

Jennifer L Bizon

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

4,290
citations

94433

37
h-index

128289

60
g-index

102
all docs

102
docs citations

102
times ranked

4491
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of new cells in the rat dentate gyrus over the lifespan: relation to cognitive decline. <i>European Journal of Neuroscience</i> , 2003, 18, 215-219.	2.6	186
2	Neurogenesis in a rat model of age-related cognitive decline. <i>Aging Cell</i> , 2004, 3, 227-234.	6.7	160
3	Molecular aspects of age-related cognitive decline: the role of GABA signaling. <i>Trends in Molecular Medicine</i> , 2015, 21, 450-460.	6.7	148
4	Balancing Risk and Reward: A Rat Model of Risky Decision Making. <i>Neuropsychopharmacology</i> , 2009, 34, 2208-2217.	5.4	143
5	Dopaminergic Modulation of Risky Decision-Making. <i>Journal of Neuroscience</i> , 2011, 31, 17460-17470.	3.6	135
6	Characterizing cognitive aging of working memory and executive function in animal models. <i>Frontiers in Aging Neuroscience</i> , 2012, 4, 19.	3.4	134
7	Spatial reference and working memory across the lifespan of male Fischer 344 rats. <i>Neurobiology of Aging</i> , 2009, 30, 646-655.	3.1	130
8	Sex differences in a rat model of risky decision making.. <i>Behavioral Neuroscience</i> , 2016, 130, 50-61.	1.2	122
9	Prefrontal Cortical GABAergic Dysfunction Contributes to Age-Related Working Memory Impairment. <i>Journal of Neuroscience</i> , 2014, 34, 3457-3466.	3.6	120
10	Accelerating drug discovery for Alzheimer's disease: best practices for preclinical animal studies. <i>Alzheimer's Research and Therapy</i> , 2011, 3, 28.	6.2	116
11	Dissociable Roles for the Basolateral Amygdala and Orbitofrontal Cortex in Decision-Making under Risk of Punishment. <i>Journal of Neuroscience</i> , 2015, 35, 1368-1379.	3.6	99
12	Characterizing cognitive aging in humans with links to animal models. <i>Frontiers in Aging Neuroscience</i> , 2012, 4, 21.	3.4	96
13	Adolescent Risk Taking, Cocaine Self-Administration, and Striatal Dopamine Signaling. <i>Neuropsychopharmacology</i> , 2014, 39, 955-962.	5.4	96
14	Effects of aging on the hippocampal formation in a naturally occurring animal model of mild cognitive impairment. <i>Experimental Gerontology</i> , 2003, 38, 71-77.	2.8	95
15	Hypothalamic-pituitary-adrenal axis function and corticosterone receptor expression in behaviourally characterized young and aged Long-Evans rats. <i>European Journal of Neuroscience</i> , 2001, 14, 1739-1751.	2.6	94
16	Characterizing cognitive aging of spatial and contextual memory in animal models. <i>Frontiers in Aging Neuroscience</i> , 2012, 4, 12.	3.4	93
17	Good things come to those who wait: Attenuated discounting of delayed rewards in aged Fischer 344 rats. <i>Neurobiology of Aging</i> , 2010, 31, 853-862.	3.1	83
18	In vitro autoradiography of ionotropic glutamate receptors in hippocampus and striatum of aged Long-Evans rats: relationship to spatial learning. <i>Neuroscience</i> , 1996, 74, 741-756.	2.3	81

