James H Eubanks

List of Publications by Year
in descending order

72	2,805	201385 27	182168 51
papers	citations	h-index	g-index

73	73	73	3058
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hippocampal synaptic plasticity is impaired in the Mecp2-null mouse model of Rett syndrome. Neurobiology of Disease, 2006, 21, 217-227.	2.1	294
2	Preclinical research in Rett syndrome: setting the foundation for translational success. DMM Disease Models and Mechanisms, 2012, 5, 733-745.	1.2	183
3	Detection and characterization of additional DNA polymorphisms in the dopamine D2 receptor gene. Genomics, 1991, 10, 527-530.	1.3	180
4	Dual Neuroprotective Signaling Mediated by Downregulating Two Distinct Phosphatase Activities of PTEN. Journal of Neuroscience, 2004, 24, 4052-4060.	1.7	165
5	The expression of methyl CpG binding factor MeCP2 correlates with cellular differentiation in the developing rat brain and in cultured cells. Journal of Neurobiology, 2003, 55, 86-96.	3.7	159
6	The MeCP2â€•null mouse hippocampus displays altered basal inhibitory rhythms and is prone to hyperexcitability. Hippocampus, 2008, 18, 294-309.	0.9	128
7	Mitochondrial Dysfunction in the Pathogenesis of Rett Syndrome: Implications for Mitochondria-Targeted Therapies. Frontiers in Cellular Neuroscience, 2017, 11, 58.	1.8	95
8	Targeted delivery of an Mecp2 transgene to forebrain neurons improves the behavior of female Mecp2-deficient mice. Human Molecular Genetics, 2008, 17, 1386-1396.	1.4	92
9	Differential expression of sirtuin family members in the developing, adult, and aged rat brain. Frontiers in Aging Neuroscience, 2014, 6, 333.	1.7	79
10	Structure and linkage of the D2 dopamine receptor and neural cell adhesion molecule genes on human chromosome 11q23. Genomics, 1992, 14, 1010-1018.	1.3	72
11	Transient Global Ischemia Alters NMDA Receptor Expression in Rat Hippocampus: Correlation with Decreased Immunoreactive Protein Levels of the NR2A/2B Subunits, and an Altered NMDA Receptor Functionality. Journal of Neurochemistry, 1997, 69, 1983-1994.	2.1	72
12	Alterations of cortical and hippocampal EEG activity in MeCP2-deficient mice. Neurobiology of Disease, 2010, 38, 8-16.	2.1	70
13	Decreased Expression and Functionality of NMDA Receptor Complexes Persist in the CA1, but Not in the Dentate Gyrus after Transient Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 768-775.	2.4	55
14	Transient Ischemia Induces an Early Decrease of Synaptic Transmission in CA1 Neurons of Rat Hippocampus: Electrophysiologic Study in Brain Slices. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 955-966.	2.4	52
15	Detection and characterization of â€œChimericâ€•yeast artificial chromosome clones by fluorescent in Situ suppression hybridization. Genomics, 1992, 14, 536-541.	1.3	51
16	Rescue of behavioral and EEG deficits in male and female Mecp2-deficient mice by delayed Mecp2 gene reactivation. Human Molecular Genetics, 2014, 23, 303-318.	1.4	51
17	Brain Penetrable Histone Deacetylase 6 Inhibitor SW-100 Ameliorates Memory and Learning Impairments in a Mouse Model of Fragile X Syndrome. ACS Chemical Neuroscience, 2019, 10, 1679-1695.	1.7	50
18	Sirtuin 3 rescues neurons through the stabilisation of mitochondrial biogenetics in the virally-expressing mutant Î±-synuclein rat model of parkinsonism. Neurobiology of Disease, 2017, 106, 133-146.	2.1	48

