

# 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	Effects of a 33-ion sequential beam galactic cosmic ray analog on male mouse behavior and evaluation of CDDO-EA as a radiation countermeasure. <i>Behavioural Brain Research</i> , 2022, 419, 113677.	1.2	9
2	Maternal continuous oral oxycodone self-administration alters pup affective/social communication but not spatial learning or sensory-motor function. <i>Drug and Alcohol Dependence</i> , 2021, 221, 108628.	1.6	4
3	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
4	Indices of dentate gyrus neurogenesis are unaffected immediately after or following withdrawal from morphine self-administration compared to saline self-administering control male rats. <i>Behavioural Brain Research</i> , 2020, 381, 112448.	1.2	5
5	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
6	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
7	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
8	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
9	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
10	Optimizing brain performance: Identifying mechanisms of adaptive neurobiological plasticity. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 105, 60-71.	2.9	23
11	Adult hippocampal neurogenesis is not necessary for the response to lithium in the forced swim test. <i>Neuroscience Letters</i> , 2019, 704, 67-72.	1.0	3
12	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
13	Stimulation of entorhinal cortex dentate gyrus circuitry is antidepressive. <i>Nature Medicine</i> , 2018, 24, 658-666.	15.2	83
14	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
15	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
16	Kctd13 deletion reduces synaptic transmission via increased RhoA. <i>Nature</i> , 2017, 551, 227-231.	13.7	125
17	Whole-Body Exposure to <sup>28</sup> 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
18	Arid1b haploinsufficient mice reveal neuropsychiatric phenotypes and reversible causes of growth impairment. <i>ELife</i> , 2017, 6, .	2.8	74

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19	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
20	A NAc for Spinal Adjustments After Cocaine or Stress. <i>Biological Psychiatry</i> , 2016, 79, 872-874.	0.7	0
21	Detection and Phenotypic Characterization of Adult Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a025981.	2.3	59
22	Re-evaluating the link between neuropsychiatric disorders and dysregulated adult neurogenesis. <i>Nature Medicine</i> , 2016, 22, 1239-1247.	15.2	110
23	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. <i>Life Sciences in Space Research</i> , 2016, 8, 38-51.	1.2	112
24	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
25	Chronic P7C3 treatment restores hippocampal neurogenesis. <i>Neuroscience Letters</i> , 2015, 591, 86-92.	1.0	23
26	Aberrant hippocampal neurogenesis contributes to epilepsy and associated cognitive decline. <i>Nature Communications</i> , 2015, 6, 6606.	5.8	333
27	Inducible knockout of Mef2a, $\alpha$ , and $\beta$ 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
28	Retrieval of morphine-associated context induces cFos in dentate gyrus neurons. <i>Hippocampus</i> , 2015, 25, 409-414.	0.9	13
29	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
30	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
31	<sup>56</sup> Fe particle exposure results in a long-lasting increase in a cellular index of genomic instability and transiently suppresses adult hippocampal neurogenesis <i>in vivo</i> . <i>Life Sciences in Space Research</i> , 2014, 2, 70-79.	1.2	33
32	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
33	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
34	Acute and Fractionated Exposure to High-LET <sup>56</sup> 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
35	Addiction, Hippocampal Neurogenesis, and Neuroplasticity in the Adult Brain. , 2013, , 291-303.		1
36	<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

