, 2016, 92, 681-683.	8.1	2
35	Physiological Models of Human Neuronal Development and Disease. Neuron, 2018, 100, 1025-1027.	8.1	2
36	Getting to the heart of cardiovascular evolution in humans. ELife, 2019, 8, .	6.0	2

#	ARTICLE	IF	CITATIONS
37	The genetic symphony underlying evolution of the brain’s prefrontal cortex. Nature, 2021, 598, 417-418.	27.8	1