

Karyn M Frick

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

6,232
citations

53660

45
h-index

69108

77
g-index

90
all docs

90
docs citations

90
times ranked

4863
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-related spatial reference and working memory deficits assessed in the water maze. <i>Neurobiology of Aging</i> , 1995, 16, 149-160.	1.5	285
2	Enrichment enhances spatial memory and increases synaptophysin levels in aged female mice. <i>Neurobiology of Aging</i> , 2003, 24, 615-626.	1.5	254
3	Estradiol-Induced Enhancement of Object Memory Consolidation Involves Hippocampal Extracellular Signal-Regulated Kinase Activation and Membrane-Bound Estrogen Receptors. <i>Journal of Neuroscience</i> , 2008, 28, 8660-8667.	1.7	244
4	Epigenetic alterations regulate estradiol-induced enhancement of memory consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5605-5610.	3.3	186
5	Estrogens and age-related memory decline in rodents: What have we learned and where do we go from here?. <i>Hormones and Behavior</i> , 2009, 55, 2-23.	1.0	180
6	Sex Differences in the Behavioral Response to Spatial and Object Novelty in Adult C57BL/6 Mice.. <i>Behavioral Neuroscience</i> , 2003, 117, 1283-1291.	0.6	173
7	Sex differences in the brain: Implications for behavioral and biomedical research. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 85, 126-145.	2.9	170
8	The Memory-Enhancing Effects of Hippocampal Estrogen Receptor Activation Involve Metabotropic Glutamate Receptor Signaling. <i>Journal of Neuroscience</i> , 2013, 33, 15184-15194.	1.7	166
9	Long-term continuous, but not daily, environmental enrichment reduces spatial memory decline in aged male mice. <i>Neurobiology of Learning and Memory</i> , 2006, 85, 139-152.	1.0	157
10	Different types of environmental enrichment have discrepant effects on spatial memory and synaptophysin levels in female mice. <i>Neurobiology of Learning and Memory</i> , 2005, 83, 206-216.	1.0	155
11	Sex steroid hormones matter for learning and memory: estrogenic regulation of hippocampal function in male and female rodents. <i>Learning and Memory</i> , 2015, 22, 472-493.	0.5	152
12	Effects of Environmental Enrichment on Spatial Memory and Neurochemistry in Middle-Aged Mice. <i>Learning and Memory</i> , 2003, 10, 187-198.	0.5	143
13	Molecular mechanisms underlying the memory-enhancing effects of estradiol. <i>Hormones and Behavior</i> , 2015, 74, 4-18.	1.0	138
14	Estradiol-Induced Object Memory Consolidation in Middle-Aged Female Mice Requires Dorsal Hippocampal Extracellular Signal-Regulated Kinase and Phosphatidylinositol 3-Kinase Activation. <i>Journal of Neuroscience</i> , 2010, 30, 4390-4400.	1.7	131
15	Sex differences in hippocampal function. <i>Journal of Neuroscience Research</i> , 2017, 95, 539-562.	1.3	131
16	D-cycloserine, a novel cognitive enhancer, improves spatial memory in aged rats. <i>Neurobiology of Aging</i> , 1994, 15, 207-213.	1.5	124
17	Estradiol-induced object recognition memory consolidation is dependent on activation of mTOR signaling in the dorsal hippocampus. <i>Learning and Memory</i> , 2013, 20, 147-155.	0.5	124
18	Post-training estrogen enhances spatial and object memory consolidation in female mice. <i>Pharmacology Biochemistry and Behavior</i> , 2006, 84, 112-119.	1.3	123

