

Amelia J Eisch

List of Publications by Year in descending order

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120
papers

20,348
citations

18465

62
h-index

19726

117
g-index

130
all docs

130
docs citations

130
times ranked

20788
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic Antidepressant Treatment Increases Neurogenesis in Adult Rat Hippocampus. <i>Journal of Neuroscience</i> , 2000, 20, 9104-9110.	1.7	2,822
2	Neurobiology of Depression. <i>Neuron</i> , 2002, 34, 13-25.	3.8	2,688
3	Molecular Adaptations Underlying Susceptibility and Resistance to Social Defeat in Brain Reward Regions. <i>Cell</i> , 2007, 131, 391-404.	13.5	1,927
4	Opiates inhibit neurogenesis in the adult rat hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 7579-7584.	3.3	555
5	Dnmt3a regulates emotional behavior and spine plasticity in the nucleus accumbens. <i>Nature Neuroscience</i> , 2010, 13, 1137-1143.	7.1	553
6	CREB activity in the nucleus accumbens shell controls gating of behavioral responses to emotional stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11435-11440.	3.3	447
7	Dynamic Contribution of Nestin-Expressing Stem Cells to Adult Neurogenesis. <i>Journal of Neuroscience</i> , 2007, 27, 12623-12629.	1.7	443
8	Depression and Hippocampal Neurogenesis: A Road to Remission?. <i>Science</i> , 2012, 338, 72-75.	6.0	413
9	Neurod1 is essential for the survival and maturation of adult-born neurons. <i>Nature Neuroscience</i> , 2009, 12, 1090-1092.	7.1	394
10	Not(ch) just development: Notch signalling in the adult brain. <i>Nature Reviews Neuroscience</i> , 2011, 12, 269-283.	4.9	384
11	Brain-derived neurotrophic factor in the ventral midbrainâ€“nucleus accumbens pathway: a role in depression. <i>Biological Psychiatry</i> , 2003, 54, 994-1005.	0.7	375
12	Involvement of the Lateral Hypothalamic Peptide Orexin in Morphine Dependence and Withdrawal. <i>Journal of Neuroscience</i> , 2003, 23, 3106-3111.	1.7	335
13	Aberrant hippocampal neurogenesis contributes to epilepsy and associated cognitive decline. <i>Nature Communications</i> , 2015, 6, 6606.	5.8	333
14	Decreased adult hippocampal neurogenesis in the PDAPP mouse model of Alzheimer's disease. <i>Journal of Comparative Neurology</i> , 2006, 495, 70-83.	0.9	328
15	Adult hippocampal neurogenesis is functionally important for stress-induced social avoidance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4436-4441.	3.3	289
16	Notch1 Is Required for Maintenance of the Reservoir of Adult Hippocampal Stem Cells. <i>Journal of Neuroscience</i> , 2010, 30, 10484-10492.	1.7	266
17	Î² Kinase Regulates Social Defeat Stress-Induced Synaptic and Behavioral Plasticity. <i>Journal of Neuroscience</i> , 2011, 31, 314-321.	1.7	243
18	Adult Neurogenesis, Mental Health, and Mental Illness: Hope or Hype?: Figure 1.. <i>Journal of Neuroscience</i> , 2008, 28, 11785-11791.	1.7	225

