Diane C Lagace

List of Publications by Year
in descending order

60 papers	6,136 citations	126858 33 h-index	133188 59 g-index
61 all docs	61 docs citations	61 times ranked	9848 citing authors

#	Article	IF	Citations
1	Molecular Adaptations Underlying Susceptibility and Resistance to Social Defeat in Brain Reward Regions. Cell, 2007, 131, 391-404.	13.5	1,927
2	Mitochondrial Dynamics Impacts Stem Cell Identity and Fate Decisions by Regulating a Nuclear Transcriptional Program. Cell Stem Cell, 2016, 19, 232-247.	5.2	469
3	Dynamic Contribution of Nestin-Expressing Stem Cells to Adult Neurogenesis. Journal of Neuroscience, 2007, 27, 12623-12629.	1.7	443
4	Neurod1 is essential for the survival and maturation of adult-born neurons. Nature Neuroscience, 2009, 12, 1090-1092.	7.1	394
5	Adult hippocampal neurogenesis is functionally important for stress-induced social avoidance. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4436-4441.	3.3	289
6	The neurogenesis hypothesis of affective and anxiety disorders: Are we mistaking the scaffolding for the building?. Neuropharmacology, 2012, 62, 21-34.	2.0	209
7	Gender and endogenous levels of estradiol do not influence adult hippocampal neurogenesis in mice. Hippocampus, 2007, 17, 175-180.	0.9	125
8	Mitochondrial dysfunction underlies cognitive defects as a result of neural stem cell depletion and impaired neurogenesis. Human Molecular Genetics, 2017, 26, 3327-3341.	1.4	124
9	Autophagy supports genomic stability by degrading retrotransposon RNA. Nature Communications, 2014, 5, 5276.	5.8	120
10	Focal cerebral ischemia induces a multilineage cytogenic response from adult subventricular zone that is predominantly gliogenic. Glia, 2010, 58, 1610-1619.	2.5	118
11	Cdk5 is essential for adult hippocampal neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18567-18571.	3.3	104
12	In vivo contribution of nestinâ€•and GLASTâ€‹lineage cells to adult hippocampal neurogenesis. Hippocampus, 2013, 23, 708-719.	0.9	101
13	Making a neuron: Cdk5 in embryonic and adult neurogenesis. Trends in Neurosciences, 2009, 32, 575-582.	4.2	89
14	Inhibition of Histone Deacetylase Activity by Valproic Acid Blocks Adipogenesis. Journal of Biological Chemistry, 2004, 279, 18851-18860.	1.6	88
15	Conditional Disruption of Calpain in the CNS Alters Dendrite Morphology, Impairs LTP, and Promotes Neuronal Survival following Injury. Journal of Neuroscience, 2013, 33, 5773-5784.	1.7	87
16	Chronic Stress Induces Anxiety via an Amygdalar Intracellular Cascade that Impairs Endocannabinoid Signaling. Neuron, 2015, 85, 1319-1331.	3.8	81
17	Juvenile Administration of Methylphenidate Attenuates Adult Hippocampal Neurogenesis. Biological Psychiatry, 2006, 60, 1121-1130.	0.7	80
18	Cell-Autonomous Inactivation of the Reelin Pathway Impairs Adult Neurogenesis in the Hippocampus. Journal of Neuroscience, 2012, 32, 12051-12065.	1.7	78

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19	CDK5 phosphorylates DRP1 and drives mitochondrial defects in NMDA-induced neuronal death. Human Molecular Genetics, 2015, 24, 4573-4583.	1.4	76
20	Progressive dopaminergic cell loss with unilateral-to-bilateral progression in a genetic model of Parkinson disease. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15918-15923.	3.3	72
21	Visualization and genetic manipulation of adult neurogenesis using transgenic mice. European Journal of Neuroscience, 2011, 33, 1025-1036.	1.2	68
22	Opposing Regulation of Sox2 by Cell-Cycle Effectors E2f3a and E2f3b in Neural Stem Cells. Cell Stem Cell, 2013, 12, 440-452.	5.2	68
23	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
24	Fate Mapping and Lineage Analyses Demonstrate the Production of a Large Number of Striatal Neuroblasts After Transforming Growth Factor Î± and Noggin Striatal Infusions into the Dopamine-Depleted Striatum. Stem Cells, 2008, 26, 2349-2360.	1.4	61
25	A longitudinal study of stressâ€induced hippocampal volume changes in mice that are susceptible or resilient to chronic social defeat. Hippocampus, 2014, 24, 1120-1128.	0.9	58
26	Calcium-Sensitive Adenylyl Cyclases in Depression and Anxiety: Behavioral and Biochemical Consequences of Isoform Targeting. Biological Psychiatry, 2008, 64, 336-343.	0.7	55
27	Stress-Induced Anxiety- and Depressive-Like Phenotype Associated with Transient Reduction in Neurogenesis in Adult Nestin-CreERT2/Diphtheria Toxin Fragment A Transgenic Mice. PLoS ONE, 2016, 11, e0147256.	1.1	46
28	An antibody for analysis of autophagy induction. Nature Methods, 2020, 17, 232-239.	9.0	44
29	Valproic acid: how it works. Or not. Clinical Neuroscience Research, 2004, 4, 215-225.	0.8	42
30	Holocranohistochemistry enables the visualization of Î±-synuclein expression in the murine olfactory system and discovery of its systemic anti-microbial effects. Journal of Neural Transmission, 2017, 124, 721-738.	1.4	42
31	Pannexin 1 Differentially Affects Neural Precursor Cell Maintenance in the Ventricular Zone and Peri-Infarct Cortex. Journal of Neuroscience, 2016, 36, 1203-1210.	1.7	40
32	No evidence of attentional deficits in stabilized bipolar youth relative to unipolar and control comparators. Bipolar Disorders, 2003, 5, 330-339.	1.1	38
33	LIM Domain Only 4 (LMO4) Regulates Calcium-Induced Calcium Release and Synaptic Plasticity in the Hippocampus. Journal of Neuroscience, 2012, 32, 4271-4283.	1.7	38
34	Loss of IRF2BP2 in Microglia Increases Inflammation and Functional Deficits after Focal Ischemic Brain Injury. Frontiers in Cellular Neuroscience, 2017, 11, 201.	1.8	38
35	Does the endogenous neurogenic response alter behavioral recovery following stroke?. Behavioural Brain Research, 2012, 227, 426-432.	1.2	30
36	Mathematics Deficits in Adolescents With Bipolar I Disorder. American Journal of Psychiatry, 2003, 160, 100-104.	4.0	27