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37	Early Postnatal In Vivo Gliogenesis From Nestin-Lineage Progenitors Requires Cdk5. PLoS ONE, 2013, 8, e72819.	1.1	14
38	Functional and mechanistic exploration of an adult neurogenesis-promoting small molecule. FASEB Journal, 2012, 26, 3148-3162.	0.2	66
39	Cell-Autonomous Inactivation of the Reelin Pathway Impairs Adult Neurogenesis in the Hippocampus. Journal of Neuroscience, 2012, 32, 12051-12065.	1.7	78
40	Delayed Reduction of Hippocampal Synaptic Transmission and Spines Following Exposure to Repeated Subclinical Doses of Organophosphorus Pesticide in Adult Mice. Toxicological Sciences, 2012, 125, 196-208.	1.4	47
41	The neurogenesis hypothesis of affective and anxiety disorders: Are we mistaking the scaffolding for the building?. Neuropharmacology, 2012, 62, 21-34.	2.0	209
42	Depression and Hippocampal Neurogenesis: A Road to Remission?. Science, 2012, 338, 72-75.	6.0	413
43	Methadone does not alter key parameters of adult hippocampal neurogenesis in the heroin-naïve rat. Neuroscience Letters, 2012, 516, 99-104.	1.0	19
44	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
45	Ablation of Fmrip in adult neural stem cells disrupts hippocampus-dependent learning. Nature Medicine, 2011, 17, 559-565.	15.2	205
46	Block of glucocorticoid synthesis during re-activation inhibits extinction of an established fear memory. Neurobiology of Learning and Memory, 2011, 95, 453-460.	1.0	63
47	Not(ch) just development: Notch signalling in the adult brain. Nature Reviews Neuroscience, 2011, 12, 269-283.	4.9	384
48	The Interesting Interplay Between Interneurons and Adult Hippocampal Neurogenesis. Molecular Neurobiology, 2011, 44, 287-302.	1.9	58
49	Reinforcement-Related Regulation of AMPA Glutamate Receptor Subunits in the Ventral Tegmental Area Enhances Motivation for Cocaine. Journal of Neuroscience, 2011, 31, 7927-7937.	1.7	38
50	Ascl1 (Mash1) Defines Cells with Long-Term Neurogenic Potential in Subgranular and Subventricular Zones in Adult Mouse Brain. PLoS ONE, 2011, 6, e18472.	1.1	217
51	Î² Kinase Regulates Social Defeat Stress-Induced Synaptic and Behavioral Plasticity. Journal of Neuroscience, 2011, 31, 314-321.	1.7	243
52	Epigenetics, hippocampal neurogenesis, and neuropsychiatric disorders: Unraveling the genome to understand the mind. Neurobiology of Disease, 2010, 39, 73-84.	2.1	132
53	Impaired neurogenesis, learning and memory and low seizure threshold associated with loss of neural precursor cell survivin. BMC Neuroscience, 2010, 11, 2.	0.8	20
54	Focal cerebral ischemia induces a multilineage cytogenic response from adult subventricular zone that is predominantly gliogenic. Glia, 2010, 58, 1610-1619.	2.5	118

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55	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
56	Dnmt3a regulates emotional behavior and spine plasticity in the nucleus accumbens. <i>Nature Neuroscience</i> , 2010, 13, 1137-1143.	7.1	553
57	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
58	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
59	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
60	Hippocampal neurogenesis as a target for the treatment of mental illness: A critical evaluation. <i>Neuropharmacology</i> , 2010, 58, 884-893.	2.0	222
61	Neurod1 is essential for the survival and maturation of adult-born neurons. <i>Nature Neuroscience</i> , 2009, 12, 1090-1092.	7.1	394
62	Making a neuron: Cdk5 in embryonic and adult neurogenesis. <i>Trends in Neurosciences</i> , 2009, 32, 575-582.	4.2	89
63	Effect of chronic morphine on the dentate gyrus neurogenic microenvironment. <i>Neuroscience</i> , 2009, 159, 1003-1010.	1.1	52
64	Cell-intrinsic signals that regulate adult neurogenesis in vivo: insights from inducible approaches. <i>BMB Reports</i> , 2009, 42, 245-259.	1.1	58
65	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
66	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
67	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
68	Fate Mapping and Lineage Analyses Demonstrate the Production of a Large Number of Striatal Neuroblasts After Transforming Growth Factor $\beta$ and Noggin Striatal Infusions into the Dopamine-Depleted Striatum. <i>Stem Cells</i> , 2008, 26, 2349-2360.	1.4	61
69	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
70	Varied Access to Intravenous Methamphetamine Self-Administration Differentially Alters Adult Hippocampal Neurogenesis. <i>Biological Psychiatry</i> , 2008, 64, 958-965.	0.7	109
71	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
72	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

