

Paola Arlotta

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.

54
papers

5,952
citations

28
h-index

77
g-index

85
ext. papers

7,981
ext. citations

18.9
avg, IF

6.03
L-index

#	Paper	IF	Citations
54	Neuronal subtype specification in the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 427-37	13.5	1153
53	Neuronal subtype-specific genes that control corticospinal motor neuron development in vivo. <i>Neuron</i> , 2005 , 45, 207-21	13.9	822
52	Cell diversity and network dynamics in photosensitive human brain organoids. <i>Nature</i> , 2017 , 545, 48-53	50.4	609
51	Fezl is required for the birth and specification of corticospinal motor neurons. <i>Neuron</i> , 2005 , 47, 817-31	13.9	373
50	Individual brain organoids reproducibly form cell diversity of the human cerebral cortex. <i>Nature</i> , 2019 , 570, 523-527	50.4	349
49	Distinct profiles of myelin distribution along single axons of pyramidal neurons in the neocortex. <i>Science</i> , 2014 , 344, 319-24	33.3	334
48	Ctip2 controls the differentiation of medium spiny neurons and the establishment of the cellular architecture of the striatum. <i>Journal of Neuroscience</i> , 2008 , 28, 622-32	6.6	213
47	Generating neuronal diversity in the mammalian cerebral cortex. <i>Annual Review of Cell and Developmental Biology</i> , 2015 , 31, 699-720	12.6	181
46	The promises and challenges of human brain organoids as models of neuropsychiatric disease. <i>Nature Medicine</i> , 2016 , 22, 1220-1228	50.5	170
45	DeCoN: genome-wide analysis of in vivo transcriptional dynamics during pyramidal neuron fate selection in neocortex. <i>Neuron</i> , 2015 , 85, 275-288	13.9	167
44	Excitatory projection neuron subtypes control the distribution of local inhibitory interneurons in the cerebral cortex. <i>Neuron</i> , 2011 , 69, 763-79	13.9	151
43	Novel subtype-specific genes identify distinct subpopulations of callosal projection neurons. <i>Journal of Neuroscience</i> , 2009 , 29, 12343-54	6.6	150
42	Voltage imaging and optogenetics reveal behaviour-dependent changes in hippocampal dynamics. <i>Nature</i> , 2019 , 569, 413-417	50.4	130
41	Highly sensitive spatial transcriptomics at near-cellular resolution with Slide-seqV2. <i>Nature Biotechnology</i> , 2021 , 39, 313-319	44.5	120
40	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. <i>Cell Reports</i> , 2018 , 23, 2509-2523	10.6	90
39	Gene co-regulation by Fezf2 selects neurotransmitter identity and connectivity of corticospinal neurons. <i>Nature Neuroscience</i> , 2014 , 17, 1046-54	25.5	88
38	Present and future of modeling human brain development in 3D organoids. <i>Current Opinion in Cell Biology</i> , 2017 , 49, 47-52	9	64