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37	Sex differences in depression-like behavior and neuroinflammation in rats post-MI: role of estrogens. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1159-H1173.	1.5	25
38	Inhibition of inflammation by minocycline improves heart failure and depression-like behaviour in rats after myocardial infarction. PLoS ONE, 2019, 14, e0217437.	1.1	25
39	Developmental and Adult GAP-43 Deficiency in Mice Dynamically Alters Hippocampal Neurogenesis and Mossy Fiber Volume. Developmental Neuroscience, 2014, 36, 44-63.	1.0	24
40	The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. Stem Cell Reports, 2017, 9, 1735-1744.	2.3	24
41	Sex-dependent adaptive changes in serotonin-1A autoreceptor function and anxiety in Deaf1-deficient mice. Molecular Brain, 2016, 9, 77.	1.3	22
42	RB regulates the production and the survival of newborn neurons in the embryonic and adult dentate gyrus. Hippocampus, 2016, 26, 1379-1392.	0.9	18
43	Short- and Long-term Exposure to Low and High Dose Running Produce Differential Effects on Hippocampal Neurogenesis. Neuroscience, 2018, 369, 202-211.	1.1	16
44	Excitable Adult-Generated GABAergic Neurons Acquire Functional Innervation in the Cortex after Stroke. Stem Cell Reports, 2018, 11, 1327-1336.	2.3	15
45	Valproic acid fails to induce polycystic ovary syndrome in female rats. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2003, 27, 587-594.	2.5	13
46	Absence of neurogenic response following robust predator-induced stress response. Neuroscience, 2016, 339, 276-286.	1.1	13
47	Autophagy and Adult Neurogenesis: Discoveries Made Half a Century Ago Yet in their Infancy of being Connected. Brain Plasticity, 2017, 3, 99-110.	1.9	13
48	Metformin promotes CNS remyelination and improves social interaction following focal demyelination through CBP Ser436 phosphorylation. Experimental Neurology, 2020, 334, 113454.	2.0	13
49	Doublecortin (DCX) is not Essential for Survival and Differentiation of Newborn Neurons in the Adult Mouse Dentate Gyrus. Frontiers in Neuroscience, 2015, 9, 494.	1.4	12
50	The aPKC-CBP Pathway Regulates Adult Hippocampal Neurogenesis in an Age-Dependent Manner. Stem Cell Reports, 2016, 7, 719-734.	2.3	12
51	Role of Myocardial Infarction-Induced Neuroinflammation for Depression-Like Behavior and Heart Failure in Ovariectomized Female Rats. Neuroscience, 2019, 415, 201-214.	1.1	12
52	Mood-stabilizing Drugs: Are Their Neuroprotective Aspects Clinically Relevant?. Psychiatric Clinics of North America, 2005, 28, 399-414.	0.7	10
53	Bclâ€2 is required for the survival of doublecortinâ€expressing immature neurons. Hippocampus, 2016, 26, 211-219.	0.9	8
54	Single-Cell and Single-Nucleus RNAseq Analysis of Adult Neurogenesis. Cells, 2022, 11, 1633.	1.8	8

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55	Adult hippocampal neurogenesis occurs in the absence of Presenilin 1 and Presenilin 2. Scientific Reports, 2018, 8, 17931.	1.6	7
56	Hippocampal Neurogenesis: A Matter of Survival. American Journal of Psychiatry, 2007, 164, 205-205.	4.0	5
57	The Emergence of Stereotyped Kinematic Synergies when Mice Reach to Grasp Following Stroke. Neurorehabilitation and Neural Repair, 2021, , 154596832110581.	1.4	4
58	Developmental and interventional plasticity of motor maps after perinatal stroke. Journal of Neuroscience, 2021, , JN-RM-3185-20.	1.7	3
59	The Multi-pronged Regulation of Adult Neurogenesis by Forkhead Box O Family Members. Neuron, 2018, 99, 1099-1101.	3.8	2
60	Isolation of the side population from neurogenic niches enriches for endothelial cells. PLoS ONE, 2022, 17, e0250752.	1.1	0