

Paola Arlotta

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

9,350
citations

126907

33
h-index

182427

51
g-index

85
all docs

85
docs citations

85
times ranked

11451
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal subtype specification in the cerebral cortex. Nature Reviews Neuroscience, 2007, 8, 427-437.	10.2	1,444
2	Neuronal Subtype-Specific Genes that Control Corticospinal Motor Neuron Development In Vivo. Neuron, 2005, 45, 207-221.	8.1	1,046
3	Cell diversity and network dynamics in photosensitive human brain organoids. Nature, 2017, 545, 48-53.	27.8	933
4	Individual brain organoids reproducibly form cell diversity of the human cerebral cortex. Nature, 2019, 570, 523-527.	27.8	649
5	Highly sensitive spatial transcriptomics at near-cellular resolution with Slide-seqV2. Nature Biotechnology, 2021, 39, 313-319.	17.5	569
6	Distinct Profiles of Myelin Distribution Along Single Axons of Pyramidal Neurons in the Neocortex. Science, 2014, 344, 319-324.	12.6	454
7	Fezl Is Required for the Birth and Specification of Corticospinal Motor Neurons. Neuron, 2005, 47, 817-831.	8.1	448
8	Generating Neuronal Diversity in the Mammalian Cerebral Cortex. Annual Review of Cell and Developmental Biology, 2015, 31, 699-720.	9.4	285
9	Ctip2 Controls the Differentiation of Medium Spiny Neurons and the Establishment of the Cellular Architecture of the Striatum. Journal of Neuroscience, 2008, 28, 622-632.	3.6	280
10	Voltage imaging and optogenetics reveal behaviour-dependent changes in hippocampal dynamics. Nature, 2019, 569, 413-417.	27.8	255
11	DeCoN: Genome-wide Analysis of In Vivo Transcriptional Dynamics during Pyramidal Neuron Fate Selection in Neocortex. Neuron, 2015, 85, 275-288.	8.1	248
12	The promises and challenges of human brain organoids as models of neuropsychiatric disease. Nature Medicine, 2016, 22, 1220-1228.	30.7	224
13	Molecular logic of cellular diversification in the mouse cerebral cortex. Nature, 2021, 595, 554-559.	27.8	212
14	Excitatory Projection Neuron Subtypes Control the Distribution of Local Inhibitory Interneurons in the Cerebral Cortex. Neuron, 2011, 69, 763-779.	8.1	192
15	Novel Subtype-Specific Genes Identify Distinct Subpopulations of Callosal Projection Neurons. Journal of Neuroscience, 2009, 29, 12343-12354.	3.6	187
16	Autism genes converge on asynchronous development of shared neuron classes. Nature, 2022, 602, 268-273.	27.8	180
17	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. Cell Reports, 2018, 23, 2509-2523.	6.4	168
18	In vivo Perturb-Seq reveals neuronal and glial abnormalities associated with autism risk genes. Science, 2020, 370, .	12.6	155

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19	Gene co-regulation by Fezf2 selects neurotransmitter identity and connectivity of corticospinal neurons. <i>Nature Neuroscience</i> , 2014, 17, 1046-1054.	14.8	121
20	Present and future of modeling human brain development in 3D organoids. <i>Current Opinion in Cell Biology</i> , 2017, 49, 47-52.	5.4	88
21	Individual Oligodendrocytes Show Bias for Inhibitory Axons in the Neocortex. <i>Cell Reports</i> , 2019, 27, 2799-2808.e3.	6.4	83
22	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.	3.6	81
23	Diversity Matters: A Revised Guide to Myelination. <i>Trends in Cell Biology</i> , 2016, 26, 135-147.	7.9	80
24	Neuron class-specific responses govern adaptive myelin remodeling in the neocortex. <i>Science</i> , 2020, 370, .	12.6	79
25	Cerebral cortex assembly: generating and reprogramming projection neuron diversity. <i>Trends in Neurosciences</i> , 2015, 38, 117-125.	8.6	75
26	Genetic dissection of the glutamatergic neuron system in cerebral cortex. <i>Nature</i> , 2021, 598, 182-187.	27.8	75
27	Cell diversity in the human cerebral cortex: from the embryo to brain organoids. <i>Current Opinion in Neurobiology</i> , 2019, 56, 194-198.	4.2	73
28	Adult axolotls can regenerate original neuronal diversity in response to brain injury. <i>ELife</i> , 2016, 5, .	6.0	68
29	3D Brain Organoids: Studying Brain Development and Disease Outside the Embryo. <i>Annual Review of Neuroscience</i> , 2020, 43, 375-389.	10.7	59
30	Instructing Perisomatic Inhibition by Direct Lineage Reprogramming of Neocortical Projection Neurons. <i>Neuron</i> , 2015, 88, 475-483.	8.1	53
31	Organoids required! A new path to understanding human brain development and disease. <i>Nature Methods</i> , 2018, 15, 27-29.	19.0	50
32	Multiscale 3D phenotyping of human cerebral organoids. <i>Scientific Reports</i> , 2020, 10, 21487.	3.3	46
33	Homeotic Transformations of Neuronal Cell Identities. <i>Trends in Neurosciences</i> , 2015, 38, 751-762.	8.6	40
34	Seven Actionable Strategies for Advancing Women in Science, Engineering, and Medicine. <i>Cell Stem Cell</i> , 2015, 16, 221-224.	11.1	36
35	Induction of Adult Neurogenesis. <i>Annals of the New York Academy of Sciences</i> , 2003, 991, 229-236.	3.8	30
36	Brains in metamorphosis: reprogramming cell identity within the central nervous system. <i>Current Opinion in Neurobiology</i> , 2014, 27, 208-214.	4.2	28

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37	Long-Range Optogenetic Control of Axon Guidance Overcomes Developmental Boundaries and Defects. <i>Developmental Cell</i> , 2020, 53, 577-588.e7.	7.0	27
38	Untangling the cortex: Advances in understanding specification and differentiation of corticospinal motor neurons. <i>BioEssays</i> , 2010, 32, 197-206.	2.5	23
39	Molecular manipulation of neural precursors in situ: induction of adult cortical neurogenesis. <i>Experimental Gerontology</i> , 2003, 38, 173-182.	2.8	20
40	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.	14.5	13
41	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.	3.8	12
42	Brain organoids: the quest to decipher human-specific features of brain development. <i>Current Opinion in Genetics and Development</i> , 2022, 75, 101955.	3.3	10
43	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, 173-181.	4.4	6
44	Long-term culture and electrophysiological characterization of human brain organoids. <i>Protocol Exchange</i> , 0, , .	0.3	6
45	Archeo-Cell Biology: Carbon Dating Is Not Just for Pots and Dinosaurs. <i>Cell</i> , 2005, 122, 4-6.	28.9	5
46	Stressed out? Healing Tips for Newly Reprogrammed Neurons. <i>Cell Stem Cell</i> , 2016, 18, 297-299.	11.1	5
47	Seq-ing the cortex one neuron at a time. <i>Nature Neuroscience</i> , 2016, 19, 179-181.	14.8	5
48	Building blocks of the cerebral cortex: from development to the dish. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015, 4, 529-544.	5.9	4
49	Optogenetic axon guidance in embryonic zebrafish. <i>STAR Protocols</i> , 2021, 2, 100947.	1.2	2
50	The repair of complex neuronal circuitry by transplanted and endogenous precursors. <i>Neurotherapeutics</i> , 2004, 1, 452-471.	4.4	1
51	Editorial overview: Developmental neuroscience 2017. <i>Current Opinion in Neurobiology</i> , 2017, 42, A1-A4.	4.2	0