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73	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
74	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
75	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
76	Adult Neurogenesis, Mental Health, and Mental Illness: Hope or Hype?: Figure 1.. <i>Journal of Neuroscience</i> , 2008, 28, 11785-11791.	1.7	225
77	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
78	Dynamic Contribution of Nestin-Expressing Stem Cells to Adult Neurogenesis. <i>Journal of Neuroscience</i> , 2007, 27, 12623-12629.	1.7	443
79	Adult Neurogenesis: Can Analysis of Cell Cycle Proteins Move Us "Beyond BrdU"? <i>Current Pharmaceutical Biotechnology</i> , 2007, 8, 147-165.	0.9	70
80	Hippocampal Neurogenesis: A Matter of Survival. <i>American Journal of Psychiatry</i> , 2007, 164, 205-205.	4.0	5
81	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
82	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
83	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
84	Molecular Adaptations Underlying Susceptibility and Resistance to Social Defeat in Brain Reward Regions. <i>Cell</i> , 2007, 131, 391-404.	13.5	1,927
85	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
86	Gender and endogenous levels of estradiol do not influence adult hippocampal neurogenesis in mice. <i>Hippocampus</i> , 2007, 17, 175-180.	0.9	125
87	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
88	Adult Neurogenesis and Central Nervous System Cell Cycle Analysis. , 2006, , 331-358.		1
89	Juvenile Administration of Methylphenidate Attenuates Adult Hippocampal Neurogenesis. <i>Biological Psychiatry</i> , 2006, 60, 1121-1130.	0.7	80
90	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

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91	Opiates, psychostimulants, and adult hippocampal neurogenesis: Insights for addiction and stem cell biology. <i>Hippocampus</i> , 2006, 16, 271-286.	0.9	169
92	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
93	Regional, cellular, and subcellular localization of RGS10 in rodent brain. <i>Journal of Comparative Neurology</i> , 2005, 481, 299-313.	0.9	24
94	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
95	Mood-stabilizing Drugs: Are Their Neuroprotective Aspects Clinically Relevant?. <i>Psychiatric Clinics of North America</i> , 2005, 28, 399-414.	0.7	10
96	Mouse Models of Alzheimer's Disease: Insight into Treatment. <i>Reviews in the Neurosciences</i> , 2004, 15, 353-370.	1.4	101
97	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
98	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
99	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
100	Drug Dependence and Addiction, II: Adult Neurogenesis and Drug Abuse. <i>American Journal of Psychiatry</i> , 2004, 161, 426-426.	4.0	47
101	Brain-derived neurotrophic factor in the ventral midbrain nucleus accumbens pathway: a role in depression. <i>Biological Psychiatry</i> , 2003, 54, 994-1005.	0.7	375
102	Involvement of the Lateral Hypothalamic Peptide Orexin in Morphine Dependence and Withdrawal. <i>Journal of Neuroscience</i> , 2003, 23, 3106-3111.	1.7	335
103	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
104	Adult neurogenesis: implications for psychiatry. <i>Progress in Brain Research</i> , 2002, 138, 315-342.	0.9	90
105	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
106	Neurobiology of Depression. <i>Neuron</i> , 2002, 34, 13-25.	3.8	2,688
107	To be or not to be: adult neurogenesis and psychiatry. <i>Clinical Neuroscience Research</i> , 2002, 2, 93-108.	0.8	18
108	Regulation of GFR $\beta$ -1 and GFR $\beta$ -2 mRNAs in rat brain by electroconvulsive seizure. <i>Synapse</i> , 2001, 39, 42-50.	0.6	43

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109	Dopamine receptor regulating factor, DRRF: A zinc finger transcription factor. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7558-7563.	3.3	59
110	Chronic Antidepressant Treatment Increases Neurogenesis in Adult Rat Hippocampus. Journal of Neuroscience, 2000, 20, 9104-9110.	1.7	2,822
111	Cloning and localization of the hyperpolarization-activated cyclic nucleotide-gated channel family in rat brain. Molecular Brain Research, 2000, 81, 129-139.	2.5	201
112	Role for GDNF in Biochemical and Behavioral Adaptations to Drugs of Abuse. Neuron, 2000, 26, 247-257.	3.8	143
113	Opiates inhibit neurogenesis in the adult rat hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7579-7584.	3.3	555
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	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. Synapse, 1998, 30, 329-333.	0.6	106
116	Methamphetamine neurotoxicity: Dissociation of striatal dopamine terminal damage from parietal cortical cell body injury. Synapse, 1998, 30, 433-445.	0.6	111
117	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. , 1998, 30, 329.		2
118	Characterizing cortical neuron injury with fluoro-jade labeling after a neurotoxic regimen of methamphetamine. , 1998, 30, 329.		1
119	Striatal and cortical NMDA receptors are altered by a neurotoxic regimen of methamphetamine. Synapse, 1996, 22, 217-225.	0.6	70
120	Striatal subregions are differentially vulnerable to the neurotoxic effects of methamphetamine. Brain Research, 1992, 598, 321-326.	1.1	110