Fred J Helmstetter

List of Publications by Year
in descending order

108 papers	6,223 citations	53751 45 h-index	74108 75 g-index
111 all docs	111 docs citations	111 times ranked	4781 citing authors

#	Article	IF	Citations
1	Neural Substrates Mediating Human Delay and Trace Fear Conditioning. Journal of Neuroscience, 2004, 24, 218-228.	1.7	243
2	Translational Control via the Mammalian Target of Rapamycin Pathway Is Critical for the Formation and Stability of Long-Term Fear Memory in Amygdala Neurons. Journal of Neuroscience, 2006, 26, 12977-12983.	1.7	224
3	Effects of muscimol applied to the basolateral amygdala on acquisition and expression of contextual fear conditioning in rats.. Behavioral Neuroscience, 1994, 108, 1005-1009.	0.6	219
4	Amygdala and hippocampal activity during acquisition and extinction of human fear conditioning. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 317-325.	1.0	211
5	The amygdala is essential for the expression of conditional hypoalgesia.. Behavioral Neuroscience, 1992, 106, 518-528.	0.6	204
6	Conditional analgesia, defensive freezing, and benzodiazepines.. Behavioral Neuroscience, 1988, 102, 233-243.	0.6	181
7	Activity Dependent Protein Degradation Is Critical for the Formation and Stability of Fear Memory in the Amygdala. PLoS ONE, 2011, 6, e24349.	1.1	155
8	Trace and contextual fear conditioning require neural activity and NMDA receptor-dependent transmission in the medial prefrontal cortex. Learning and Memory, 2010, 17, 289-296.	0.5	151
9	Antinociception following opioid stimulation of the basolateral amygdala is expressed through the periaqueductal gray and rostral ventromedial medulla. Brain Research, 1998, 779, 104-118.	1.1	147
10	Chronic stress selectively reduces hippocampal volume in rats: a longitudinal magnetic resonance imaging study. NeuroReport, 2009, 20, 1554-1558.	0.6	146
11	Prefrontal cortical regulation of fear learning. Trends in Neurosciences, 2014, 37, 455-464.	4.2	145
12	Acquisition of fear conditioning in rats requires the synthesis of mRNA in the amygdala.. Behavioral Neuroscience, 1999, 113, 276-282.	0.6	142
13	Functional MRI of human amygdala activity during Pavlovian fear conditioning: Stimulus processing versus response expression.. Behavioral Neuroscience, 2003, 117, 3-10.	0.6	136
14	Lesions of the amygdala block conditional hypoalgesia on the tail flick test. Brain Research, 1993, 612, 253-257.	1.1	129
15	The ubiquitinâ€"proteasome system as a critical regulator of synaptic plasticity and long-term memory formation. Neurobiology of Learning and Memory, 2013, 105, 107-116.	1.0	126
16	Human amygdala activity during the expression of fear responses.. Behavioral Neuroscience, 2006, 120, 1187-1195.	0.6	113
17	Contribution of the amygdala to learning and performance of conditional fear. Physiology and Behavior, 1992, 51, 1271-1276.	1.0	106
18	Protein degradation and protein synthesis in long-term memory formation. Frontiers in Molecular Neuroscience, 2014, 7, 61.	1.4	97

