Michael S Fanselow

List of Publications by Citations

226 papers	24,589 citations	76 h-index	155 g-index
270 ext. papers	27,409 ext. citations	5.8 avg, IF	7.27 L-index

#	Paper	IF	Citations
226	Are the dorsal and ventral hippocampus functionally distinct structures?. *Neuron*, **2010**, 65, 7-19	13.9	2005
225	Why we think plasticity underlying Pavlovian fear conditioning occurs in the basolateral amygdala. *Neuron*, **1999**, 23, 229-32	13.9	713
224	Dentate gyrus NMDA receptors mediate rapid pattern separation in the hippocampal network. *Science*, **2007**, 317, 94-9	33.3	704
223	Conditioned and unconditional components of post-shock freezing. *The Pavlovian Journal of Biological Science*, **1980**, 15, 177-82		697
222	A perceptual-defensive-recuperative model of fear and pain. *Behavioral and Brain Sciences*, **1980**, 3, 291-301	30	682
221	Neural organization of the defensive behavior system responsible for fear. *Psychonomic Bulletin and Review*, **1994**, 1, 429-38	4.1	661
220	Neurotoxic lesions of the dorsal hippocampus and Pavlovian fear conditioning in rats. *Behavioural Brain Research*, **1997**, 88, 261-74	3.4	608
219	Young dentate granule cells mediate pattern separation, whereas old granule cells facilitate pattern completion. *Cell*, **2012**, 149, 188-201	56.2	579
218	Genetic dissection of an amygdala microcircuit that gates conditioned fear. *Nature*, **2010**, 468, 270-6	50.4	578
217	Contextual fear, gestalt memories, and the hippocampus. *Behavioural Brain Research*, **2000**, 110, 73-81	3.4	572
216	NF-kappa B functions in synaptic signaling and behavior. *Nature Neuroscience*, **2003**, 6, 1072-8	25.5	568
215	The neuroscience of mammalian associative learning. *Annual Review of Psychology*, **2005**, 56, 207-34	26.1	544
214	Hippocampus and contextual fear conditioning: recent controversies and advances. *Hippocampus*, **2001**, 11, 8-17	3.5	514
213	Temporally graded retrograde amnesia of contextual fear after hippocampal damage in rats: within-subjects examination. *Journal of Neuroscience*, **1999**, 19, 1106-14	6.6	513
212	Role of interleukin-1beta in postoperative cognitive dysfunction. *Annals of Neurology*, **2010**, 68, 360-8	9.4	484
211	Effects of amygdala, hippocampus, and periaqueductal gray lesions on short- and long-term contextual fear.. *Behavioral Neuroscience*, **1993**, 107, 1093-1098	2.1	470
210	Factors governing one-trial contextual conditioning. *Learning and Behavior*, **1990**, 18, 264-270		365

209	Acquisition of contextual Pavlovian fear conditioning is blocked by application of an NMDA receptor antagonist D,L-2-amino-5-phosphonovaleric acid to the basolateral amygdala.. *Behavioral Neuroscience*, **1994**, 108, 210-212	2.1	355
208	N-methyl-D-aspartate receptors in the basolateral amygdala are required for both acquisition and expression of conditional fear in rats.. *Behavioral Neuroscience*, **1996**, 110, 1365-1374	2.1	332
207	Sex differences in hippocampal long-term potentiation (LTP) and Pavlovian fear conditioning in rats: positive correlation between LTP and contextual learning. *Brain Research*, **1994**, 661, 25-34	3.7	330
206	The amygdala and fear conditioning: has the nut been cracked?. *Neuron*, **1996**, 16, 237-40	13.9	327
205	Naloxone and shock-elicited freezing in the rat. *Journal of Comparative and Physiological Psychology* , **1979**, 93, 736-44		322
204	Role of the basolateral amygdala in the storage of fear memories across the adult lifetime of rats. *Journal of Neuroscience*, **2004**, 24, 3810-5	6.6	316
203	Stress-induced enhancement of fear learning: an animal model of posttraumatic stress disorder. *Neuroscience and Biobehavioral Reviews*, **2005**, 29, 1207-23	9	303