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19	Why estrogens matter for behavior and brain health. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 76, 363-379.	2.9	123
20	Estradiol-Mediated Spine Changes in the Dorsal Hippocampus and Medial Prefrontal Cortex of Ovariectomized Female Mice Depend on ERK and mTOR Activation in the Dorsal Hippocampus. <i>Journal of Neuroscience</i> , 2016, 36, 1483-1489.	1.7	119
21	Oestradiol as a neuromodulator of learning and memory. <i>Nature Reviews Neuroscience</i> , 2020, 21, 535-550.	4.9	112
22	Regulation of object recognition and object placement by ovarian sex steroid hormones. <i>Behavioural Brain Research</i> , 2015, 285, 140-157.	1.2	108
23	17 β -Estradiol and Agonism of G-protein-Coupled Estrogen Receptor Enhance Hippocampal Memory via Different Cell-Signaling Mechanisms. <i>Journal of Neuroscience</i> , 2016, 36, 3309-3321.	1.7	105
24	Hippocampal Histone Acetylation Regulates Object Recognition and the Estradiol-Induced Enhancement of Object Recognition. <i>Journal of Neuroscience</i> , 2012, 32, 2344-2351.	1.7	104
25	Inhibition of local estrogen synthesis in the hippocampus impairs hippocampal memory consolidation in ovariectomized female mice. <i>Hormones and Behavior</i> , 2016, 83, 60-67.	1.0	103
26	Canonical Wnt Signaling is Necessary for Object Recognition Memory Consolidation. <i>Journal of Neuroscience</i> , 2013, 33, 12619-12626.	1.7	99
27	Estradiol-induced enhancement of object memory consolidation involves NMDA receptors and protein kinase A in the dorsal hippocampus of female C57BL/6 mice. <i>Behavioral Neuroscience</i> , 2008, 122, 716-721.	0.6	97
28	Men and Women Differ in Object Memory but Not Performance of a Virtual Radial Maze. <i>Behavioral Neuroscience</i> , 2005, 119, 853-862.	0.6	96
29	Age-dependent effects of environmental enrichment on spatial reference memory in male mice. <i>Behavioural Brain Research</i> , 2007, 185, 43-48.	1.2	96
30	Prenatal stress induces spatial memory deficits and epigenetic changes in the hippocampus indicative of heterochromatin formation and reduced gene expression. <i>Behavioural Brain Research</i> , 2015, 281, 1-8.	1.2	85
31	Chronic Oral Estrogen Affects Memory and Neurochemistry in Middle-Aged Female Mice. <i>Behavioral Neuroscience</i> , 2004, 118, 1340-1351.	0.6	81
32	Effects of estrogen and progesterone on spatial memory consolidation in aged females. <i>Neurobiology of Aging</i> , 2007, 28, 602-610.	1.5	81
33	Behavioral training interferes with the ability of gonadal hormones to increase CA1 spine synapse density in ovariectomized female rats. <i>European Journal of Neuroscience</i> , 2004, 19, 3026-3032.	1.2	76
34	Male mice exhibit better spatial working and reference memory than females in a water-escape radial arm maze task. <i>Brain Research</i> , 2003, 982, 98-107.	1.1	71
35	Low CA1 Spine Synapse Density is Further Reduced by Castration in Male Non-human Primates. <i>Cerebral Cortex</i> , 2004, 14, 503-510.	1.6	69
36	Life-long environmental enrichment differentially affects the mnemonic response to estrogen in young, middle-aged, and aged female mice. <i>Neurobiology of Learning and Memory</i> , 2007, 88, 393-408.	1.0	67

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37	17 β -Estradiol regulates histone alterations associated with memory consolidation and increases <i>Bdnf</i> promoter acetylation in middle-aged female mice. <i>Learning and Memory</i> , 2014, 21, 457-467.	0.5	62
38	Chemogenetic inactivation of the dorsal hippocampus and medial prefrontal cortex, individually and concurrently, impairs object recognition and spatial memory consolidation in female mice. <i>Neurobiology of Learning and Memory</i> , 2018, 156, 103-116.	1.0	61
39	Effects of complete immunotoxin lesions of the cholinergic basal forebrain on fear conditioning and spatial learning. <i>Hippocampus</i> , 2004, 14, 244-254.	0.9	59
40	Hippocampal Wnt Signaling. <i>Neuroscientist</i> , 2016, 22, 278-294.	2.6	59
41	Acetylcholine release in the hippocampus: Effects of cholinergic and GABAergic compounds in the medial septal area. <i>Neuroscience Letters</i> , 1994, 166, 199-202.	1.0	58
42	Building a better hormone therapy? How understanding the rapid effects of sex steroid hormones could lead to new therapeutics for age-related memory decline.. <i>Behavioral Neuroscience</i> , 2012, 126, 29-53.	0.6	57
43	Epigenetic regulation of estrogen-dependent memory. <i>Frontiers in Neuroendocrinology</i> , 2014, 35, 530-549.	2.5	56
44	Effects of continuous and intermittent estrogen treatments on memory in aging female mice. <i>Brain Research</i> , 2006, 1115, 135-147.	1.1	55
45	Estradiol and hippocampal memory in female and male rodents. <i>Current Opinion in Behavioral Sciences</i> , 2018, 23, 65-74.	2.0	49
46	Short-term environmental enrichment decreases the mnemonic response to estrogen in young, but not aged, female mice. <i>Brain Research</i> , 2007, 1160, 91-101.	1.1	48
47	Sex Differences in the Rapid Cell Signaling Mechanisms Underlying the Memory-Enhancing Effects of 17 β -Estradiol. <i>ENeuro</i> , 2018, 5, ENEURO.0267-18.2018.	0.9	47
48	A new approach to understanding the molecular mechanisms through which estrogens affect cognition. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 1045-1055.	1.1	46
49	Estrogenic regulation of memory consolidation: A look beyond the hippocampus, ovaries, and females. <i>Physiology and Behavior</i> , 2018, 187, 57-66.	1.0	46
50	Differential effects of acute progesterone administration on spatial and object memory in middle-aged and aged female C57BL/6 mice. <i>Hormones and Behavior</i> , 2008, 54, 455-462.	1.0	40
51	Single enrichment variables differentially reduce age-related memory decline in female mice.. <i>Behavioral Neuroscience</i> , 2007, 121, 679-688.	0.6	39
52	Use It or Lose It: Environmental Enrichment as a Means to Promote Successful Cognitive Aging. <i>Scientific World Journal</i> , The, 2010, 10, 1129-1141.	0.8	39
53	Post-training progesterone dose-dependently enhances object, but not spatial, memory consolidation. <i>Behavioural Brain Research</i> , 2008, 194, 174-180.	1.2	38
54	The Impact of Age-Related Ovarian Hormone Loss on Cognitive and Neural Function. <i>Current Topics in Behavioral Neurosciences</i> , 2011, 10, 165-184.	0.8	38