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19	Stress-induced hypoalgesia and defensive freezing are attenuated by application of diazepam to the amygdala. Pharmacology Biochemistry and Behavior, 1993, 44, 433-438.	1.3	96
20	CaMKII regulates proteasome phosphorylation and activity and promotes memory destabilization following retrieval. Neurobiology of Learning and Memory, 2016, 128, 103-109.	1.0	96
21	Effects of naltrexone on learning and performance of conditional fear-induced freezing and opioid analgesia. Physiology and Behavior, 1987, 39, 501-505.	1.0	91
22	The human amygdala plays a stimulus specific role in the detection of novelty. NeuroImage, 2011, 55, 1889-1898.	2.1	91
23	Time-Dependent Expression of Arc and Zif268 after Acquisition of Fear Conditioning. Neural Plasticity, 2010, 2010, 1-12.	1.0	90
24	Trace and contextual fear conditioning are impaired following unilateral microinjection of muscimol in the ventral hippocampus or amygdala, but not the medial prefrontal cortex. Neurobiology of Learning and Memory, 2012, 97, 452-464.	1.0	90
25	Prefrontal Activity Links Nonoverlapping Events in Memory. Journal of Neuroscience, 2013, 33, 10910-10914.	1.7	87
26	Antinociception produced by mu opioid receptor activation in the amygdala is partly dependent on activation of mu opioid and neurotensin receptors in the ventral periaqueductal gray. Brain Research, 2000, 865, 17-26.	1.1	86
27	Conditional hypoalgesia is attenuated by Naltrexone applied to the periaqueductal gray. Brain Research, 1990, 537, 88-92.	1.1	85
28	The retrosplenial cortex is involved in the formation of memory for context and trace fear conditioning. Neurobiology of Learning and Memory, 2015, 123, 110-116.	1.0	82
29	Long-term stability of fear memory depends on the synthesis of protein but not mRNA in the amygdala. European Journal of Neuroscience, 2006, 23, 1853-1859.	1.2	81
30	Inhibition of the tail flick reflex following microinjection of morphine into the amygdala. NeuroReport, 1993, 4, 471-474.	0.6	79
31	CaMKII, but not protein kinase A, regulates Rpt6 phosphorylation and proteasome activity during the formation of long-term memories. Frontiers in Behavioral Neuroscience, 2013, 7, 115.	1.0	78
32	Functional MRI of human amygdala activity during Pavlovian fear conditioning: Stimulus processing versus response expression.. Behavioral Neuroscience, 2003, 117, 3-10.	0.6	78
33	Protein kinase Mzeta maintains fear memory in the amygdala but not in the hippocampus.. Behavioral Neuroscience, 2009, 123, 844-850.	0.6	77
34	Effects of Exercise on Pavlovian Fear Conditioning.. Behavioral Neuroscience, 2004, 118, 1123-1127.	0.6	72
35	Macromolecular synthesis, distributed synaptic plasticity, and fear conditioning. Neurobiology of Learning and Memory, 2008, 89, 324-337.	1.0	71
36	Neural systems for the expression of hypoalgesia during nonassociative fear.. Behavioral Neuroscience, 1996, 110, 727-736.	0.6	68

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37	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, 361-374.	0.8	66
38	Classical conditioning of autonomic fear responses is independent of contingency awareness.. Journal of Experimental Psychology, 2010, 36, 495-500.	1.9	64
39	Activity in the human amygdala corresponds to early, rather than late period autonomic responses to a signal for shock. Learning and Memory, 2007, 14, 485-490.	0.5	61
40	Memory consolidation in both trace and delay fear conditioning is disrupted by intra-amygdala infusion of the protein synthesis inhibitor anisomycin. Learning and Memory, 2011, 18, 728-732.	0.5	58
41	NR2A- and NR2B-containing NMDA receptors in the prelimbic medial prefrontal cortex differentially mediate trace, delay, and contextual fear conditioning. Learning and Memory, 2013, 20, 290-294.	0.5	57
42	The role of mu and kappa opioid receptors within the periaqueductal gray in the expression of conditional hypoalgesia. Brain Research, 1998, 791, 83-89.	1.1	55
43	Resting-state connectivity of the amygdala is altered following Pavlovian fear conditioning. Frontiers in Human Neuroscience, 2012, 6, 242.	1.0	52
44	Memory formation for trace fear conditioning requires ubiquitin-proteasome mediated protein degradation in the prefrontal cortex. Frontiers in Behavioral Neuroscience, 2013, 7, 150.	1.0	51
45	Extinguishing trace fear engages the retrosplenial cortex rather than the amygdala. Neurobiology of Learning and Memory, 2014, 113, 41-54.	1.0	48
46	Analgesia produced by centrally administered DAGO, DPDPE and U50488H in the formalin test. European Journal of Pharmacology, 1988, 153, 117-122.	1.7	45
47	The timing of multiple retrieval events can alter GluR1 phosphorylation and the requirement for protein synthesis in fear memory reconsolidation. Learning and Memory, 2012, 19, 300-306.	0.5	45
48	Does PKM(zeta) maintain memory?. Brain Research Bulletin, 2014, 105, 36-45.	1.4	45
49	The formation of auditory fear memory requires the synthesis of protein and mRNA in the auditory thalamus. Neuroscience, 2006, 141, 1163-1170.	1.1	41
50	Contextual Information Drives the Reconsolidation-Dependent Updating of Retrieved Fear Memories. Neuropsychopharmacology, 2015, 40, 3044-3052.	2.8	41
51	Effects of Hippocampal Injections of a Novel Ligand Selective for the Î±5Î²2Î³2 Subunits of the GABA/Benzodiazepine Receptor on Pavlovian Conditioning. Neurobiology of Learning and Memory, 2002, 78, 1-10.	1.0	38
52	Quaternary naltrexone reveals the central mediation of conditional opioid analgesia. Pharmacology Biochemistry and Behavior, 1987, 27, 529-531.	1.3	37
53	GluR2 endocytosis-dependent protein degradation in the amygdala mediates memory updating. Scientific Reports, 2019, 9, 5180.	1.6	36
54	Intra-amygdala infusion of the protein kinase Mzeta inhibitor ZIP disrupts foreground context fear memory. Neurobiology of Learning and Memory, 2012, 98, 148-153.	1.0	34