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19	Prefrontal corticalâ€”striatal dopamine receptor mRNA expression predicts distinct forms of impulsivity. <i>European Journal of Neuroscience</i> , 2013, 37, 1779-1788.	2.6	81
20	A Ketogenic Diet Improves Cognition and Has Biochemical Effects in Prefrontal Cortex That Are Dissociable From Hippocampus. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 391.	3.4	79
21	Shared Functions of Perirhinal and Parahippocampal Cortices: Implications for Cognitive Aging. <i>Trends in Neurosciences</i> , 2018, 41, 349-359.	8.6	65
22	Deficits across multiple cognitive domains in a subset of aged Fischer 344 rats. <i>Neurobiology of Aging</i> , 2007, 28, 928-936.	3.1	64
23	Interaction of basal forebrain cholinergic neurons with the glucocorticoid system in stress regulation and cognitive impairment. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 43.	3.4	62
24	NR2A-Containing NMDARs in the Prefrontal Cortex Are Required for Working Memory and Associated with Age-Related Cognitive Decline. <i>Journal of Neuroscience</i> , 2016, 36, 12537-12548.	3.6	62
25	Distinct manifestations of executive dysfunction in aged rats. <i>Neurobiology of Aging</i> , 2013, 34, 2164-2174.	3.1	59
26	Chronic, low-dose prenatal exposure to methylmercury impairs motor and mnemonic function in adult C57/B6 mice. <i>Behavioural Brain Research</i> , 2008, 191, 55-61.	2.2	56
27	Centrally administered angiotensinâ€”(1â€”7) increases the survival of strokeâ€”prone spontaneously hypertensive rats. <i>Experimental Physiology</i> , 2014, 99, 442-453.	2.0	56
28	Long-term effects of prior cocaine exposure on Morris water maze performance. <i>Neurobiology of Learning and Memory</i> , 2008, 89, 185-191.	1.9	55
29	Affective and cognitive mechanisms of risky decision making. <i>Neurobiology of Learning and Memory</i> , 2015, 117, 60-70.	1.9	52
30	Contributions of medial prefrontal cortex to decision making involving risk of punishment. <i>Neuropharmacology</i> , 2018, 139, 205-216.	4.1	52
31	Brain-derived neurotrophic factor promotes adaptive plasticity within the spinal cord and mediates the beneficial effects of controllable stimulation. <i>Neuroscience</i> , 2012, 200, 74-90.	2.3	51
32	Prefrontal cortical GABAergic signaling and impaired behavioral flexibility in aged F344 rats. <i>Neuroscience</i> , 2017, 345, 274-286.	2.3	51
33	Optogenetic Inhibition Reveals Distinct Roles for Basolateral Amygdala Activity at Discrete Time Points during Risky Decision Making. <i>Journal of Neuroscience</i> , 2017, 37, 11537-11548.	3.6	51
34	Effects of acute administration of nicotinic and muscarinic cholinergic agonists and antagonists on performance in different costâ€”benefit decision making tasks in rats. <i>Psychopharmacology</i> , 2012, 224, 489-499.	3.1	46
35	Rodent ageâ€”related impairments in discriminating perceptually similar objects parallel those observed in humans. <i>Hippocampus</i> , 2017, 27, 759-776.	1.9	45
36	Medial prefrontal-perirhinal cortical communication is necessary for flexible response selection. <i>Neurobiology of Learning and Memory</i> , 2017, 137, 36-47.	1.9	44