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55	Mechanisms underlying the rapid effects of estradiol and progesterone on hippocampal memory consolidation in female rodents. <i>Hormones and Behavior</i> , 2018, 104, 100-110.	1.0	38
56	Epigenetics, Oestradiol and Hippocampal Memory Consolidation. <i>Journal of Neuroendocrinology</i> , 2013, 25, 1151-1162.	1.2	35
57	The effects of acute 17 β -estradiol treatment on gene expression in the young female mouse hippocampus. <i>Neurobiology of Learning and Memory</i> , 2009, 91, 315-322.	1.0	34
58	The progesterone-induced enhancement of object recognition memory consolidation involves activation of the extracellular signal-regulated kinase (ERK) and mammalian target of rapamycin (mTOR) pathways in the dorsal hippocampus. <i>Hormones and Behavior</i> , 2012, 61, 487-495.	1.0	34
59	Distinct effects of estrogen receptor antagonism on object recognition and spatial memory consolidation in ovariectomized mice. <i>Psychoneuroendocrinology</i> , 2017, 85, 110-114.	1.3	33
60	17 β -Estradiol Potentiates the Reinstatement of Cocaine Seeking in Female Rats: Role of the Prelimbic Prefrontal Cortex and Cannabinoid Type-1 Receptors. <i>Neuropsychopharmacology</i> , 2018, 43, 781-790.	2.8	33
61	Dorsal hippocampal progesterone infusions enhance object recognition in young female mice. <i>Pharmacology Biochemistry and Behavior</i> , 2009, 93, 177-182.	1.3	32
62	Infralimbic Estradiol Enhances Neuronal Excitability and Facilitates Extinction of Cocaine Seeking in Female Rats via a BDNF/TrkB Mechanism. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 168.	1.0	32
63	Activation of androgen receptors protects intact male mice from memory impairments caused by aromatase inhibition. <i>Hormones and Behavior</i> , 2019, 111, 96-104.	1.0	32
64	The epigenetics of estrogen. <i>Epigenetics</i> , 2011, 6, 675-680.	1.3	31
65	Dorsal Hippocampal Actin Polymerization Is Necessary for Activation of G-Protein-Coupled Estrogen Receptor (GPER) to Increase CA1 Dendritic Spine Density and Enhance Memory Consolidation. <i>Journal of Neuroscience</i> , 2019, 39, 9598-9610.	1.7	30
66	Oxotremorine infusions into the medial septal area of middle-aged rats affect spatial reference memory and ChAT activity. <i>Behavioural Brain Research</i> , 1996, 80, 99-109.	1.2	29
67	17 β -Estradiol is necessary for extinction of cocaine seeking in female rats. <i>Learning and Memory</i> , 2013, 20, 300-306.	0.5	25
68	The mTOR and canonical Wnt signaling pathways mediate the mnemonic effects of progesterone in the dorsal hippocampus. <i>Hippocampus</i> , 2015, 25, 616-629.	0.9	24
69	On the role of sex steroids in biological functions by classical and non-classical pathways. An update. <i>Frontiers in Neuroendocrinology</i> , 2021, 62, 100926.	2.5	23
70	Chemogenetic Suppression of Medial Prefrontal-Dorsal Hippocampal Interactions Prevents Estrogenic Enhancement of Memory Consolidation in Female Mice. <i>ENeuro</i> , 2019, 6, ENEURO.0451-18.2019.	0.9	19
71	¹⁴ C Estrogens as Potent and Selective Estrogen Receptor-Beta Agonists (SERBAs) to Enhance Memory Consolidation under Low-Estrogen Conditions. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4720-4738.	2.9	16
72	Estradiol effects on spatial memory in women. <i>Behavioural Brain Research</i> , 2022, 417, 113592.	1.2	14

