Amy Bernard

List of Publications by Year
in descending order

60 papers	24,772 citations	53789 45 h-index	128286 60 g-index
78 all docs	78 docs citations	78 times ranked	32345 citing authors

#	Article	IF	Citations
1	Genome-wide atlas of gene expression in the adult mouse brain. Nature, 2007, 445, 168-176.	27.8	4,863
2	An anatomically comprehensive atlas of the adult human brain transcriptome. Nature, 2012, 489, 391-399.	27.8	2,321
3	A mesoscale connectome of the mouse brain. Nature, 2014, 508, 207-214.	27.8	2,143
4	Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. Nature Neuroscience, 2016, 19, 335-346.	14.8	1,522
5	Shared and distinct transcriptomic cell types across neocortical areas. Nature, 2018, 563, 72-78.	27.8	1,323
6	Conserved cell types with divergent features in human versus mouse cortex. Nature, 2019, 573, 61-68.	27.8	1,198
7	Transcriptional landscape of the prenatal human brain. Nature, 2014, 508, 199-206.	27.8	1,147
8	Highly Multiplexed Subcellular RNA Sequencing in Situ. Science, 2014, 343, 1360-1363.	12.6	824
9	The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas. Cell, 2020, 181, 936-953.e20.	28.9	597
10	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. Science, 2018, 362, .	12.6	516
11	Canonical genetic signatures of the adult human brain. Nature Neuroscience, 2015, 18, 1832-1844.	14.8	503
12	Hierarchical organization of cortical and thalamic connectivity. Nature, 2019, 575, 195-202.	27.8	421
13	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. PLoS ONE, 2018, 13, e0209648.	2.5	400
14	An anatomic transcriptional atlas of human glioblastoma. Science, 2018, 360, 660-663.	12.6	384
15	Anatomical characterization of Cre driver mice for neural circuit mapping and manipulation. Frontiers in Neural Circuits, 2014, 8, 76.	2.8	383
16	Convergent transcriptional specializations in the brains of humans and song-learning birds. Science, 2014, 346, 1256846.	12.6	379
17	Large-Scale Cellular-Resolution Gene Profiling in Human Neocortex Reveals Species-Specific Molecular Signatures. Cell, 2012, 149, 483-496.	28.9	342
18	A comprehensive transcriptional map of primate brain development. Nature, 2016, 535, 367-375.	27.8	341

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19	Genomic Anatomy of the Hippocampus. Neuron, 2008, 60, 1010-1021.	8.1	337
20	Classification of electrophysiological and morphological neuron types in the mouse visual cortex. Nature Neuroscience, 2019, 22, 1182-1195.	14.8	333
21	Comprehensive cellularâ€resolution atlas of the adult human brain. Journal of Comparative Neurology, 2016, 524, 3127-3481.	1.6	302
22	Survey of spiking in the mouse visual system reveals functional hierarchy. Nature, 2021, 592, 86-92.	27.8	284
23	An anatomic gene expression atlas of the adult mouse brain. Nature Neuroscience, 2009, 12, 356-362.	14.8	264
24	A High-Resolution Spatiotemporal Atlas of Gene Expression of the Developing Mouse Brain. Neuron, 2014, 83, 309-323.	8.1	246
25	Transcriptional Architecture of the Primate Neocortex. Neuron, 2012, 73, 1083-1099.	8.1	234
26	A large-scale standardized physiological survey reveals functional organization of the mouse visual cortex. Nature Neuroscience, 2020, 23, 138-151.	14.8	232
27	Control of Stress-Induced Persistent Anxiety by an Extra-Amygdala Septohypothalamic Circuit. Cell, 2014, 156, 522-536.	28.9	217
28	Diverse Central Projection Patterns of Retinal Ganglion Cells. Cell Reports, 2017, 18, 2058-2072.	6.4	215
29	The Wilms tumour gene WT1 is expressed in murine mesodermâ€“derived tissues and mutated in a human mesothelioma. Nature Genetics, 1993, 4, 415-420.	21.4	199
30	Neuroinformatics of the Allen Mouse Brain Connectivity Atlas. Methods, 2015, 73, 4-17.	3.8	176
31	Organization of the connections between claustrum and cortex in the mouse. Journal of Comparative Neurology, 2017, 525, 1317-1346.	1.6	162
32	Human neocortical expansion involves glutamatergic neuron diversification. Nature, 2021, 598, 151-158.	27.8	160
33	Inactivation of WT1 in nephrogenic rests, genetic precursors to Wilms' tumour. Nature Genetics, 1993, 5, 363-367.	21.4	148
34	Correlated Gene Expression and Target Specificity Demonstrate Excitatory Projection Neuron Diversity. Cerebral Cortex, 2015, 25, 433-449.	2.9	125
35	Local connectivity and synaptic dynamics in mouse and human neocortex. Science, 2022, 375, eabj5861.	12.6	124
36	Neuropathological and transcriptomic characteristics of the aged brain. ELife, 2017, 6, .	6.0	97

