Michael E Greenberg

List of Publications by Year
in descending order

77 papers	21,379 citations	42 h-index	70 g-index
89 all docs	89 docs citations	89 times ranked	24727 citing authors

#	Article	IF	Citations
1	Stimulation of 3T3 cells induces transcription of the c-fos proto-oncogene. Nature, 1984, 311, 433-438.	13.7	3,227
2	Microglia Sculpt Postnatal Neural Circuits in an Activity and Complement-Dependent Manner. Neuron, 2012, 74, 691-705.	3.8	3,040
3	Widespread transcription at neuronal activity-regulated enhancers. Nature, 2010, 465, 182-187.	13.7	2,120
4	CREB: A Stimulus-Induced Transcription Factor Activated by A Diverse Array of Extracellular Signals. Annual Review of Biochemistry, 1999, 68, 821-861.	5.0	1,940
5	Derepression of BDNF Transcription Involves Calcium-Dependent Phosphorylation of MeCP2. Science, 2003, 302, 885-889.	6.0	1,138
6	Activity-dependent neuronal signalling and autism spectrum disorder. Nature, 2013, 493, 327-337.	13.7	549
7	The E2F1â€“3 transcription factors are essential for cellular proliferation. Nature, 2001, 414, 457-462.	13.7	545
8	Disruption of DNA-methylation-dependent long gene repression in Rett syndrome. Nature, 2015, 522, 89-93.	13.7	521
9	Activity-dependent regulation of inhibitory synapse development by Npas4. Nature, 2008, 455, 1198-1204.	13.7	518
10	New Insights in the Biology of BDNF Synthesis and Release: Implications in CNS Function. Journal of Neuroscience, 2009, 29, 12764-12767.	1.7	511
11	Neuronal Activity-Dependent Cell Survival Mediated by Transcription Factor MEF2. Science, 1999, 286, 785-790.	6.0	485
12	Neuronal Activity-Regulated Gene Transcription in Synapse Development and Cognitive Function. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005744-a005744.	2.3	426
13	Activity-Regulated Transcription: Bridging the Gap between Neural Activity and Behavior. Neuron, 2018, 100, 330-348.	3.8	408
14	Single-cell analysis of experience-dependent transcriptomic states in the mouse visual cortex. Nature Neuroscience, 2018, 21, 120-129.	7.1	394
15	AP-1 Transcription Factors and the BAF Complex Mediate Signal-Dependent Enhancer Selection. Molecular Cell, 2017, 68, 1067-1082.e12.	4.5	328
16	Rett syndrome mutations abolish the interaction of MeCP2 with the NCoR/SMRT co-repressor. Nature Neuroscience, 2013, 16, 898-902.	7.1	317
17	Npas4 Regulates Excitatory-Inhibitory Balance within Neural Circuits through Cell-Type-Specific Gene Programs. Cell, 2014, 157, 1216-1229.	13.5	315
18	Calcium regulation of gene expression in neuronal cells. Journal of Neurobiology, 1994, 25, 294-303.	3.7	307

