

Amy Bernard

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.

71
papers

15,599
citations

40
h-index

78
g-index

78
ext. papers

21,206
ext. citations

20.7
avg, IF

5.18
L-index

#	Paper	IF	Citations
71	Genome-wide atlas of gene expression in the adult mouse brain. <i>Nature</i> , 2007 , 445, 168-76	50.4	3675
70	An anatomically comprehensive atlas of the adult human brain transcriptome. <i>Nature</i> , 2012 , 489, 391-399	50.4	1525
69	A mesoscale connectome of the mouse brain. <i>Nature</i> , 2014 , 508, 207-14	50.4	1380
68	Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. <i>Nature Neuroscience</i> , 2016 , 19, 335-46	25.5	1007
67	Transcriptional landscape of the prenatal human brain. <i>Nature</i> , 2014 , 508, 199-206	50.4	797
66	Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018 , 563, 72-78	50.4	674
65	Highly multiplexed subcellular RNA sequencing in situ. <i>Science</i> , 2014 , 343, 1360-3	33.3	631
64	Conserved cell types with divergent features in human versus mouse cortex. <i>Nature</i> , 2019 , 573, 61-68	50.4	569
63	Canonical genetic signatures of the adult human brain. <i>Nature Neuroscience</i> , 2015 , 18, 1832-44	25.5	301
62	Convergent transcriptional specializations in the brains of humans and song-learning birds. <i>Science</i> , 2014 , 346, 1256846	33.3	283
61	Genomic anatomy of the hippocampus. <i>Neuron</i> , 2008 , 60, 1010-21	13.9	278
60	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. <i>Science</i> , 2018 , 362,	33.3	277
59	Anatomical characterization of Cre driver mice for neural circuit mapping and manipulation. <i>Frontiers in Neural Circuits</i> , 2014 , 8, 76	3.5	254
58	Large-scale cellular-resolution gene profiling in human neocortex reveals species-specific molecular signatures. <i>Cell</i> , 2012 , 149, 483-96	56.2	241
57	A comprehensive transcriptional map of primate brain development. <i>Nature</i> , 2016 , 535, 367-75	50.4	217
56	An anatomic gene expression atlas of the adult mouse brain. <i>Nature Neuroscience</i> , 2009 , 12, 356-62	25.5	207
55	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. <i>PLoS ONE</i> , 2018 , 13, e0209648	3.7	199

54	The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas. <i>Cell</i> , 2020 , 181, 936-953. 570	37.2	191
53	An anatomic transcriptional atlas of human glioblastoma. <i>Science</i> , 2018 , 360, 660-663	33.3	189
52	The Wilms tumour gene WT1 is expressed in murine mesoderm-derived tissues and mutated in a human mesothelioma. <i>Nature Genetics</i> , 1993 , 4, 415-20	36.3	185
51	Comprehensive cellular-resolution atlas of the adult human brain. <i>Journal of Comparative Neurology</i> , 2016 , 524, 3127-481	3.4	174
50	Transcriptional architecture of the primate neocortex. <i>Neuron</i> , 2012 , 73, 1083-99	13.9	170
49	Classification of electrophysiological and morphological neuron types in the mouse visual cortex. <i>Nature Neuroscience</i> , 2019 , 22, 1182-1195	25.5	160
48	A high-resolution spatiotemporal atlas of gene expression of the developing mouse brain. <i>Neuron</i> , 2014 , 83, 309-323	13.9	159
47	Hierarchical organization of cortical and thalamic connectivity. <i>Nature</i> , 2019 , 575, 195-202	50.4	155
46	Control of stress-induced persistent anxiety by an extra-amygdala septohypothalamic circuit. <i>Cell</i> , 2014 , 156, 522-36	56.2	147
45	Inactivation of WT1 in nephrogenic rests, genetic precursors to Wilmsctumour. <i>Nature Genetics</i> , 1993 , 5, 363-7	36.3	132
44	Neuroinformatics of the Allen Mouse Brain Connectivity Atlas. <i>Methods</i> , 2015 , 73, 4-17	4.6	119
43	Diverse Central Projection Patterns of Retinal Ganglion Cells. <i>Cell Reports</i> , 2017 , 18, 2058-2072	10.6	111
42	A large-scale standardized physiological survey reveals functional organization of the mouse visual cortex. <i>Nature Neuroscience</i> , 2020 , 23, 138-151	25.5	94
41	Organization of the connections between claustrum and cortex in the mouse. <i>Journal of Comparative Neurology</i> , 2017 , 525, 1317-1346	3.4	91
40	Correlated gene expression and target specificity demonstrate excitatory projection neuron diversity. <i>Cerebral Cortex</i> , 2015 , 25, 433-49	5.1	90
39	Notch regulation of progenitor cell behavior in quiescent and regenerating auditory epithelium of mature birds. <i>Developmental Biology</i> , 2009 , 326, 86-100	3.1	78
38	Selective isolation of transiently transfected cells from a mammalian cell population with vectors expressing a membrane anchored single-chain antibody. <i>Journal of Immunological Methods</i> , 1996 , 193, 17-27	2.5	77
37	Cell-type-specific consequences of Reelin deficiency in the mouse neocortex, hippocampus, and amygdala. <i>Journal of Comparative Neurology</i> , 2011 , 519, 2061-89	3.4	65