202	Electrolytic lesions of the fimbria/fornix, dorsal hippocampus, or entorhinal cortex produce anterograde deficits in contextual fear conditioning in rats. *Neurobiology of Learning and Memory*, **1997**, 67, 142-9	3.1	268
201	Associative vs topographical accounts of the immediate shock-freezing deficit in rats: Implications for the response selection rules governing species-specific defensive reactions. *Learning and Motivation*, **1986**, 17, 16-39	1.3	268
200	N-methyl-D-aspartate receptor antagonist APV blocks acquisition but not expression of fear conditioning.. *Behavioral Neuroscience*, **1991**, 105, 126-133	2.1	267
199	Context fear learning in the absence of the hippocampus. *Journal of Neuroscience*, **2006**, 26, 5484-91	6.6	264
198	Retrograde abolition of conditional fear after excitotoxic lesions in the basolateral amygdala of rats: Absence of a temporal gradient.. *Behavioral Neuroscience*, **1996**, 110, 718-726	2.1	244
197	Genomic-anatomic evidence for distinct functional domains in hippocampal field CA1. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11794-9	11.5	232
196	Trace but not delay fear conditioning requires attention and the anterior cingulate cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13087-92	11.5	229
195	The amygdala, fear, and memory. *Annals of the New York Academy of Sciences*, **2003**, 985, 125-34	6.5	224
194	The place of the hippocampus in fear conditioning. *European Journal of Pharmacology*, **2003**, 463, 217-23	5.3	221
193	NMDA processes mediate anterograde amnesia of contextual fear conditioning induced by hippocampal damage: Immunization against amnesia by context preexposure.. *Behavioral Neuroscience*, **1994**, 108, 19-29	2.1	209
192	Distinct regions of the periaqueductal gray are involved in the acquisition and expression of defensive responses. *Journal of Neuroscience*, **1998**, 18, 3426-32	6.6	197

191	Shock-induced analgesia on the formalin test: Effects of shock severity, naloxone, hypophysectomy, and associative variables.. *Behavioral Neuroscience*, **1984**, 98, 79-95	2.1	186
190	Conditional analgesia, defensive freezing, and benzodiazepines.. *Behavioral Neuroscience*, **1988**, 102, 233-243	2.1	178
189	Conditioned fear-induced opiate analgesia: a competing motivational state theory of stress analgesia. *Annals of the New York Academy of Sciences*, **1986**, 467, 40-54	6.5	175
188	Neurobehavioral perspectives on the distinction between fear and anxiety. *Learning and Memory*, **2015**, 22, 417-25	2.8	168
187	Immediate-early gene expression in the amygdala following footshock stress and contextual fear conditioning. *Brain Research*, **1998**, 796, 132-42	3.7	161
186	From contextual fear to a dynamic view of memory systems. *Trends in Cognitive Sciences*, **2010**, 14, 7-15	14	155
185	Conditioned fear-induced opiate analgesia on the Formalin test: Evidence for two aversive motivational systems. *Learning and Motivation*, **1982**, 13, 200-221	1.3	154
184	Exposure to a cat produces opioid analgesia in rats.. *Behavioral Neuroscience*, **1985**, 99, 756-759	2.1	151
183	Post-training excitotoxic lesions of the dorsal hippocampus attenuate forward trace, backward trace, and delay fear conditioning in a temporally specific manner. *Hippocampus*, **2002**, 12, 495-504	3.5	150
182	Naloxone attenuates rat preference for signaled shock. *Physiological Psychology*, **1979**, 7, 70-74		144
181	Behavioral differences among C57BL/6 substrains: implications for transgenic and knockout studies. *Journal of Neurogenetics*, **2008**, 22, 315-31	1.6	142