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19	Hippocampal neurogenesis as a target for the treatment of mental illness: A critical evaluation. <i>Neuropharmacology</i> , 2010, 58, 884-893.	2.0	222
20	Ascl1 (Mash1) Defines Cells with Long-Term Neurogenic Potential in Subgranular and Subventricular Zones in Adult Mouse Brain. <i>PLoS ONE</i> , 2011, 6, e18472.	1.1	217
21	The neurogenesis hypothesis of affective and anxiety disorders: Are we mistaking the scaffolding for the building?. <i>Neuropharmacology</i> , 2012, 62, 21-34.	2.0	209
22	Ablation of Fmrp in adult neural stem cells disrupts hippocampus-dependent learning. <i>Nature Medicine</i> , 2011, 17, 559-565.	15.2	205
23	Cloning and localization of the hyperpolarization-activated cyclic nucleotide-gated channel family in rat brain. <i>Molecular Brain Research</i> , 2000, 81, 129-139.	2.5	201
24	The BAF Complex Interacts with Pax6 in Adult Neural Progenitors to Establish a Neurogenic Cross-Regulatory Transcriptional Network. <i>Cell Stem Cell</i> , 2013, 13, 403-418.	5.2	196
25	Reduction of Adult Hippocampal Neurogenesis Confers Vulnerability in an Animal Model of Cocaine Addiction. <i>Journal of Neuroscience</i> , 2010, 30, 304-315.	1.7	195
26	IRS2-Akt pathway in midbrain dopamine neurons regulates behavioral and cellular responses to opiates. <i>Nature Neuroscience</i> , 2007, 10, 93-99.	7.1	188
27	Determination of key aspects of precursor cell proliferation, cell cycle length and kinetics in the adult mouse subgranular zone. <i>Neuroscience</i> , 2007, 146, 108-122.	1.1	186
28	Regulation of Drug Reward by cAMP Response Element-Binding Protein: Evidence for Two Functionally Distinct Subregions of the Ventral Tegmental Area. <i>Journal of Neuroscience</i> , 2005, 25, 5553-5562.	1.7	172
29	Opiates, psychostimulants, and adult hippocampal neurogenesis: Insights for addiction and stem cell biology. <i>Hippocampus</i> , 2006, 16, 271-286.	0.9	169
30	AKT Signaling within the Ventral Tegmental Area Regulates Cellular and Behavioral Responses to Stressful Stimuli. <i>Biological Psychiatry</i> , 2008, 64, 691-700.	0.7	156
31	Ascl1 defines sequentially generated lineage-restricted neuronal and oligodendrocyte precursor cells in the spinal cord. <i>Development (Cambridge)</i> , 2007, 134, 285-293.	1.2	154
32	Role for GDNF in Biochemical and Behavioral Adaptations to Drugs of Abuse. <i>Neuron</i> , 2000, 26, 247-257.	3.8	143
33	Epigenetics, hippocampal neurogenesis, and neuropsychiatric disorders: Unraveling the genome to understand the mind. <i>Neurobiology of Disease</i> , 2010, 39, 73-84.	2.1	132
34	Methamphetamine Self-Administration and Voluntary Exercise Have Opposing Effects on Medial Prefrontal Cortex Gliogenesis. <i>Journal of Neuroscience</i> , 2007, 27, 11442-11450.	1.7	125
35	Gender and endogenous levels of estradiol do not influence adult hippocampal neurogenesis in mice. <i>Hippocampus</i> , 2007, 17, 175-180.	0.9	125
36	Kctd13 deletion reduces synaptic transmission via increased RhoA. <i>Nature</i> , 2017, 551, 227-231.	13.7	125