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37	Subpopulations of striatal interneurons can be distinguished on the basis of neurotrophic factor expression. <i>Journal of Comparative Neurology</i> , 1999, 408, 283-298.	1.6	43
38	Age-Related Declines in Prefrontal Cortical Expression of Metabotropic Glutamate Receptors that Support Working Memory. <i>ENeuro</i> , 2018, 5, ENEURO.0164-18.2018.	1.9	43
39	NGF mRNA is expressed by GABAergic but not cholinergic neurons in rat basal forebrain. <i>Journal of Comparative Neurology</i> , 1995, 360, 454-462.	1.6	42
40	Emergence of a Cue Strategy Preference on the Water Maze Task in Aged C57B6 x SJL F1 Hybrid Mice. <i>Learning and Memory</i> , 2003, 10, 520-524.	1.3	41
41	Blockade of GABA(B) receptors completely reverses age-related learning impairment. <i>Neuroscience</i> , 2009, 164, 941-947.	2.3	40
42	The Antiepileptic Ketogenic Diet Alters Hippocampal Transporter Levels and Reduces Adiposity in Aged Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 450-458.	3.6	40
43	Learning strategy selection in the water maze and hippocampal CREB phosphorylation differ in two inbred strains of mice. <i>Learning and Memory</i> , 2008, 15, 183-188.	1.3	38
44	Age-related changes in rostral basal forebrain cholinergic and GABAergic projection neurons: relationship with spatial impairment. <i>Neurobiology of Aging</i> , 2013, 34, 845-862.	3.1	37
45	Long-lasting sensitization of reward-directed behavior by amphetamine. <i>Behavioural Brain Research</i> , 2009, 201, 74-79.	2.2	36
46	GABAB receptor GTP-binding is decreased in the prefrontal cortex but not the hippocampus of aged rats. <i>Neurobiology of Aging</i> , 2012, 33, 1124.e1-1124.e12.	3.1	36
47	Decreased glucocorticoid receptor mRNA and dysfunction of HPA axis in rats after removal of the cholinergic innervation to hippocampus.. <i>European Journal of Neuroscience</i> , 2002, 16, 1399-1404.	2.6	32
48	Effects of hippocampal cholinergic deafferentation on learning strategy selection in a visible platform version of the water maze. <i>Hippocampus</i> , 2003, 13, 676-684.	1.9	31
49	Enhanced Calcium Buffering in F344 Rat Cholinergic Basal Forebrain Neurons Is Associated With Age-Related Cognitive Impairment. <i>Journal of Neurophysiology</i> , 2009, 102, 2194-2207.	1.8	29
50	Novel age-dependent learning deficits in a mouse model of Alzheimer's disease: Implications for translational research. <i>Neurobiology of Aging</i> , 2011, 32, 1273-1285.	3.1	29
51	Decline of prefrontal cortical-mediated executive functions but attenuated delay discounting in aged Fischer 344— brown Norway hybrid rats. <i>Neurobiology of Aging</i> , 2017, 60, 141-152.	3.1	29
52	More Is Less: Neurogenesis and Age-Related Cognitive Decline in Long-Evans Rats. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2005, 2005, re2-re2.	0.8	28
53	Intact spatial learning in adult Tg2576 mice. <i>Neurobiology of Aging</i> , 2007, 28, 440-446.	3.1	26
54	Effects of nucleus accumbens amphetamine administration on performance in a delay discounting task. <i>Behavioural Brain Research</i> , 2017, 321, 130-136.	2.2	26

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55	Regulation of risky decision making by gonadal hormones in males and females. <i>Neuropsychopharmacology</i> , 2021, 46, 603-613.	5.4	26
56	Testicular hormones mediate robust sex differences in impulsive choice in rats. <i>ELife</i> , 2020, 9, .	6.0	22
57	$\alpha 4\beta 2$ and $\alpha 7$ nicotinic acetylcholine receptor binding predicts choice preference in two cost benefit decision-making tasks. <i>Neuroscience</i> , 2013, 230, 121-131.	2.3	21
58	Enhancing effects of acute exposure to cannabis smoke on working memory performance. <i>Neurobiology of Learning and Memory</i> , 2019, 157, 151-162.	1.9	21
59	Acidic fibroblast growth factor mRNA is expressed by basal forebrain and striatal cholinergic neurons. , 1996, 366, 379-389.		20
60	Risk, Reward, and Decision-Making in a Rodent Model of Cognitive Aging. <i>Frontiers in Neuroscience</i> , 2011, 5, 144.	2.8	20
61	Interaction between age and perceptual similarity in olfactory discrimination learning in F344 rats: relationships with spatial learning. <i>Neurobiology of Aging</i> , 2017, 53, 122-137.	3.1	20
62	Transcriptional mechanisms of hippocampal aging. <i>Experimental Gerontology</i> , 2004, 39, 1613-1622.	2.8	19
63	Discrimination performance in aging is vulnerable to interference and dissociable from spatial memory. <i>Learning and Memory</i> , 2016, 23, 339-348.	1.3	19
64	Deconstructing value-based decision making via temporally selective manipulation of neural activity: Insights from rodent models. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2019, 19, 459-476.	2.0	19
65	Distinct relationships between risky decision making and cocaine self-administration under short- and long-access conditions. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 98, 109791.	4.8	19
66	Monoaminergic modulation of decision-making under risk of punishment in a rat model. <i>Behavioural Pharmacology</i> , 2018, 29, 745-761.	1.7	18
67	Effects of repeated adolescent exposure to cannabis smoke on cognitive outcomes in adulthood. <i>Journal of Psychopharmacology</i> , 2021, 35, 848-863.	4.0	18
68	Optogenetic dissection of basolateral amygdala contributions to intertemporal choice in young and aged rats. <i>ELife</i> , 2019, 8, .	6.0	18
69	Characterization of age-related changes in synaptic transmission onto F344 rat basal forebrain cholinergic neurons using a reduced synaptic preparation. <i>Journal of Neurophysiology</i> , 2014, 111, 273-286.	1.8	17
70	Effects of acute administration of the GABA(B) receptor agonist baclofen on behavioral flexibility in rats. <i>Psychopharmacology</i> , 2016, 233, 2787-2797.	3.1	17
71	Age-related changes in tonic activation of presynaptic versus extrasynaptic β -amino butyric acid type B receptors in rat medial prefrontal cortex. <i>Neurobiology of Aging</i> , 2016, 45, 88-97.	3.1	17
72	Altered spatial learning and delay discounting in a rat model of human third trimester binge ethanol exposure. <i>Behavioural Pharmacology</i> , 2012, 23, 54-65.	1.7	16