180	Neuronal ensembles in amygdala, hippocampus, and prefrontal cortex track differential components of contextual fear. *Journal of Neuroscience*, **2014**, 34, 8462-6	6.6	137
179	Dorsal hippocampus involvement in trace fear conditioning with long, but not short, trace intervals in mice. *Behavioral Neuroscience*, **2005**, 119, 1396-402	2.1	130
178	Dorsal hippocampus NMDA receptors differentially mediate trace and contextual fear conditioning. *Hippocampus*, **2005**, 15, 665-74	3.5	130
177	Differential effects of the N-methyl-D-aspartate antagonist DL-2-amino-5-phosphonovalerate on acquisition of fear of auditory and contextual cues.. *Behavioral Neuroscience*, **1994**, 108, 235-240	2.1	130
176	Triggering of the endorphin analgesic reaction by a cue previously associated with shock: Reversal by naloxone. *Bulletin of the Psychonomic Society*, **1979**, 14, 88-90		116
175	Scopolamine and Pavlovian fear conditioning in rats: dose-effect analysis. *Neuropsychopharmacology*, **1999**, 21, 731-44	8.7	113
174	The Midbrain Periaqueductal Gray as a Coordinator of Action in Response to Fear and Anxiety **1991**, 151-173		112

173	Prefrontal microcircuit underlies contextual learning after hippocampal loss. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9938-43	11.5	111
172	Inverse temporal contributions of the dorsal hippocampus and medial prefrontal cortex to the expression of long-term fear memories. *Learning and Memory*, **2008**, 15, 368-72	2.8	111
171	Pavlovian conditioning, negative feedback, and blocking: mechanisms that regulate association formation. *Neuron*, **1998**, 20, 625-7	13.9	110
170	Hyperactivity with Disrupted Attention by Activation of an Astrocyte Synaptogenic Cue. *Cell*, **2019**, 177, 1280-1292.e20	56.2	109
169	Concussive brain injury enhances fear learning and excitatory processes in the amygdala. *Biological Psychiatry*, **2012**, 71, 335-43	7.9	107
168	Exposure to a stressor produces a long lasting enhancement of fear learning in rats. *Stress*, **2009**, 12, 125-33	3	107
167	Flavor-flavor associations induce hedonic shifts in taste preference. *Learning and Behavior*, **1982**, 10, 223-228		104
166	Sex differences, context preexposure, and the immediate shock deficit in Pavlovian context conditioning with mice. *Behavioral Neuroscience*, **2001**, 115, 26-32	2.1	102
165	Electrical synapses control hippocampal contributions to fear learning and memory. *Science*, **2011**, 331, 87-91	33.3	98
164	The startled seahorse: is the hippocampus necessary for contextual fear conditioning?. *Trends in Cognitive Sciences*, **1998**, 2, 39-42	14	95
163	Parallel augmentation of hippocampal long-term potentiation, theta rhythm, and contextual fear conditioning in water-deprived rats.. *Behavioral Neuroscience*, **1994**, 108, 44-56	2.1	95
162	Naloxone and Pavlovian fear conditioning. *Learning and Motivation*, **1981**, 12, 398-419	1.3	94
161	The hippocampus, consolidation and on-line memory. *Current Opinion in Neurobiology*, **1998**, 8, 293-6	7.6	90
160	Cholinergic modulation of pavlovian fear conditioning: effects of intrahippocampal scopolamine infusion. *Hippocampus*, **2001**, 11, 371-6	3.5	86
159	Effects of cerebellar vermal lesions on species-specific fear responses, neophobia, and taste-aversion learning in rats. *Physiology and Behavior*, **1987**, 39, 579-86	3.5	84
158	Amygdala transcriptome and cellular mechanisms underlying stress-enhanced fear learning in a rat model of posttraumatic stress disorder. *Neuropsychopharmacology*, **2010**, 35, 1402-11	8.7	83
157	Scopolamine selectively disrupts the acquisition of contextual fear conditioning in rats. *Neurobiology of Learning and Memory*, **1995**, 64, 191-4	3.1	81
