Sheena Ann Josselyn

List of Publications by Year in Descending Order

99	9,348	49	96
papers	citations	h-index	g-index
107	**11,282**	**11.3**	**6.43**
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
99	Electroconvulsive therapy with a memory reactivation intervention for post-traumatic stress disorder: A randomized controlled trial. *Brain Stimulation*, **2021**, 14, 635-642	5.1	1
98	An inhibitory hippocampal-thalamic pathway modulates remote memory retrieval. *Nature Neuroscience*, **2021**, 24, 685-693	25.5	9
97	Voluntary Exercise Increases Neurogenesis and Mediates Forgetting of Complex Paired Associates Memories. *Neuroscience*, **2021**, 475, 1-9	3.9	2
96	A time-dependent role for the transcription factor CREB in neuronal allocation to an engram underlying a fear memory revealed using a novel in vivo optogenetic tool to modulate CREB function. *Neuropsychopharmacology*, **2020**, 45, 916-924	8.7	13
95	Memory engrams: Recalling the past and imagining the future. *Science*, **2020**, 367,	33.3	193
94	Disruption of Oligodendrogenesis Impairs Memory Consolidation in Adult Mice. *Neuron*, **2020**, 105, 150-164.e6	13.9	124
93	Why Have Two When One Will Do? Comparing Task Representations across Amygdala and Prefrontal Cortex in Single Neurons and Neuronal Populations. *Neuron*, **2020**, 107, 597-599	13.9	0
92	Automated Curation of CNMF-E-Extracted ROI Spatial Footprints and Calcium Traces Using Open-Source AutoML Tools. *Frontiers in Neural Circuits*, **2020**, 14, 42	3.5	3
91	Starring role for astrocytes in memory. *Nature Neuroscience*, **2020**, 23, 1181-1182	25.5	3
90	The role of neuronal excitability, allocation to an engram and memory linking in the behavioral generation of a false memory in mice. *Neurobiology of Learning and Memory*, **2020**, 174, 107284	3.1	5
89	Reflections on the past two decades of neuroscience. *Nature Reviews Neuroscience*, **2020**, 21, 524-534	13.5	15
88	Forgetting at biologically realistic levels of neurogenesis in a large-scale hippocampal model. *Behavioural Brain Research*, **2019**, 376, 112180	3.4	10
87	Memory formation in the absence of experience. *Nature Neuroscience*, **2019**, 22, 933-940	25.5	41
86	Retinoic acid receptor plays both sides of homeostatic plasticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6528-6530	11.5	3
85	Hippocampal clock regulates memory retrieval via Dopamine and PKA-induced GluA1 phosphorylation. *Nature Communications*, **2019**, 10, 5766	17.4	17
84	The neurobiological foundation of memory retrieval. *Nature Neuroscience*, **2019**, 22, 1576-1585	25.5	46
83	Upregulation of Anandamide Hydrolysis in the Basolateral Complex of Amygdala Reduces Fear Memory Expression and Indices of Stress and Anxiety. *Journal of Neuroscience*, **2019**, 39, 1275-1292	6.6	31