37	Diversity Matters: A Revised Guide to Myelination. <i>Trends in Cell Biology</i> , 2016 , 26, 135-147	18.3	61
36	Cerebral cortex assembly: generating and reprogramming projection neuron diversity. <i>Trends in Neurosciences</i> , 2015 , 38, 117-25	13.3	59
35	Changes in the Excitability of Neocortical Neurons in a Mouse Model of Amyotrophic Lateral Sclerosis Are Not Specific to Corticospinal Neurons and Are Modulated by Advancing Disease. <i>Journal of Neuroscience</i> , 2017 , 37, 9037-9053	6.6	52
34	Cell diversity in the human cerebral cortex: from the embryo to brain organoids. <i>Current Opinion in Neurobiology</i> , 2019 , 56, 194-198	7.6	46
33	In vivo Perturb-Seq reveals neuronal and glial abnormalities associated with autism risk genes. <i>Science</i> , 2020 , 370,	33.3	45
32	Adult axolotls can regenerate original neuronal diversity in response to brain injury. <i>ELife</i> , 2016 , 5,	8.9	43
31	Individual Oligodendrocytes Show Bias for Inhibitory Axons in the Neocortex. <i>Cell Reports</i> , 2019 , 27, 2799-2808.e3	9.2	43
30	Instructing Perisomatic Inhibition by Direct Lineage Reprogramming of Neocortical Projection Neurons. <i>Neuron</i> , 2015 , 88, 475-83	13.9	40
29	Organoids required! A new path to understanding human brain development and disease. <i>Nature Methods</i> , 2018 , 15, 27-29	21.6	36
28	Molecular logic of cellular diversification in the mouse cerebral cortex. <i>Nature</i> , 2021 , 595, 554-559	50.4	33
27	3D Brain Organoids: Studying Brain Development and Disease Outside the Embryo. <i>Annual Review of Neuroscience</i> , 2020 , 43, 375-389	17	28
26	Induction of Adult Neurogenesis. <i>Annals of the New York Academy of Sciences</i> , 2006 , 991, 229-236	6.5	28
25	Seven actionable strategies for advancing women in science, engineering, and medicine. <i>Cell Stem Cell</i> , 2015 , 16, 221-4	18	26
24	Neuron class-specific responses govern adaptive myelin remodeling in the neocortex. <i>Science</i> , 2020 , 370,	33.3	25
23	Brains in metamorphosis: reprogramming cell identity within the central nervous system. <i>Current Opinion in Neurobiology</i> , 2014 , 27, 208-14	7.6	23
22	Homeotic Transformations of Neuronal Cell Identities. <i>Trends in Neurosciences</i> , 2015 , 38, 751-762	13.3	21
21	Molecular manipulation of neural precursors in situ: induction of adult cortical neurogenesis. <i>Experimental Gerontology</i> , 2003 , 38, 173-82	4.5	20
20	Long-Range Optogenetic Control of Axon Guidance Overcomes Developmental Boundaries and Defects. <i>Developmental Cell</i> , 2020 , 53, 577-588.e7	10.2	18

19	Untangling the cortex: Advances in understanding specification and differentiation of corticospinal motor neurons. <i>BioEssays</i> , 2010 , 32, 197-206	4.1	18
18	Sensitive spatial genome wide expression profiling at cellular resolution		18
17	Multiscale 3D phenotyping of human cerebral organoids. <i>Scientific Reports</i> , 2020 , 10, 21487	4.9	15
16	Genetic dissection of the glutamatergic neuron system in cerebral cortex. <i>Nature</i> , 2021 , 598, 182-187	50.4	11
15	Molecular Development of Corticospinal Motor Neuron Circuitry. <i>Novartis Foundation Symposium</i> , 2008 , 3-20		10
14	Autism genes converge on asynchronous development of shared neuron classes.. <i>Nature</i> , 2022 ,	50.4	10
13	Genetic dissection of glutamatergic neuron subpopulations and developmental trajectories in the cerebral cortex		9
12	FIN-Seq: transcriptional profiling of specific cell types from frozen archived tissue of the human central nervous system. <i>Nucleic Acids Research</i> , 2020 , 48, e4	20.1	9
11	Molecular Logic of Cellular Diversification in the Mammalian Cerebral Cortex		8
10	Seq-ing the cortex one neuron at a time. <i>Nature Neuroscience</i> , 2016 , 19, 179-81	25.5	5
9	Archeo-cell biology: carbon dating is not just for pots and dinosaurs. <i>Cell</i> , 2005 , 122, 4-6	56.2	5
8	Murine NFX.1: isolation and characterization of its messenger RNA, mapping of its chromosomal location and assessment of its developmental expression. <i>Immunology</i> , 2002 , 106, 173-81	7.8	5
7	Induction of adult neurogenesis: molecular manipulation of neural precursors in situ. <i>Annals of the New York Academy of Sciences</i> , 2003 , 991, 229-36	6.5	5
6	Long-term culture and electrophysiological characterization of human brain organoids. <i>Protocol Exchange</i> ,		4
5	Building blocks of the cerebral cortex: from development to the dish. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015 , 4, 529-44	5.9	3
4	Highly reproducible human brain organoids recapitulate cerebral cortex cellular diversity.		2
3	Stressed out? Healing Tips for Newly Reprogrammed Neurons. <i>Cell Stem Cell</i> , 2016 , 18, 297-9	18	2
2	Optogenetic axon guidance in embryonic zebrafish. <i>STAR Protocols</i> , 2021 , 2, 100947	1.4	1

- 1 The repair of complex neuronal circuitry by transplanted and endogenous precursors.
Neurotherapeutics, **2004**, 1, 452-471

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