156	What is conditioned fear?. *Trends in Neurosciences*, **1984**, 7, 460-462	13.3	81

155	The postshock activity burst. *Learning and Behavior*, **1982**, 10, 448-454		80
154	Effects of naltrexone on learning and performance of conditional fear-induced freezing and opioid analgesia. *Physiology and Behavior*, **1987**, 39, 501-5	3.5	79
153	Trace fear conditioning is enhanced in mice lacking the delta subunit of the GABAA receptor. *Learning and Memory*, **2005**, 12, 327-33	2.8	78
152	A role for calcium-permeable AMPA receptors in synaptic plasticity and learning. *PLoS ONE*, **2010**, 5, e12818	3.7	78
151	NMDA receptor hypofunction in the dentate gyrus and impaired context discrimination in adult Fmr1 knockout mice. *Hippocampus*, **2012**, 22, 241-54	3.5	77
150	Associative fear learning enhances sparse network coding in primary sensory cortex. *Neuron*, **2012**, 75, 121-32	13.9	76
149	The role of muscarinic and nicotinic cholinergic neurotransmission in aversive conditioning: comparing pavlovian fear conditioning and inhibitory avoidance. *Learning and Memory*, **2004**, 11, 35-42	2.8	72
148	Signaled shock-free periods and preference for signaled shock.. *Journal of Experimental Psychology*, **1980**, 6, 65-80		71
147	Impaired emotional learning and involvement of the corticotropin-releasing factor signaling system in patients with irritable bowel syndrome. *Gastroenterology*, **2013**, 145, 1253-61.e1-3	13.3	67
146	Stress increases voluntary alcohol intake, but does not alter established drinking habits in a rat model of posttraumatic stress disorder. *Alcoholism: Clinical and Experimental Research*, **2013**, 37, 566-74	3.7	65
145	Pre-training prevents context fear conditioning deficits produced by hippocampal NMDA receptor blockade. *Neurobiology of Learning and Memory*, **2003**, 80, 123-9	3.1	64
144	Explicitly unpaired delivery of morphine and the test situation: extinction and retardation of tolerance to the suppressing effects of morphine on locomotor activity. *Behavioral and Neural Biology*, **1982**, 35, 231-41		63
143	Compensation in the neural circuitry of fear conditioning awakens learning circuits in the bed nuclei of the stria terminalis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 14881-6	11.5	62
142	Immediate shock deficit in fear conditioning: effects of shock manipulations. *Behavioral Neuroscience*, **2006**, 120, 873-9	2.1	61
141	Induction and Expression of Fear Sensitization Caused by Acute Traumatic Stress. *Neuropsychopharmacology*, **2016**, 41, 45-57	8.7	57
140	Dorsal hippocampus involvement in delay fear conditioning depends upon the strength of the tone-footshock association. *Hippocampus*, **2008**, 18, 640-54	3.5	57
139	Water deprivation enhances fear conditioning to contextual, but not discrete, conditional stimuli in rats.. *Behavioral Neuroscience*, **1994**, 108, 645-649	2.1	57
138	The Origins and Organization of Vertebrate Pavlovian Conditioning. *Cold Spring Harbor Perspectives in Biology*, **2015**, 8, a021717	10.2	56

137	Persistence of fear memory across time requires the basolateral amygdala complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11737-41	11.5	54
136	Cholinergic blockade frees fear extinction from its contextual dependency. *Biological Psychiatry*, **2013**, 73, 345-52	7.9	53
135	Contextual fear memories formed in the absence of the dorsal hippocampus decay across time. *Journal of Neuroscience*, **2012**, 32, 3393-7	6.6	53
134	Associative regulation of Pavlovian fear conditioning: Unconditioned stimulus intensity, incentive shifts, and latent inhibition.. *Journal of Experimental Psychology*, **1992**, 18, 400-413		53