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73	17 β -estradiol activation of dorsal hippocampal TrkB is independent of increased mature BDNF expression and is required for enhanced memory consolidation in female mice. <i>Psychoneuroendocrinology</i> , 2021, 125, 105110.	1.3	13
74	Long-term oral administration of a novel estrogen receptor beta agonist enhances memory and alleviates drug-induced vasodilation in young ovariectomized mice. <i>Hormones and Behavior</i> , 2021, 130, 104948.	1.0	12
75	Effects of linopirdine (DuP 996) and X9121 on age-related memory impairments and on the cholinergic system. <i>Drug Development Research</i> , 1994, 31, 186-196.	1.4	11
76	It takes a neural village: Circuit-based approaches for estrogenic regulation of episodic memory. <i>Frontiers in Neuroendocrinology</i> , 2020, 59, 100860.	2.5	9
77	APOE4 genotype or ovarian hormone loss influence open field exploration in an EFAD mouse model of Alzheimer's disease. <i>Hormones and Behavior</i> , 2022, 140, 105124.	1.0	7
78	APOE4 homozygote females are resistant to the beneficial effects of 17 β -estradiol on memory and CA1 dendritic spine density in the EFAD mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2022, 118, 13-24.	1.5	7
79	Dickkopf-1 blocks 17 β -estradiol-enhanced object memory consolidation in ovariectomized female mice. <i>Hormones and Behavior</i> , 2019, 114, 104545.	1.0	6
80	Chemogenetic inactivation of the nucleus reuniens impairs object placement memory in female mice. <i>Neurobiology of Learning and Memory</i> , 2021, 185, 107521.	1.0	6
81	A Putative Role for Ubiquitin-Proteasome Signaling in Estrogenic Memory Regulation. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 807215.	1.0	6
82	The detrimental effects of APOE4 on risk for Alzheimer's disease may result from altered dendritic spine density, synaptic proteins, and estrogen receptor alpha. <i>Neurobiology of Aging</i> , 2022, 112, 74-86.	1.5	6
83	Development of a Novel, Small-Molecule Brain-Penetrant Histone Deacetylase Inhibitor That Enhances Spatial Memory Formation in Mice. <i>Journal of Medicinal Chemistry</i> , 2022, , .	2.9	4
84	Introduction to the special section on "Hormones and cognition: Perspectives, controversies, and challenges for future research". <i>Behavioral Neuroscience</i> , 2012, 126, 1-3.	0.6	2
85	Pharmacologically Manipulating Learning and Memory. <i>NeuroMethods</i> , 2015, , 165-210.	0.2	2
86	Extracellular matrix metalloproteinase-9 (MMP-9) is required in female mice for 17 β -estradiol enhancement of hippocampal memory consolidation. <i>Psychoneuroendocrinology</i> , 2022, 141, 105773.	1.3	2
87	Introduction to the special issue of <i>Neurobiology of Learning and Memory</i> on memory impairment and disease. <i>Neurobiology of Learning and Memory</i> , 2011, 96, 505-506.	1.0	0
88	Potent and Selective Estrogen Receptor-Beta Agonists Which Enhance Memory Consolidation in an Ovariectomized Mouse Model. <i>Proceedings (mdpi)</i> , 2019, 22, .	0.2	0
89	Memory and Epigenetics: Role of Estrogen. , 2019, , 42-51.		0
90	The Development and Characterization of Estrogen Receptor Beta Agonists to Treat Cognitive Decline in Postmenopausal Women. <i>FASEB Journal</i> , 2019, 33, 670.9.	0.2	0