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73	Challenges and opportunities for characterizing cognitive aging across species. <i>Frontiers in Aging Neuroscience</i> , 2012, 4, 6.	3.4	16
74	Characterizing Olfactory Perceptual Similarity Using Carbon Chain Discrimination in Fischer 344 Rats. <i>Chemical Senses</i> , 2014, 39, 323-331.	2.0	16
75	Age and Ketogenic Diet Have Dissociable Effects on Synapse-Related Gene Expression Between Hippocampal Subregions. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 239.	3.4	15
76	Attenuated NMDAR signaling on fast-spiking interneurons in prefrontal cortex contributes to age-related decline of cognitive flexibility. <i>Neuropharmacology</i> , 2021, 197, 108720.	4.1	12
77	Acute vagus nerve stimulation enhances reversal learning in rats. <i>Neurobiology of Learning and Memory</i> , 2021, 184, 107498.	1.9	11
78	Increased interactions between PKA and NF- κ B signaling in the hippocampus following loss of cholinergic input. <i>Neuroscience</i> , 2011, 192, 485-493.	2.3	10
79	Decreased interactions in protein kinase A κ Glucocorticoid receptor signaling in the hippocampus after selective removal of the basal forebrain cholinergic input. <i>Hippocampus</i> , 2012, 22, 455-465.	1.9	9
80	The perirhinal cortex supports spatial intertemporal choice stability. <i>Neurobiology of Learning and Memory</i> , 2019, 162, 36-46.	1.9	9
81	Rodent mnemonic similarity task performance requires the prefrontal cortex. <i>Hippocampus</i> , 2021, 31, 701-716.	1.9	9
82	Deficits in hippocampal κ dependent transfer generalization learning accompany synaptic dysfunction in a mouse model of amyloidosis. <i>Hippocampus</i> , 2016, 26, 455-471.	1.9	8
83	Experience-Dependent Effects of Muscimol-Induced Hippocampal Excitation on Mnemonic Discrimination. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 72.	2.5	8
84	Reuniting the Body κ Neck Up and Neck Down κ to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, , .	3.6	5
85	Age-related impairments on the touchscreen paired associates learning (PAL) task in male rats. <i>Neurobiology of Aging</i> , 2022, 109, 176-191.	3.1	5
86	A Neuroscience Primer for Integrating Geroscience With the Neurobiology of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, e19-e33.	3.6	5
87	Characterizing Olfactory Binary Mixture Interactions in Fischer 344 Rats Using Behavioral Reaction Times. <i>Chemical Senses</i> , 2015, 40, 325-334.	2.0	4
88	Stress-induced corticosterone secretion covaries with working memory in aging. <i>Neurobiology of Aging</i> , 2018, 71, 156-160.	3.1	4
89	Bridging the gap: A geroscience primer for neuroscientists with potential collaborative applications. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, , .	3.6	3
90	Rat Models of Age-Related Cognitive Decline. , 2006, , 379-391.		2

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91	Modeling Costâ€“Benefit Decision Making in Aged Rodents. , 2015, , 17-40.		1
92	Rat Models of Cognitive Aging. , 2018, , 211-230.		1
93	GABAB receptors in prelimbic cortex and basolateral amygdala differentially influence intertemporal decision making and decline with age. <i>Neuropharmacology</i> , 2022, 209, 109001.	4.1	1
94	Adolescent Cannabinoid Use and Cognition; Unexpected Results from a Rat Model of Cannabinoid Self-Administration. <i>Neuropsychopharmacology</i> , 2017, 42, 983-984.	5.4	0