133	Cats produce analgesia in rats on the tail-flick test: naltrexone sensitivity is determined by the nociceptive test stimulus. *Brain Research*, **1990**, 533, 91-4	3.7	52
132	Conditioning- and time-dependent increases in context fear and generalization. *Learning and Memory*, **2016**, 23, 379-85	2.8	51
131	Opiate modulation of the active and inactive components of the postshock reaction: Parallels between naloxone pretreatment and shock intensity.. *Behavioral Neuroscience*, **1984**, 98, 269-277	2.1	51
130	Ventral and dorsolateral regions of the midbrain periaqueductal gray (PAG) control different stages of defensive behavior: Dorsolateral PAG lesions enhance the defensive freezing produced by massed and immediate shock. *Aggressive Behavior*, **1995**, 21, 63-77	2.8	50
129	Amnesia for early life stress does not preclude the adult development of posttraumatic stress disorder symptoms in rats. *Biological Psychiatry*, **2014**, 76, 306-14	7.9	47
128	Alpha 1 subunit-containing GABA type A receptors in forebrain contribute to the effect of inhaled anesthetics on conditioned fear. *Molecular Pharmacology*, **2005**, 68, 61-8	4.3	47
127	Tonic nociception in neonatal rats. *Pharmacology Biochemistry and Behavior*, **1990**, 36, 859-62	3.9	47
126	Changes in feeding and foraging patterns as an antipredator defensive strategy: a laboratory simulation using aversive stimulation in a closed economy. *Journal of the Experimental Analysis of Behavior*, **1988**, 50, 361-74	2.1	46
125	The accurate measurement of fear memory in Pavlovian conditioning: Resolving the baseline issue. *Journal of Neuroscience Methods*, **2010**, 190, 235-9	3	45
124	NMDA receptor modulation of incidental learning in Pavlovian context conditioning. *Behavioral Neuroscience*, **2004**, 118, 253-7	2.1	44
123	A return to the psychiatric dark ages with a two-system framework for fear. *Behaviour Research and Therapy*, **2018**, 100, 24-29	5.2	44
122	A Safe Haven: Investigating Social-Support Figures as Prepared Safety Stimuli. *Psychological Science* , **2016**, 27, 1051-60	7.9	42
121	The benzodiazepine inverse agonist DMCM as an unconditional stimulus for fear-induced analgesia: Implications for the role of GABAA receptors in fear-related behavior.. *Behavioral Neuroscience*, **1992**, 106, 336-344	2.1	42
120	Temporal factors control hippocampal contributions to fear renewal after extinction. *Hippocampus*, **2012**, 22, 1096-106	3.5	41

119	Altered GABAA Receptor Subunit and Splice Variant Expression in Rats Treated With Chronic Intermittent Ethanol. *Alcoholism: Clinical and Experimental Research*, **2001**, 25, 819-828	3.7	41
118	The ontogeny of opiate tolerance and withdrawal in infant rats. *Pharmacology Biochemistry and Behavior*, **1988**, 31, 431-8	3.9	41
117	Testicular hormones do not regulate sexually dimorphic Pavlovian fear conditioning or perforant-path long-term potentiation in adult male rats. *Behavioural Brain Research*, **1998**, 92, 1-9	3.4	39
116	Enrichment rescues contextual discrimination deficit associated with immediate shock. *Hippocampus*, **2015**, 25, 385-92	3.5	38
115	Long-term memory deficits in Pavlovian fear conditioning in Ca2+/calmodulin kinase kinase alpha-deficient mice. *Molecular and Cellular Biology*, **2006**, 26, 9105-15	4.8	37
114	Learning theory and neuropsychology: Configuring their disparate elements in the hippocampus.. *Journal of Experimental Psychology*, **1999**, 25, 275-283		37
113	Species-specific danger signals, endogenous opioid analgesia, and defensive behavior.. *Journal of Experimental Psychology*, **1986**, 12, 301-309		37