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37	Notch regulation of progenitor cell behavior in quiescent and regenerating auditory epithelium of mature birds. Developmental Biology, 2009, 326, 86-100.	2.0	90
38	Selective isolation of transiently transfected cells from a mammalian cell population with vectors expressing a membrane anchored single-chain antibody. Journal of Immunological Methods, 1996, 193, 17-27.	1.4	89
39	Conserved molecular signatures of neurogenesis in the hippocampal subgranular zone of rodents and primates. Development (Cambridge), 2013, 140, 4633-4644.	2.5	87
40	Cellâ€typeâ€specific consequences of reelin deficiency in the mouse neocortex, hippocampus, and amygdala. Journal of Comparative Neurology, 2011, 519, 2061-2089.	1.6	82
41	Inferring cortical function in the mouse visual system through large-scale systems neuroscience. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7337-7344.	7.1	82
42	Transcriptomic evidence that von Economo neurons are regionally specialized extratelencephalic-projecting excitatory neurons. Nature Communications, 2020, 11, 1172.	12.8	70
43	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. Nature Cell Biology, 2021, 23, 1117-1128.	10.3	68
44	Common cell type nomenclature for the mammalian brain. ELife, 2020, 9, .	6.0	56
45	Visual Tuning Properties of Genetically Identified Layer 2/3 Neuronal Types in the Primary Visual Cortex of Cre-Transgenic Mice. Frontiers in Systems Neuroscience, 2011, 4, 162.	2.5	55
46	Spatiotemporal dynamics of the postnatal developing primate brain transcriptome. Human Molecular Genetics, 2015, 24, 4327-4339.	2.9	53
47	Systematic comparison of adenoâ€associated virus and biotinylated dextran amine reveals equivalent sensitivity between tracers and novel projection targets in the mouse brain. Journal of Comparative Neurology, 2014, 522, 1989-2012.	1.6	52
48	International Brain Initiative: An Innovative Framework for Coordinated Global Brain Research Efforts. Neuron, 2020, 105, 212-216.	8.1	50
49	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. ELife, 2021, 10, .	6.0	41
50	Areal and laminar differentiation in the mouse neocortex using large scale gene expression data. Methods, 2010, 50, 113-121.	3.8	38
51	Shifting the paradigm: new approaches for characterizing and classifying neurons. Current Opinion in Neurobiology, 2009, 19, 530-536.	4.2	28
52	International data governance for neuroscience. Neuron, 2022, 110, 600-612.	8.1	28
53	Surface-based mapping of gene expression and probabilistic expression maps in the mouse cortex. Methods, 2010, 50, 55-62.	3.8	23
54	Effects of Chronic Sleep Restriction during Early Adolescence on the Adult Pattern of Connectivity of Mouse Secondary Motor Cortex. ENeuro, 2016, 3, ENEURO.0053-16.2016.	1.9	20

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55	Phosphospecific Antibodies Reveal Temporal Regulation of Platelet-Derived Growth Factor Î² Receptor Signaling. Experimental Cell Research, 1999, 253, 704-712.	2.6	16
56	Cellular resolution anatomical and molecular atlases for prenatal human brains. Journal of Comparative Neurology, 2022, 530, 6-503.	1.6	14
57	Darkfield Adapter for Whole Slide Imaging: Adapting a Darkfield Internal Reflection Illumination System to Extend WSI Applications. PLoS ONE, 2013, 8, e58344.	2.5	10
58	Comprehensive cellularâ€resolution atlas of the adult human brain. Journal of Comparative Neurology, 2016, 524, Spc1.	1.6	8
59	Organization of the connections between claustrum and cortex in the mouse. Journal of Comparative Neurology, 2017, 525, spc1-spc1.	1.6	1
60	The Requirement of Tyrosines 579 and 581 for Maximal Ligand-Dependent Activation of the Î²PDGFR Is Influenced by Noncytoplasmic Regions of the Receptor. Experimental Cell Research, 2001, 265, 80-89.	2.6	0