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19	The Role of SIRT3 in the Brain Under Physiological and Pathological Conditions. Frontiers in Cellular Neuroscience, 2018, 12, 196.	1.8	45
20	Daily Rhythmic Behaviors and Thermoregulatory Patterns Are Disrupted in Adult Female MeCP2-Deficient Mice. PLoS ONE, 2012, 7, e35396.	1.1	42
21	Aminoglycosideâ€mediated partial suppression of MECP2 nonsense mutations responsible for Rett syndrome in vitro. Journal of Neuroscience Research, 2010, 88, 2316-2324.	1.3	40
22	Isolation, localization, and physical mapping of a highly polymorphic locus on human chromosome 11q13. Genomics, 1991, 11, 720-729.	1.3	35
23	ALA-PpIX mediated photodynamic therapy of malignant gliomas augmented by hypothermia. PLoS ONE, 2017, 12, e0181654.	1.1	32
24	Kainic acid-induced generalized seizures alter the regional hippocampal expression of the rat Kv4.2 potassium channel gene. Neuroscience Letters, 1997, 232, 91-94.	1.0	31
25	Localization of the D5 dopamine receptor gene to human chromosome 4p15.1â€“p15.3, centromeric to the Huntington's disease locus. Genomics, 1992, 12, 510-516.	1.3	30
26	Design and Synthesis of Mercaptoacetamides as Potent, Selective, and Brain Permeable Histone Deacetylase 6 Inhibitors. ACS Medicinal Chemistry Letters, 2017, 8, 510-515.	1.3	30
27	Selective preservation of MeCP2 in catecholaminergic cells is sufficient to improve the behavioral phenotype of male and female Mecp2-deficient mice. Human Molecular Genetics, 2013, 22, 358-371.	1.4	29
28	Decreased Hippocampal Expression, but Not Functionality, of GABABReceptors After Transient Cerebral Ischemia in Rats. Journal of Neurochemistry, 1999, 72, 87-94.	2.1	28
29	Regional MeCP2 expression levels in the female MeCP2-deficient mouse brain correlate with specific behavioral impairments. Experimental Neurology, 2013, 239, 49-59.	2.0	28
30	Seizures in Mouse Models of Rare Neurodevelopmental Disorders. Neuroscience, 2020, 445, 50-68.	1.1	28
31	Chromosomal in situ hybridization using yeast artificial chromosomes. Genetic Analysis, Techniques and Applications, 1991, 8, 59-66.	1.5	27
32	Effects of Antiepileptic Drugs on Spontaneous Recurrent Seizures in a Novel Model of Extended Hippocampal Kindling in Mice. Frontiers in Pharmacology, 2018, 9, 451.	1.6	26
33	Breeding and maintenance of an Mecp2-deficient mouse model of Rett syndrome. Journal of Neuroscience Methods, 2006, 154, 89-95.	1.3	25
34	Over-expression of the Sirt3 sirtuin Protects neuronally differentiated PC12 Cells from degeneration induced by oxidative stress and trophic withdrawal. Brain Research, 2014, 1587, 40-53.	1.1	25
35	Susceptibility to hippocampal kindling seizures is increased in aging C57 black mice. IBRO Reports, 2017, 3, 33-44.	0.3	25
36	Amygdala-kindled and electroconvulsive seizures alter hippocampal expression of the m1 and m3 muscarinic cholinergic receptor genes. Brain Research, 1998, 810, 9-15.	1.1	24

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37	Infantile spasms in down syndrome: Rescue by knockdown of the GIRK2 channel. Annals of Neurology, 2016, 80, 511-521.	2.8	22
38	From Function to Phenotype: Impaired DNA Binding and Clustering Correlates with Clinical Severity in Males with Missense Mutations in MECP2. Scientific Reports, 2016, 6, 38590.	1.6	21
39	Prediction of antiepileptic drug treatment outcomes using machine learning. Journal of Neural Engineering, 2017, 14, 016002.	1.8	21
40	Characterization of seizure-like events recorded in vivo in a mouse model of Rett syndrome. Neural Networks, 2013, 46, 109-115.	3.3	20
41	Modeling early-onset post-ischemic seizures in aging mice. Experimental Neurology, 2015, 271, 1-12.	2.0	19
42	Increased Expression of Vascular Endothelial Growth Factor-D Following Brain Injury. International Journal of Molecular Sciences, 2019, 20, 1594.	1.8	19
43	Early-Onset Convulsive Seizures Induced by Brain Hypoxia-Ischemia in Aging Mice: Effects of Anticonvulsive Treatments. PLoS ONE, 2015, 10, e0144113.	1.1	19
44	Kainic acid-induced generalized seizures alter the regional hippocampal expression of the rat m1 and m3 muscarinic acetylcholine receptor genes. Epilepsy Research, 1997, 29, 71-79.	0.8	18
45	Chromosomal localization of gene for human glutamate receptor subunit-7. Somatic Cell and Molecular Genetics, 1993, 19, 581-588.	0.7	15
46	Cerebral ischemia alters the regional hippocampal expression of the rat m1 muscarinic acetylcholine receptor gene. Neuroscience Letters, 1996, 219, 87-90.	1.0	15
47	Electrographic and pharmacological characterization of a progressive epilepsy phenotype in female MeCP2-deficient mice. Epilepsy Research, 2018, 140, 177-183.	0.8	14
48	Impaired Spatial Learning and Memory in Middle-Aged Mice with Kindling-Induced Spontaneous Recurrent Seizures. Frontiers in Pharmacology, 2019, 10, 1077.	1.6	13
49	Perforant pathway kindling transiently induces the mRNA expression of GABA-B receptor subtypes R1A and R2 in the adult rat hippocampus. Molecular Brain Research, 2001, 91, 159-162.	2.5	12
50	Telescoped continuous flow generation of a library of highly substituted 3-thio-1,2,4-triazoles. Reaction Chemistry and Engineering, 2017, 2, 896-907.	1.9	12
51	Reversible attenuation of glutamatergic transmission in hippocampal CA1 neurons of rat brain slices following transient cerebral ischemia. Brain Research, 1999, 832, 31-39.	1.1	11
52	Effects of neonatal hypoxic-ischemic episodes on late seizure outcomes in C57 black mice. Epilepsy Research, 2015, 111, 142-149.	0.8	11
53	Altered Expression Levels of SEF-2 and p112 in the Rat Hippocampus after Transient Cerebral Ischemia: Identification by mRNA Differential Display. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 435-442.	2.4	10
54	Decreased expression and impaired function of muscarinic acetylcholine receptors in the rat hippocampus following transient forebrain ischemia. Neurobiology of Disease, 2005, 20, 805-813.	2.1	9