112	Naloxone pretreatment enhances shock-elicited aggression. *Physiological Psychology*, **1980**, 8, 369-371		36
111	Selective knockdown of NMDA receptors in primary afferent neurons decreases pain during phase 2 of the formalin test. *Neuroscience*, **2011**, 172, 474-82	3.9	35
110	Dissecting the components of the central response to stress. *Nature Neuroscience*, **2003**, 6, 1011-2	25.5	35
109	Lesions of the dorsal hippocampus block trace fear conditioned potentiation of startle. *Behavioral Neuroscience*, **2005**, 119, 834-8	2.1	35
108	Centrally administered opioid antagonists, nor-binaltorphimine, 16-methyl cyprenorphine and MR2266, suppress intake of a sweet solution. *Pharmacology Biochemistry and Behavior*, **1990**, 35, 69-73	3.9	35
107	Gamma-aminobutyric acid type A receptor alpha 4 subunit knockout mice are resistant to the amnestic effect of isoflurane. *Anesthesia and Analgesia*, **2009**, 109, 1816-22	3.9	34
106	The alpha1 subunit of the GABA(A) receptor modulates fear learning and plasticity in the lateral amygdala. *Frontiers in Behavioral Neuroscience*, **2009**, 3, 37	3.5	34
105	The Danger of LeDoux and Pine's Two-System Framework for Fear. *American Journal of Psychiatry*, **2017**, 174, 1120-1121	11.9	33
104	Juvenile neurogenesis makes essential contributions to adult brain structure and plays a sex-dependent role in fear memories. *Frontiers in Behavioral Neuroscience*, **2012**, 6, 3	3.5	33
103	Stress-enhanced fear learning in rats is resistant to the effects of immediate massed extinction. *Stress*, **2012**, 15, 627-36	3	33
102	Quaternary naltrexone reveals the central mediation of conditional opioid analgesia. *Pharmacology Biochemistry and Behavior*, **1987**, 27, 529-31	3.9	32

101	Pathways towards the proliferation of avoidance in anxiety and implications for treatment. *Behaviour Research and Therapy*, **2017**, 96, 3-13	5.2	31
100	Pavlovian conditioning of multiple opioid-like responses in mice. *Drug and Alcohol Dependence*, **2009**, 103, 74-83	4.9	31
99	Design of a neurally plausible model of fear learning. *Frontiers in Behavioral Neuroscience*, **2011**, 5, 41	3.5	30
98	Light stimulus change evokes an activity response in the rat. *Learning and Behavior*, **2004**, 32, 299-310		29
97	Bright light suppresses hyperactivity induced by excitotoxic dorsal hippocampus lesions in the rat. *Behavioral Neuroscience*, **2005**, 119, 1339-52	2.1	29
96	Peripheral versus intracerebroventricular administration of quaternary naltrexone and the enhancement of Pavlovian conditioning. *Brain Research*, **1988**, 444, 147-52	3.7	28
95	Interactions between the hippocampus, prefrontal cortex, and amygdala support complex learning and memory. *F1000Research*, **2019**, 8,	3.6	28
94	The hippocampus and Pavlovian fear conditioning: reply to Bast et al. *Hippocampus*, **2002**, 12, 561-5	3.5	27
93	Differential effects of adding and removing components of a context on the generalization of conditional freezing.. *Journal of Experimental Psychology*, **2003**, 29, 78-83		27
92	Differential second-order aversive conditioning using contextual stimuli. *Learning and Behavior*, **1989**, 17, 205-212		27
91	The development of morphine-induced antinociception in neonatal rats: a comparison of forepaw, hindpaw, and tail retraction from a thermal stimulus. *Pharmacology Biochemistry and Behavior*, **1993** , 44, 643-9	3.9	26
90	[D-Ala2,Leu5,Cys6]enkephalin: short-term agonist effects and long-term antagonism at delta opioid receptors. *Peptides*, **1989**, 10, 319-26	3.8	26