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37	The P7C3 class of neuroprotective compounds exerts antidepressant efficacy in mice by increasing hippocampal neurogenesis. <i>Molecular Psychiatry</i> , 2015, 20, 500-508.	4.1	119
38	Focal cerebral ischemia induces a multilineage cytogenic response from adult subventricular zone that is predominantly gliogenic. <i>Glia</i> , 2010, 58, 1610-1619.	2.5	118
39	Chronic morphine induces premature mitosis of proliferating cells in the adult mouse subgranular zone. <i>Journal of Neuroscience Research</i> , 2004, 76, 783-794.	1.3	112
40	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. <i>Life Sciences in Space Research</i> , 2016, 8, 38-51.	1.2	112
41	Methamphetamine neurotoxicity: Dissociation of striatal dopamine terminal damage from parietal cortical cell body injury. <i>Synapse</i> , 1998, 30, 433-445.	0.6	111
42	Striatal subregions are differentially vulnerable to the neurotoxic effects of methamphetamine. <i>Brain Research</i> , 1992, 598, 321-326.	1.1	110
43	Re-evaluating the link between neuropsychiatric disorders and dysregulated adult neurogenesis. <i>Nature Medicine</i> , 2016, 22, 1239-1247.	15.2	110
44	Varied Access to Intravenous Methamphetamine Self-Administration Differentially Alters Adult Hippocampal Neurogenesis. <i>Biological Psychiatry</i> , 2008, 64, 958-965.	0.7	109
45	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. <i>Synapse</i> , 1998, 30, 329-333.	0.6	106
46	Cdk5 is essential for adult hippocampal neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18567-18571.	3.3	104
47	Withdrawal from Cocaine Self-Administration Normalizes Deficits in Proliferation and Enhances Maturity of Adult-Generated Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 2516-2526.	1.7	104
48	Mouse Models of Alzheimer's Disease: Insight into Treatment. <i>Reviews in the Neurosciences</i> , 2004, 15, 353-370.	1.4	101
49	<i>In vivo</i> contribution of nestin ⁺ and GLAST ⁺ lineage cells to adult hippocampal neurogenesis. <i>Hippocampus</i> , 2013, 23, 708-719.	0.9	101
50	Adult neurogenesis: implications for psychiatry. <i>Progress in Brain Research</i> , 2002, 138, 315-342.	0.9	90
51	Making a neuron: Cdk5 in embryonic and adult neurogenesis. <i>Trends in Neurosciences</i> , 2009, 32, 575-582.	4.2	89
52	Dynamic expression of TrkB receptor protein on proliferating and maturing cells in the adult mouse dentate gyrus. <i>Hippocampus</i> , 2008, 18, 435-439.	0.9	86
53	Stress experienced <i>in utero</i> reduces sexual dichotomies in neurogenesis, microenvironment, and cell death in the adult rat hippocampus. <i>Developmental Neurobiology</i> , 2008, 68, 575-589.	1.5	85
54	Stimulation of entorhinal cortex ⁺ dentate gyrus circuitry is antidepressive. <i>Nature Medicine</i> , 2018, 24, 658-666.	15.2	83