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55	Network Models Predict that Reduced Excitatory Fluctuations Can Give Rise to Hippocampal Network Hyper-Excitability in MeCP2-Null Mice. PLoS ONE, 2014, 9, e91148.	1.1	9
56	A Role for Diminished GABA Transporter Activity in the Cortical Discharge Phenotype of MeCP2-Deficient Mice. Neuropsychopharmacology, 2016, 41, 1467-1476.	2.8	9
57	Interregulation between fragile X mental retardation protein and methyl CpG binding protein 2 in the mouse posterior cerebral cortex. Human Molecular Genetics, 2021, 29, 3744-3756.	1.4	9
58	mRNA expression of transient receptor potential melastatin (TRPM) channels 2 and 7 in perinatal brain development. International Journal of Developmental Neuroscience, 2018, 69, 23-31.	0.7	7
59	Low frequency-modulated high frequency oscillations in seizure-like events recorded from in-vivo MeCP2-deficient mice. , 2013, 2013, 985-8.		6
60	Characterization of HFOs in short and long duration discharges recorded from in-vivo MeCP2-deficient mice. , 2014, 2014, 4603-6.		6
61	Regional localization of the highly polymorphic locus D11S533 on the linkage map of human chromosome 11q. Genomics, 1992, 14, 820.	1.3	5
62	Three distinct neuronal phenotypes exist in embryonic rat hippocampal neurons cultured in basic fibroblast growth factor. Neuroscience Letters, 1996, 204, 5-8.	1.0	5
63	Electrographic Features of Spontaneous Recurrent Seizures in a Mouse Model of Extended Hippocampal Kindling. Cerebral Cortex Communications, 2021, 2, tgab004.	0.7	5
64	EEG analysis for estimation of duration and inter-event intervals of seizure-like events recorded in vivo from mice. , 2011, 2011, 2570-3.		4
65	Support vector machines using EEG features of cross-frequency coupling can predict treatment outcome in Mecp2-deficient mice. , 2015, 2015, 5606-9.		4
66	Diazepam-potentiated [3H]phenytoin binding is associated with peripheral-type benzodiazepine receptors and not with voltage-dependent sodium channels. Brain Research, 2000, 876, 131-140.	1.1	3
67	Long-term bFGF neuronal culture: reintroduction into serum medium yields neurons and non-neuronal cells with neuronal characteristics. Neuroscience Letters, 1995, 194, 65-68.	1.0	2
68	Gene reactivation diminishes delta-modulated high frequency oscillations during seizure-like events in Mecp2-deficient mice. , 2015, , .		2
69	Somatostatin type 2 receptor expression in the rat hippocampus following cerebral ischemia. NeuroReport, 2001, 12, 2105-2109.	0.6	1
70	Epilepsy in Models of Rett Syndrome. , 2017, , 1079-1090.		1
71	In Some Cases, Once May Be Enough. Pediatric Research, 2000, 48, 716-716.	1.1	0
72	Intrinsic hippocampal network activity is altered in MeCP2-deficient mice. BMC Neuroscience, 2007, 8, .	0.8	0