89	The Role of Learning in Threat Imminence and Defensive Behaviors. *Current Opinion in Behavioral Sciences*, **2018**, 24, 44-49	4	25
88	A Bayesian context fear learning algorithm/automaton. *Frontiers in Behavioral Neuroscience*, **2015**, 9, 112	3.5	25
87	A high through-put reverse genetic screen identifies two genes involved in remote memory in mice. *PLoS ONE*, **2008**, 3, e2121	3.7	25
86	The role of the GABA(A) receptor in ovarian cycle-linked changes in hippocampus-dependent learning and memory. *Neurochemical Research*, **2014**, 39, 1140-6	4.6	23
85	Isoflurane suppresses stress-enhanced fear learning in a rodent model of post-traumatic stress disorder. *Anesthesiology*, **2009**, 110, 487-95	4.3	23
84	Deletion of the mu opioid receptor results in impaired acquisition of Pavlovian context fear. *Neurobiology of Learning and Memory*, **2005**, 84, 33-41	3.1	23

83	The role of postnatal neurogenesis in supporting remote memory and spatial metric processing. *Hippocampus*, **2014**, 24, 1663-71	3.5	22
82	Sensitization of fear learning to mild unconditional stimuli in male and female rats. *Behavioral Neuroscience*, **2015**, 129, 62-7	2.1	22
81	Body temperature as a conditional response measure for pavlovian fear conditioning. *Learning and Memory*, **2000**, 7, 353-6	2.8	21
80	The immediate-shock deficit and postshock analgesia: Implications for the relationship between the analgesic CR and UR. *Learning and Behavior*, **1994**, 22, 72-76		21
79	Suppression of juvenile social behavior requires antagonism of central opioid systems. *Pharmacology Biochemistry and Behavior*, **1989**, 33, 697-700	3.9	21
78	The enhancement and reduction of defensive fighting by naloxone pretreatment. *Physiological Psychology*, **1982**, 10, 313-316		21
77	The Adaptive Function of Conditioned Defensive Behavior: An Ecological Approach to Pavlovian Stimulus-Substitution Theory **1989**, 151-166		21
76	Gamma-aminobutyric acid type A receptor β subunit forebrain-specific knockout mice are resistant to the amnestic effect of isoflurane. *Anesthesia and Analgesia*, **2011**, 113, 500-4	3.9	21
75	Differential effects of adding and removing components of a context on the generalization of conditional freezing. *Journal of Experimental Psychology*, **2003**, 29, 78-83		21
74	Associations and Memories: The Role of NMDA Receptors and Long-Term Potentiation. *Current Directions in Psychological Science*, **1993**, 2, 152-156	6.5	20
73	Aversively motivated changes in meal patterns of rats in a closed economy: The effects of shock density. *Learning and Behavior*, **1993**, 21, 168-175		20
72	Behavioral pharmacogenetic analysis on the role of the α4 GABA(A) receptor subunit in the ethanol-mediated impairment of hippocampus-dependent contextual learning. *Alcoholism: Clinical and Experimental Research*, **2011**, 35, 1948-59	3.7	19
71	Post-training excitotoxic lesions of the dorsal hippocampus attenuate generalization in auditory delay fear conditioning. *European Journal of Neuroscience*, **2009**, 29, 1692-700	3.5	19
70	Opioid regulation of Pavlovian overshadowing in fear conditioning. *Behavioral Neuroscience*, **2010**, 124, 510-9	2.1	18
69	Reductions in synaptic proteins and selective alteration of prepulse inhibition in male C57BL/6 mice after postnatal administration of a VIP receptor (VIPR2) agonist. *Psychopharmacology*, **2015**, 232, 2181-9	4.7	17
68	Building physiological toughness: Some aversive events during extinction may attenuate return of fear. *Journal of Behavior Therapy and Experimental Psychiatry*, **2018**, 58, 18-28	2.6	17
67	Retrieval and Reconsolidation Accounts of Fear Extinction. *Frontiers in Behavioral Neuroscience*, **2016**, 10, 89	3.5	17