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55	B cells migrate into remote brain areas and support neurogenesis and functional recovery after focal stroke in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4983-4993.	3.3	83
56	Juvenile Administration of Methylphenidate Attenuates Adult Hippocampal Neurogenesis. <i>Biological Psychiatry</i> , 2006, 60, 1121-1130.	0.7	80
57	Knockout of the mu opioid receptor enhances the survival of adult-generated hippocampal granule cell neurons. <i>Neuroscience</i> , 2007, 144, 77-87.	1.1	80
58	Time course of morphine's effects on adult hippocampal subgranular zone reveals preferential inhibition of cells in S phase of the cell cycle and a subpopulation of immature neurons. <i>Neuroscience</i> , 2008, 157, 70-79.	1.1	80
59	Cell-Autonomous Inactivation of the Reelin Pathway Impairs Adult Neurogenesis in the Hippocampus. <i>Journal of Neuroscience</i> , 2012, 32, 12051-12065.	1.7	78
60	Arid1b haploinsufficient mice reveal neuropsychiatric phenotypes and reversible causes of growth impairment. <i>ELife</i> , 2017, 6, .	2.8	74
61	Alteration of hippocampal cell proliferation in mice lacking the $\alpha 2$ subunit of the neuronal nicotinic acetylcholine receptor. <i>Synapse</i> , 2004, 54, 200-206.	0.6	71
62	Striatal and cortical NMDA receptors are altered by a neurotoxic regimen of methamphetamine. <i>Synapse</i> , 1996, 22, 217-225.	0.6	70
63	Adult Neurogenesis: Can Analysis of Cell Cycle Proteins Move Us "Beyond BrdU"? <i>Current Pharmaceutical Biotechnology</i> , 2007, 8, 147-165.	0.9	70
64	Functional and mechanistic exploration of an adult neurogenesis-promoting small molecule. <i>FASEB Journal</i> , 2012, 26, 3148-3162.	0.2	66
65	Block of glucocorticoid synthesis during re-activation inhibits extinction of an established fear memory. <i>Neurobiology of Learning and Memory</i> , 2011, 95, 453-460.	1.0	63
66	Fate Mapping and Lineage Analyses Demonstrate the Production of a Large Number of Striatal Neuroblasts After Transforming Growth Factor $\beta 1$ and Noggin Striatal Infusions into the Dopamine-Depleted Striatum. <i>Stem Cells</i> , 2008, 26, 2349-2360.	1.4	61
67	Dopamine receptor regulating factor, DRRF: A zinc finger transcription factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 7558-7563.	3.3	59
68	Phospholipase $C\beta 3$ in Distinct Regions of the Ventral Tegmental Area Differentially Modulates Mood-Related Behaviors. <i>Journal of Neuroscience</i> , 2003, 23, 7569-7576.	1.7	59
69	Electroconvulsive Seizures Stimulate Glial Proliferation and Reduce Expression of Sprouty2 within the Prefrontal Cortex of Rats. <i>Biological Psychiatry</i> , 2007, 62, 505-512.	0.7	59
70	Acute and Fractionated Exposure to High-LET ^{56}Fe HZE-Particle Radiation Both Result in Similar Long-Term Deficits in Adult Hippocampal Neurogenesis. <i>Radiation Research</i> , 2013, 180, 658-667.	0.7	59
71	Detection and Phenotypic Characterization of Adult Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a025981.	2.3	59
72	The Interesting Interplay Between Interneurons and Adult Hippocampal Neurogenesis. <i>Molecular Neurobiology</i> , 2011, 44, 287-302.	1.9	58