#	Article	IF	Citations
19	CREB Transcriptional Activity in Neurons Is Regulated by Multiple, Calcium-Specific Phosphorylation Events. Neuron, 2002, 34, 221-233.	3.8	261
20	The activity-dependent transcription factor NPAS4 regulates domain-specific inhibition. Nature, 2013, 503, 121-125.	13.7	246
21	Genome-wide identification and characterization of functional neuronal activityâ€“dependent enhancers. Nature Neuroscience, 2014, 17, 1330-1339.	7.1	244
22	Sleep Loss Can Cause Death through Accumulation of Reactive Oxygen Species in the Gut. Cell, 2020, 181, 1307-1328.e15.	13.5	243
23	Sensory lesioning induces microglial synapse elimination via ADAM10 and fractalkine signaling. Nature Neuroscience, 2019, 22, 1075-1088.	7.1	207
24	Activity-dependent phosphorylation of MeCP2 threonine 308 regulates interaction with NCoR. Nature, 2013, 499, 341-345.	13.7	206
25	Reading the unique DNA methylation landscape of the brain: Non-CpG methylation, hydroxymethylation, and MeCP2. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6800-6806.	3.3	205
26	Regulation of Cyclic AMP Response Element-Binding Protein (CREB) Phosphorylation by Acute and Chronic Morphine in the Rat Locus Coeruleus. Journal of Neurochemistry, 1992, 58, 1168-1171.	2.1	186
27	Ca2+ channel-regulated neuronal gene expression. Journal of Neurobiology, 1998, 37, 171-189.	3.7	183
28	Loss of Adaptive Myelination Contributes to Methotrexate Chemotherapy-Related Cognitive Impairment. Neuron, 2019, 103, 250-265.e8.	3.8	177
29	Early-Life Gene Expression in Neurons Modulates Lasting Epigenetic States. Cell, 2017, 171, 1151-1164.e16.	13.5	167
30	Neurons that regulate mouse torpor. Nature, 2020, 583, 115-121.	13.7	142
31	Evolution of Osteocrin as an activity-regulated factor in the primate brain. Nature, 2016, 539, 242-247.	13.7	120
32	Sensory Experience Engages Microglia to Shape Neural Connectivity through a Non-Phagocytic Mechanism. Neuron, 2020, 108, 451-468.e9.	3.8	106
33	DNA methylation in the gene body influences MeCP2-mediated gene repression. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 15114-15119.	3.3	100
34	Characterization of human mosaic Rett syndrome brain tissue by single-nucleus RNA sequencing. Nature Neuroscience, 2018, 21, 1670-1679.	7.1	92
35	Rewiring of human neurodevelopmental gene regulatory programs by human accelerated regions. Neuron, 2021, 109, 3239-3251.e7.	3.8	91
36	Maternal immune activation in mice disrupts proteostasis in the fetal brain. Nature Neuroscience, 2021, 24, 204-213.	7.1	76

#	ARTICLE	IF	CITATIONS
37	MEF2D Drives Photoreceptor Development through a Genome-wide Competition for Tissue-Specific Enhancers. Neuron, 2015, 86, 247-263.	3.8	72
38	MeCP2 Represses the Rate of Transcriptional Initiation of Highly Methylated Long Genes. Molecular Cell, 2020, 77, 294-309.e9.	4.5	72
39	Mapping the <i>cis</i> -regulatory architecture of the human retina reveals noncoding genetic variation in disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9001-9012.	3.3	72
40	Bidirectional perisomatic inhibitory plasticity of a Fos neuronal network. Nature, 2021, 590, 115-121.	13.7	70
41	A scalable platform for the development of cell-type-specific viral drivers. ELife, 2019, 8, .	2.8	67
42	Single-cell transcriptomics of the developing lateral geniculate nucleus reveals insights into circuit assembly and refinement. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1051-E1060.	3.3	66
43	Identification of Newly Transcribed RNA. Current Protocols in Molecular Biology, 2007, 78, Unit 4.10.	2.9	50
44	Mapping the genomic landscape of inherited retinal disease genes prioritizes genes prone to coding and noncoding copy-number variations. Genetics in Medicine, 2018, 20, 202-213.	1.1	47
45	Single-nucleus RNA sequencing of mouse auditory cortex reveals critical period triggers and brakes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11744-11752.	3.3	47
46	NPAS4 regulates the transcriptional response of the suprachiasmatic nucleus to light and circadian behavior. Neuron, 2021, 109, 3268-3282.e6.	3.8	46
47	Unidirectional Eph/ephrin signaling creates a cortical actomyosin differential to drive cell segregation. Journal of Cell Biology, 2016, 215, 217-229.	2.3	41
48	An Activity-Mediated Transition in Transcription in Early Postnatal Neurons. Neuron, 2020, 107, 874-890.e8.	3.8	41
49	Visual Experience-Dependent Expression of Fn14 Is Required for Retinogeniculate Refinement. Neuron, 2018, 99, 525-539.e10.	3.8	39
50	Spatial features of calcium-regulated gene expression. BioEssays, 1997, 19, 657-660.	1.2	36
51	The Eya1 Phosphatase Promotes Shh Signaling during Hindbrain Development and Oncogenesis. Developmental Cell, 2015, 33, 22-35.	3.1	35
52	ARNT2 Tunes Activity-Dependent Gene Expression through NCoR2-Mediated Repression and NPAS4-Mediated Activation. Neuron, 2019, 102, 390-406.e9.	3.8	35
53	A chemical genetic approach reveals distinct EphB signaling mechanisms during brain development. Nature Neuroscience, 2012, 15, 1645-1654.	7.1	33
54	Lineage divergence of activity-driven transcription and evolution of cognitive ability. Nature Reviews Neuroscience, 2018, 19, 9-15.	4.9	33