66	Graded fear generalization enhances the level of cfos-positive neurons specifically in the basolateral amygdala. *Journal of Neuroscience Research*, **2016**, 94, 1393-1399	4.4	17

65	Optogenetic excitation of cholinergic inputs to hippocampus primes future contextual fear associations. *Scientific Reports*, **2017**, 7, 2333	4.9	16
64	Emotion, motivation and function. *Current Opinion in Behavioral Sciences*, **2018**, 19, 105-109	4	15
63	Reinstatement of extinguished fear by an unextinguished conditional stimulus. *Frontiers in Behavioral Neuroscience*, **2012**, 6, 18	3.5	15
62	Synapses, circuits, and the ontogeny of learning. *Developmental Psychobiology*, **2007**, 49, 649-63	3	15
61	Fear and anxiety take a double hit from vagal nerve stimulation. *Biological Psychiatry*, **2013**, 73, 1043-4	7.9	14
60	Brief flight to a familiar enclosure in response to a conditional stimulus in rats. *Journal of General Psychology*, **2007**, 134, 153-72	1	13
59	Modulation of an activity response with associative and nonassociative fear in the rat: a lighting differential influences the form of defensive behavior evoked after fear conditioning. *Learning and Behavior*, **2005**, 33, 454-63	1.3	13
58	Maladaptive Properties of Context-Impoverished Memories. *Current Biology*, **2020**, 30, 2300-2311.e6	6.3	12
57	The effect of three inhaled anesthetics in mice harboring mutations in the GluR6 (kainate) receptor gene. *Anesthesia and Analgesia*, **2005**, 101, 143-8, table of contents	3.9	12
56	Impaired extinction of cued fear memory and abnormal dendritic morphology in the prelimbic and infralimbic cortices in VPAC2 receptor (VIPR2)-deficient mice. *Neurobiology of Learning and Memory* , **2017**, 145, 222-231	3.1	11
55	Sensory sensitivity as a link between concussive traumatic brain injury and PTSD. *Scientific Reports*, **2019**, 9, 13841	4.9	11
54	Timing and the transition between modes in the defensive behavior system. *Behavioural Processes*, **2019**, 166, 103890	1.6	11
53	MicroRNA-mediated disruption of dendritogenesis during a critical period of development influences cognitive capacity later in life. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 9188-9193	11.5	11
52	The ventromedial prefrontal cortex in a model of traumatic stress: fear inhibition or contextual processing?. *Learning and Memory*, **2017**, 24, 400-406	2.8	11
51	Long-Term Characterization of Hippocampal Remapping during Contextual Fear Acquisition and Extinction. *Journal of Neuroscience*, **2020**, 40, 8329-8342	6.6	11
50	Stress-Enhanced Fear Learning, a Robust Rodent Model of Post-Traumatic Stress Disorder. *Journal of Visualized Experiments*, **2018**,	1.6	11
49	Cholinergic Modulation of Exposure Disrupts Hippocampal Processes and Augments Extinction: Proof-of-Concept Study With Social Anxiety Disorder. *Biological Psychiatry*, **2019**, 86, 703-711	7.9	10
48	Morphine analgesic tolerance in 129P3/J and 129S6/SvEv mice. *Pharmacology Biochemistry and Behavior*, **2006**, 85, 769-79	3.9	10

47	Isoflurane antagonizes the capacity of flurothyl or 1,2-dichlorohexafluorocyclobutane to impair fear conditioning to context and tone. *Anesthesia and Analgesia*, **2003**, 96, 1010-1018	3.9	9
46	Administration of epinephrine does not increase learning of fear to tone in rats anesthetized with isoflurane or desflurane. *Anesthesia and Analgesia*, **2005**, 100, 1333-1337	3.9	9
45	Connectivity characterization of the mouse basolateral amygdalar complex. *Nature Communications* , **2021**, 12, 2859	17.4	9
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