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73	Cell-intrinsic signals that regulate adult neurogenesis in vivo: insights from inducible approaches. <i>BMB Reports</i> , 2009, 42, 245-259.	1.1	58
74	Calcium-Sensitive Adenylyl Cyclases in Depression and Anxiety: Behavioral and Biochemical Consequences of Isoform Targeting. <i>Biological Psychiatry</i> , 2008, 64, 336-343.	0.7	55
75	Whole-Body Exposure to ²⁸ Si-Radiation Dose-Dependently Disrupts Dentate Gyrus Neurogenesis and Proliferation in the Short Term and New Neuron Survival and Contextual Fear Conditioning in the Long Term. <i>Radiation Research</i> , 2017, 188, 612-631.	0.7	53
76	Effect of chronic morphine on the dentate gyrus neurogenic microenvironment. <i>Neuroscience</i> , 2009, 159, 1003-1010.	1.1	52
77	Differential expression and regulation of the cAMP-selective phosphodiesterase type 4A splice variants in rat brain by chronic antidepressant administration. <i>European Journal of Neuroscience</i> , 2005, 22, 1463-1475.	1.2	48
78	Which way does the Wnt blow? Exploring the duality of canonical Wnt signaling on cellular aging. <i>BioEssays</i> , 2008, 30, 102-106.	1.2	48
79	Resistance to change and vulnerability to stress: autistic-like features of <i>GAP43</i> deficient mice. <i>Genes, Brain and Behavior</i> , 2010, 9, 985-996.	1.1	48
80	Drug Dependence and Addiction, II: Adult Neurogenesis and Drug Abuse. <i>American Journal of Psychiatry</i> , 2004, 161, 426-426.	4.0	47
81	Delayed Reduction of Hippocampal Synaptic Transmission and Spines Following Exposure to Repeated Subclinical Doses of Organophosphorus Pesticide in Adult Mice. <i>Toxicological Sciences</i> , 2012, 125, 196-208.	1.4	47
82	Stress-Induced Anxiety- and Depressive-Like Phenotype Associated with Transient Reduction in Neurogenesis in Adult Nestin-CreERT2/Diphtheria Toxin Fragment A Transgenic Mice. <i>PLoS ONE</i> , 2016, 11, e0147256.	1.1	46
83	Regulation of GFR β -1 and GFR β -2 mRNAs in rat brain by electroconvulsive seizure. <i>Synapse</i> , 2001, 39, 42-50.	0.6	43
84	Reinforcement-Related Regulation of AMPA Glutamate Receptor Subunits in the Ventral Tegmental Area Enhances Motivation for Cocaine. <i>Journal of Neuroscience</i> , 2011, 31, 7927-7937.	1.7	38
85	Morphine blood levels, dependence, and regulation of hippocampal subgranular zone proliferation rely on administration paradigm. <i>Neuroscience</i> , 2008, 151, 1217-1224.	1.1	36
86	Nestin promoter/enhancer directs transgene expression to precursors of adult generated periglomerular neurons. <i>Journal of Comparative Neurology</i> , 2004, 475, 128-141.	0.9	35
87	Multi-domain cognitive assessment of male mice shows space radiation is not harmful to high-level cognition and actually improves pattern separation. <i>Scientific Reports</i> , 2020, 10, 2737.	1.6	35
88	⁵⁶ Fe particle exposure results in a long-lasting increase in a cellular index of genomic instability and transiently suppresses adult hippocampal neurogenesis in vivo. <i>Life Sciences in Space Research</i> , 2014, 2, 70-79.	1.2	33
89	Regional, cellular, and subcellular localization of RGS10 in rodent brain. <i>Journal of Comparative Neurology</i> , 2005, 481, 299-313.	0.9	24
90	Developmental and Adult GAP-43 Deficiency in Mice Dynamically Alters Hippocampal Neurogenesis and Mossy Fiber Volume. <i>Developmental Neuroscience</i> , 2014, 36, 44-63.	1.0	24