36	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021 , 592, 86-92	50.4	58
35	Inferring cortical function in the mouse visual system through large-scale systems neuroscience. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7337-44	11.5	55
34	Conserved molecular signatures of neurogenesis in the hippocampal subgranular zone of rodents and primates. <i>Development (Cambridge)</i> , 2013 , 140, 4633-44	6.6	53
33	Neuropathological and transcriptomic characteristics of the aged brain. <i>ELife</i> , 2017 , 6,	8.9	50
32	Visual tuning properties of genetically identified layer 2/3 neuronal types in the primary visual cortex of cre-transgenic mice. <i>Frontiers in Systems Neuroscience</i> , 2011 , 4, 162	3.5	48
31	Areal and laminar differentiation in the mouse neocortex using large scale gene expression data. <i>Methods</i> , 2010 , 50, 113-21	4.6	34
30	Systematic comparison of adeno-associated virus and biotinylated dextran amine reveals equivalent sensitivity between tracers and novel projection targets in the mouse brain. <i>Journal of Comparative Neurology</i> , 2014 , 522, 1989-2012	3.4	32
29	A survey of spiking activity reveals a functional hierarchy of mouse corticothalamic visual areas		32
28	Transcriptomic evidence that von Economo neurons are regionally specialized extratelencephalic-projecting excitatory neurons. <i>Nature Communications</i> , 2020 , 11, 1172	17.4	31
27	Spatiotemporal dynamics of the postnatal developing primate brain transcriptome. <i>Human Molecular Genetics</i> , 2015 , 24, 4327-39	5.6	28
26	Shifting the paradigm: new approaches for characterizing and classifying neurons. <i>Current Opinion in Neurobiology</i> , 2009 , 19, 530-6	7.6	26
25	International Brain Initiative: An Innovative Framework for Coordinated Global Brain Research Efforts. <i>Neuron</i> , 2020 , 105, 212-216	13.9	23
24	The organization of intracortical connections by layer and cell class in the mouse brain		23
23	Human neocortical expansion involves glutamatergic neuron diversification. <i>Nature</i> , 2021 , 598, 151-158	50.4	21
22	Human cortical expansion involves diversification and specialization of supragranular intratelencephalic-projecting neurons		19
21	Surface-based mapping of gene expression and probabilistic expression maps in the mouse cortex. <i>Methods</i> , 2010 , 50, 55-62	4.6	16
20	Phosphospecific antibodies reveal temporal regulation of platelet-derived growth factor beta receptor signaling. <i>Experimental Cell Research</i> , 1999 , 253, 704-12	4.2	15
19	Common cell type nomenclature for the mammalian brain. <i>ELife</i> , 2020 , 9,	8.9	15

18	Conserved cell types with divergent features between human and mouse cortex		14
17	Effects of Chronic Sleep Restriction during Early Adolescence on the Adult Pattern of Connectivity of Mouse Secondary Motor Cortex. <i>ENeuro</i> , 2016 , 3,	3.9	14
16	Shared and distinct transcriptomic cell types across neocortical areas		13
15	Darkfield adapter for whole slide imaging: adapting a darkfield internal reflection illumination system to extend WSI applications. <i>PLoS ONE</i> , 2013 , 8, e58344	3.7	10
14	Classification of electrophysiological and morphological types in mouse visual cortex		7
13	Local connectivity and synaptic dynamics in mouse and human neocortex.. <i>Science</i> , 2022 , 375, eabj5861	33.3	7
12	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. <i>Nature Cell Biology</i> , 2021 , 23, 1117-1128	23.4	6
11	Single-cell and single-nucleus RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates, and humans. <i>ELife</i> , 2021 , 10,	8.9	6
10	Equivalent high-resolution identification of neuronal cell types with single-nucleus and single-cell RNA-sequencing		
9	Comprehensive cellular-resolution atlas of the adult human brain. <i>Journal of Comparative Neurology</i> , 2016 , 524, Spc1-Spc1	3.4	4
8	International data governance for neuroscience.. <i>Neuron</i> , 2021 ,	13.9	4
7	Author response: Neuropathological and transcriptomic characteristics of the aged brain 2017 ,		3
6	Local Connectivity and Synaptic Dynamics in Mouse and Human Neocortex		3
5	Single-cell RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates and humans		2
4	Anatomical Structures, Cell Types, and Biomarkers Tables Plus 3D Reference Organs in Support of a Human Reference Atlas		2
3	Cellular resolution anatomical and molecular atlases for prenatal human brains. <i>Journal of Comparative Neurology</i> , 2021 ,	3.4	1
2	Organization of the connections between claustrum and cortex in the mouse. <i>Journal of Comparative Neurology</i> , 2017 , 525, spc1-spc1	3.4	0
1	The requirement of tyrosines 579 and 581 for maximal ligand-dependent activation of the betaPDGFR is influenced by noncytoplasmic regions of the receptor. <i>Experimental Cell Research</i> , 2001 , 265, 80-9	4.2	