#	Article	IF	Citations
55	Activity-dependent regulome of human GABAergic neurons reveals new patterns of gene regulation and neurological disease heritability. Nature Neuroscience, 2021, 24, 437-448.	7.1	33
56	Kinesin superfamily protein Kif26b links Wnt5a-Ror signaling to the control of cell and tissue behaviors in vertebrates. ELife, 2017, 6, .	2.8	33
57	Neurotrophin Regulation of Gene Expression. Canadian Journal of Neurological Sciences, 1997, 24, 272-283.	0.3	32
58	Calcium Phosphate Transfection of DNA into Neurons in Primary Culture. Current Protocols in Neuroscience, 1998, 3, 3.11.1-3.11.6.	2.6	25
59	Chromatin Environment and Cellular Context Specify Compensatory Activity of Paralogous MEF2 Transcription Factors. Cell Reports, 2019, 29, 2001-2015.e5.	2.9	19
60	EphB1 and EphB2 intracellular domains regulate the formation of the corpus callosum and anterior commissure. Developmental Neurobiology, 2016, 76, 405-420.	1.5	18
61	Induction of a Nerve Growth Factor-Sensitive Kinase that Phosphorylates the DNA-Binding Domain of the Orphan Nuclear Receptor NGFI-B. Journal of Neurochemistry, 2002, 65, 1780-1788.	2.1	16
62	A Late Phase of Long-Term Synaptic Depression in Cerebellar Purkinje Cells Requires Activation of MEF2. Cell Reports, 2019, 26, 1089-1097.e3.	2.9	12
63	Homozygous deletions implicate non-coding epigenetic marks in Autism spectrum disorder. Scientific Reports, 2020, 10, 14045.	1.6	12
64	A Shortcut to Activity-Dependent Transcription. Cell, 2015, 161, 1496-1498.	13.5	9
65	Cilia and Hedgehog Signaling in the Mouse Embryo. , 2010, 102, 103-115.		9
66	Tracking the Road from Inflammation to Cancer: the Critical Role of IÎºB Kinase (IKK). , 2010, 102, 133-151.		8
67	Genomic mapping and cellular expression of human CPG2 transcripts in the SYNE1 gene. Molecular and Cellular Neurosciences, 2016, 71, 46-55.	1.0	6
68	Proteomic analysis identifies the E3 ubiquitin ligase Pdzrn3 as a regulatory target of Wnt5a-Ror signaling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6
69	Ca2+ channel-regulated neuronal gene expression. , 1998, 37, 171.		6
70	Identification of Newly Transcribed RNA. Current Protocols in Molecular Biology, 1994, 26, 4.10.1.	2.9	3
71	Signaling Networks that Control Synapse Development and Cognitive Function. , 2010, 102, 73-102.		1
72	Basal Bodies: Their Roles in Generating Asymmetry. , 2010, 102, 17-50.		1

#	Article	IF	Citations
73	Catching the Brain in the Act. Cell, 2016, 165, 1570-1571.	13.5	0
74	Protein Transport in and out of the Endoplasmic Reticulum. , 2010, 102, 51-72.		0
75	Active Members. , 0, , 179-189.		0
76	Former Officers of the Harvey Society. , 0, , 153-168.		0
77	Mechanisms of Wnt5aâ€Ror Signaling in Development and Disease. FASEB Journal, 2020, 34, 1-1.	0.2	0