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91	Chronic P7C3 treatment restores hippocampal neurogenesis. <i>Neuroscience Letters</i> , 2015, 591, 86-92.	1.0	23
92	Inducible knockout of Mef2a, c, and d from nestin-expressing stem/progenitor cells and their progeny unexpectedly uncouples neurogenesis and dendritogenesis <i>in vivo</i> . <i>FASEB Journal</i> , 2015, 29, 5059-5071.	0.2	23
93	Optimizing brain performance: Identifying mechanisms of adaptive neurobiological plasticity. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 105, 60-71.	2.9	23
94	Female and male rats readily consume and prefer oxycodone to water in a chronic, continuous access, two-bottle oral voluntary paradigm. <i>Neuropharmacology</i> , 2020, 167, 107978.	2.0	23
95	Impaired neurogenesis, learning and memory and low seizure threshold associated with loss of neural precursor cell survivin. <i>BMC Neuroscience</i> , 2010, 11, 2.	0.8	20
96	Does chronic systemic injection of the DREADD agonists clozapine-N-oxide or Compound 21 change behavior relevant to locomotion, exploration, anxiety, and depression in male non-DREADD-expressing mice?. <i>Neuroscience Letters</i> , 2020, 739, 135432.	1.0	20
97	Methadone does not alter key parameters of adult hippocampal neurogenesis in the heroin-naïve rat. <i>Neuroscience Letters</i> , 2012, 516, 99-104.	1.0	19
98	To be or not to be: adult neurogenesis and psychiatry. <i>Clinical Neuroscience Research</i> , 2002, 2, 93-108.	0.8	18
99	Image-guided cranial irradiation-induced ablation of dentate gyrus neurogenesis impairs extinction of recent morphine reward memories. <i>Hippocampus</i> , 2019, 29, 726-735.	0.9	16
100	The effect of spaceflight on mouse olfactory bulb volume, neurogenesis, and cell death indicates the protective effect of novel environment. <i>Journal of Applied Physiology</i> , 2014, 116, 1593-1604.	1.2	15
101	Multi-Domain Touchscreen-Based Cognitive Assessment of C57BL/6J Female Mice Shows Whole-Body Exposure to 56Fe Particle Space Radiation in Maturity Improves Discrimination Learning Yet Impairs Stimulus-Response Rule-Based Habit Learning. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 722780.	1.0	15
102	Early Postnatal In Vivo Gliogenesis From Nestin-Lineage Progenitors Requires Cdk5. <i>PLoS ONE</i> , 2013, 8, e72819.	1.1	14
103	Chromatin Remodeling Factor Brg1 Supports the Early Maintenance and Late Responsiveness of Nestin-Lineage Adult Neural Stem and Progenitor Cells. <i>Stem Cells</i> , 2015, 33, 3655-3665.	1.4	13
104	Retrieval of morphine-associated context induces cFos in dentate gyrus neurons. <i>Hippocampus</i> , 2015, 25, 409-414.	0.9	13
105	Dentate gyrus neurogenesis ablation via cranial irradiation enhances morphine self-administration and locomotor sensitization. <i>Addiction Biology</i> , 2018, 23, 665-675.	1.4	13
106	Whole-Body 12C Irradiation Transiently Decreases Mouse Hippocampal Dentate Gyrus Proliferation and Immature Neuron Number, but Does Not Change New Neuron Survival Rate. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3078.	1.8	13
107	Mild Traumatic Brain Injury Induces Transient, Sequential Increases in Proliferation, Neuroblasts/Immature Neurons, and Cell Survival: A Time Course Study in the Male Mouse Dentate Gyrus. <i>Frontiers in Neuroscience</i> , 2020, 14, 612749.	1.4	13
108	Mood-stabilizing Drugs: Are Their Neuroprotective Aspects Clinically Relevant?. <i>Psychiatric Clinics of North America</i> , 2005, 28, 399-414.	0.7	10

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109	Effects of a 33-ion sequential beam galactic cosmic ray analog on male mouse behavior and evaluation of CDDO-EA as a radiation countermeasure. Behavioural Brain Research, 2022, 419, 113677.	1.2	9
110	Hippocampal Neurogenesis: A Matter of Survival. American Journal of Psychiatry, 2007, 164, 205-205.	4.0	5
111	Indices of dentate gyrus neurogenesis are unaffected immediately after or following withdrawal from morphine self-administration compared to saline self-administering control male rats. Behavioural Brain Research, 2020, 381, 112448.	1.2	5
112	Therapeutic application of neural stem cells and adult neurogenesis for neurodegenerative disorders: regeneration and beyond. European Journal of Neurodegenerative Disease, 2012, 1, 335-351.	0.0	5
113	Maternal continuous oral oxycodone self-administration alters pup affective/social communication but not spatial learning or sensory-motor function. Drug and Alcohol Dependence, 2021, 221, 108628.	1.6	4
114	In vivo regulation of glial cell line-derived neurotrophic factor-inducible transcription factor by kainic acid. Neuroscience, 1999, 94, 629-636.	1.1	3
115	Adult hippocampal neurogenesis is not necessary for the response to lithium in the forced swim test. Neuroscience Letters, 2019, 704, 67-72.	1.0	3
116	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. , 1998, 30, 329.		2
117	Adult Neurogenesis and Central Nervous System Cell Cycle Analysis. , 2006, , 331-358.		1
118	Addiction, Hippocampal Neurogenesis, and Neuroplasticity in the Adult Brain. , 2013, , 291-303.		1
119	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. , 1998, 30, 329.		1
120	A NAc for Spinal Adjustments After Cocaine or Stress. Biological Psychiatry, 2016, 79, 872-874.	0.7	0