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55	Differential second-order aversive conditioning using contextual stimuli. Learning and Behavior, 1989, 17, 205-212.	3.4	33
56	Hypoalgesia in response to sensitization during acute noise stress.. Behavioral Neuroscience, 1994, 108, 177-185.	0.6	33
57	Peripheral versus intracerebroventricular administration of quaternary naltrexone and the enhancement of Pavlovian conditioning. Brain Research, 1988, 444, 147-152.	1.1	32
58	Hypoalgesia elicited by a conditioned stimulus is blocked by a Î¼, but not a Î´ or a Îº , opioid antagonist injected into the rostral ventromedial medulla. Pain, 1999, 83, 427-431.	2.0	32
59	The ubiquitin-specific protease 14 (USP14) is a critical regulator of long-term memory formation. Learning and Memory, 2013, 21, 748-752.	0.5	32
60	The Effects of Central Injections of Calcitonin Gene-Related Peptide on Fear-Related Behavior. Neurobiology of Learning and Memory, 1996, 66, 241-245.	1.0	31
61	Regulation of extinction-related plasticity by opioid receptors in the ventrolateral periaqueductal gray matter. Frontiers in Behavioral Neuroscience, 2010, 4, .	1.0	31
62	Input from the medial geniculate nucleus modulates amygdala encoding of fear memory discrimination. Learning and Memory, 2017, 24, 414-421.	0.5	31
63	Aversively motivated changes in meal patterns of rats in a closed economy: The effects of shock density. Learning and Behavior, 1993, 21, 168-175.	3.4	30
64	Calcitonin Gene-Related Peptide Released within the Amygdala Is Involved in Pavlovian Auditory Fear Conditioning. Neurobiology of Learning and Memory, 2001, 75, 149-163.	1.0	30
65	Functionally distinct amygdala subregions identified using DTI and high-resolution fMRI. Social Cognitive and Affective Neuroscience, 2015, 10, 1615-1622.	1.5	30
66	Effects of systemic and intra-amygdaloid diazepam on long-term habituation of acoustic startle in rats. Pharmacology Biochemistry and Behavior, 1991, 39, 903-909.	1.3	29
67	[D-Ala2,Leu5,Cys6]enkephalin: Short-term agonist effects and long-term antagonism at delta opioid receptors. Peptides, 1989, 10, 319-326.	1.2	28
68	Conditioning with masked stimuli affects the timecourse of skin conductance responses.. Behavioral Neuroscience, 2010, 124, 478-489.	0.6	28
69	Strain differences in reversal of conditional analgesia by opioid antagonists.. Behavioral Neuroscience, 1987, 101, 735-737.	0.6	27
70	Context memory formation requires activity-dependent protein degradation in the hippocampus. Learning and Memory, 2017, 24, 589-596.	0.5	27
71	Rapid Amygdala Responses during Trace Fear Conditioning without Awareness. PLoS ONE, 2014, 9, e96803.	1.1	26
72	Dissociation between implicit and explicit responses in postconditioning UCS revaluation after fear conditioning in humans.. Behavioral Neuroscience, 2013, 127, 357-368.	0.6	24

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73	Memory accuracy predicts hippocampal mTOR pathway activation following retrieval of contextual fear memory. Hippocampus, 2013, 23, 842-847.	0.9	24
74	Psychopaths Show Enhanced Amygdala Activation during Fear Conditioning. Frontiers in Psychology, 2016, 7, 348.	1.1	24
75	The Effect of Threat on Novelty Evoked Amygdala Responses. PLoS ONE, 2013, 8, e63220.	1.1	23
76	Updating Procedures Can Reorganize the Neural Circuit Supporting a Fear Memory. Neuropsychopharmacology, 2017, 42, 1688-1697.	2.8	23
77	The effects of stimulus novelty and negativity on BOLD activity in the amygdala, hippocampus, and bed nucleus of the stria terminalis. Social Cognitive and Affective Neuroscience, 2017, 12, 748-757.	1.5	23
78	The anterior retrosplenial cortex encodes event-related information and the posterior retrosplenial cortex encodes context-related information during memory formation. Neuropsychopharmacology, 2021, 46, 1386-1392.	2.8	23
79	Decreased cued fear discrimination learning in female rats as a function of estrous phase. Learning and Memory, 2020, 27, 254-257.	0.5	22
80	Effects of post-training hippocampal injections of midazolam on fear conditioning. Learning and Memory, 2005, 12, 573-578.	0.5	20
81	How to Detect Amygdala Activity with Magnetoencephalography using Source Imaging. Journal of Visualized Experiments, 2013, , .	0.2	19
82	Modulation of appetitively and aversively motivated behavior by the kappa opioid antagonist MR2266.. Behavioral Neuroscience, 1989, 103, 663-672.	0.6	18
83	Antinociception following application of DAMGO to the basolateral amygdala results from a direct interaction of DAMGO with Mu opioid receptors in the amygdala. Brain Research, 2005, 1064, 56-65.	1.1	18
84	Age-Related Memory Impairment and Sex-Specific Alterations in Phosphorylation of the Rpt6 Proteasome Subunit and Polyubiquitination in the Basolateral Amygdala and Medial Prefrontal Cortex. Frontiers in Aging Neuroscience, 2021, 13, 656944.	1.7	18
85	Activation of kappa opioid receptors in the rostral ventromedial medulla blocks stress-induced antinociception. NeuroReport, 2000, 11, 3349-3352.	0.6	15
86	Expression of antinociception in response to a signal for shock is blocked after selective downregulation of Î¼-opioid receptors in the rostral ventromedial medulla. Molecular Brain Research, 2000, 76, 282-288.	2.5	15
87	The role of the medial prefrontal cortex in trace fear extinction. Learning and Memory, 2015, 22, 39-46.	0.5	15
88	Eye movements are captured by a perceptually simple conditioned stimulus in the absence of explicit contingency knowledge.. Emotion, 2016, 16, 1157-1171.	1.5	15
89	Eye Movements Index Implicit Memory Expression in Fear Conditioning. PLoS ONE, 2015, 10, e0141949.	1.1	12
90	Age-related memory deficits are associated with changes in protein degradation in brain regions critical for trace fear conditioning. Neurobiology of Aging, 2020, 91, 160-166.	1.5	11

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91	Cortico-limbic connectivity changes following fear extinction and relationships with trait anxiety. Social Cognitive and Affective Neuroscience, 2018, 13, 1037-1046.	1.5	10
92	The dorsal hippocampus mediates synaptic destabilization and memory lability in the amygdala in the absence of contextual novelty. Neurobiology of Learning and Memory, 2019, 166, 107089.	1.0	10
93	Optogenetic inhibition of either the anterior or posterior retrosplenial cortex disrupts retrieval of a trace, but not delay, fear memory. Neurobiology of Learning and Memory, 2021, 185, 107530.	1.0	10
94	The beta-carboline DMCM produces hypoalgesia after central administration. Cognitive, Affective and Behavioral Neuroscience, 1990, 18, 293-297.	1.2	10
95	Unique roles for the anterior and posterior retrosplenial cortices in encoding and retrieval of memory for context. Cerebral Cortex, 2022, 32, 3602-3610.	1.6	9
96	Age-Related Memory Impairment Is Associated with Increased zif268 Protein Accumulation and Decreased Rpt6 Phosphorylation. International Journal of Molecular Sciences, 2020, 21, 5352.	1.8	8
97	Introgression of Brown Norway Chromosome 1 onto the Fawn Hooded Hypertensive Background Rescues Long-Term Fear Memory Deficits. Behavior Genetics, 2010, 40, 85-92.	1.4	7
98	SAK3 Administration Improves Spine Abnormalities and Cognitive Deficits in AppNL-G-F/NL-G-F Knock-in Mice by Increasing Proteasome Activity through CaMKII/Rpt6 Signaling. International Journal of Molecular Sciences, 2020, 21, 3833.	1.8	7
99	Isolation driven changes in Iba1-positive microglial morphology are associated with social recognition memory in adults and adolescents. Neurobiology of Learning and Memory, 2022, 192, 107626.	1.0	7
100	Central and peripheral injection of quaternary antagonist, SR58002C, reduces drinking. Physiology and Behavior, 1987, 40, 573-575.	1.0	5
101	Fluorescence laminar optical tomography for brain imaging: system implementation and performance evaluation. Journal of Biomedical Optics, 2017, 22, 016003.	1.4	5
102	Injections of corticotropin-releasing factor into the periaqueductal gray enhance Pavlovian fear conditioning. Cognitive, Affective and Behavioral Neuroscience, 1996, 24, 49-56.	1.2	5
103	Contextual control of conditioned pain tolerance and endogenous analgesic systems. ELife, 2022, 11, .	2.8	4
104	Regulation of learned fear expression through the MgN-amygdala pathway. Neurobiology of Learning and Memory, 2021, 185, 107526.	1.0	3
105	Angularly Resolved Deep Brain Fluorescence Imaging Using a Single Optical Fiber. International Journal of Optics, 2018, 2018, 1-10.	0.6	2
106	Down Regulating Mu Receptors in the Basolateral Complex of Amygdala Prevents Antinociception in the Rat. Korean Journal of Cognitive and Biological Psychology, 2008, 20, 285-301.	0.0	0
107	Ubitquitin Proteasome System, Protein Degradation, and Memory. , 2017, , 279-291.		0
108	Introduction to the Special Issue to Commemorate the Scientific Legacy of David J. Bucci. Neurobiology of Learning and Memory, 2022, 190, 107612.	1.0	0