82	Neuronal competition: microcircuit mechanisms define the sparsity of the engram. *Current Opinion in Neurobiology*, **2019**, 54, 163-170	7.6	29
81	Elevation of Hippocampal Neurogenesis Induces a Temporally Graded Pattern of Forgetting of Contextual Fear Memories. *Journal of Neuroscience*, **2018**, 38, 3190-3198	6.6	47
80	Memory Allocation: Mechanisms and Function. *Annual Review of Neuroscience*, **2018**, 41, 389-413	17	76
79	Impaired Recent, but Preserved Remote, Autobiographical Memory in Pediatric Brain Tumor Patients. *Journal of Neuroscience*, **2018**, 38, 8251-8261	6.6	7
78	Facing your fears. *Science*, **2018**, 360, 1186-1187	33.3	4
77	The past, present and future of light-gated ion channels and optogenetics. *ELife*, **2018**, 7,	8.9	9
76	Fear Extinction Requires Reward. *Cell*, **2018**, 175, 639-640	56.2	4
75	Memory: Ironing Out a Wrinkle in Time. *Current Biology*, **2018**, 28, R599-R601	6.3	0
74	Recovery of "Lost" Infant Memories in Mice. *Current Biology*, **2018**, 28, 2283-2290.e3	6.3	51
73	Assessing Individual Neuronal Activity Across the Intact Brain: Using Hybridization Chain Reaction (HCR) to Detect Arc mRNA Localized to the Nucleus in Volumes of Cleared Brain Tissue. *Current Protocols in Neuroscience*, **2018**, 84, e49	2.7	6
72	A Compact Head-Mounted Endoscope for In Vivo Calcium Imaging in Freely Behaving Mice. *Current Protocols in Neuroscience*, **2018**, 84, e51	2.7	34
71	The Role of The RNA Demethylase FTO (Fat Mass and Obesity-Associated) and mRNA Methylation in Hippocampal Memory Formation. *Neuropsychopharmacology*, **2017**, 42, 1502-1510	8.7	88
70	Chemogenetic Interrogation of a Brain-wide Fear Memory Network in Mice. *Neuron*, **2017**, 94, 363-374.e4	13.9	119
69	Heroes of the Engram. *Journal of Neuroscience*, **2017**, 37, 4647-4657	6.6	49
68	Entorhinal Cortical Deep Brain Stimulation Rescues Memory Deficits in Both Young and Old Mice Genetically Engineered to Model AlzheimerЂ Disease. *Neuropsychopharmacology*, **2017**, 42, 2493-2503	8.7	31
67	Age-dependent changes in spatial memory retention and flexibility in mice. *Neurobiology of Learning and Memory*, **2017**, 143, 59-66	3.1	23
66	Contextual fear conditioning in zebrafish. *Learning and Memory*, **2017**, 24, 516-523	2.8	32
65	Parvalbumin-positive interneurons mediate neocortical-hippocampal interactions that are necessary for memory consolidation. *ELife*, **2017**, 6,	8.9	82

64	Author response: Parvalbumin-positive interneurons mediate neocortical-hippocampal interactions that are necessary for memory consolidation **2017**,		3
63	Parvalbumin interneurons constrain the size of the lateral amygdala engram. *Neurobiology of Learning and Memory*, **2016**, 135, 91-99	3.1	42
62	Competition between engrams influences fear memory formation and recall. *Science*, **2016**, 353, 383-7	33.3	164
61	Caution When Diagnosing Your Mouse With Schizophrenia: The Use and Misuse of Model Animals for Understanding Psychiatric Disorders. *Biological Psychiatry*, **2016**, 79, 32-8	7.9	36
60	Hippocampal Neurogenesis and Memory Clearance. *Neuropsychopharmacology*, **2016**, 41, 382-3	8.7	22
59	Structural foundations of optogenetics: Determinants of channelrhodopsin ion selectivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 822-9	11.5	136
58	Neurogenesis-mediated forgetting minimizes proactive interference. *Nature Communications*, **2016** , 7, 10838	17.4	118
57	Neuronal Allocation to a Hippocampal Engram. *Neuropsychopharmacology*, **2016**, 41, 2987-2993	8.7	85
56	Development of Adult-Generated Cell Connectivity with Excitatory and Inhibitory Cell Populations in the Hippocampus. *Journal of Neuroscience*, **2015**, 35, 10600-12	6.6	61
55	Finding the engram. *Nature Reviews Neuroscience*, **2015**, 16, 521-34	13.5	299
54	Optogenetics: 10 years after ChR2 in neurons--views from the community. *Nature Neuroscience*, **2015**, 18, 1202-12	25.5	98
53	Optogenetic Inhibitor of the Transcription Factor CREB. *Chemistry and Biology*, **2015**, 22, 1531-1539		29
52	Memory allocation. *Neuropsychopharmacology*, **2015**, 40, 243	8.7	52
51	Optimization of CLARITY for Clearing Whole-Brain and Other Intact Organs. *ENeuro*, **2015**, 2,	3.9	83
50	Memory recall and modifications by activating neurons with elevated CREB. *Nature Neuroscience*, **2014**, 17, 65-72	25.5	99
49	Hippocampal neurogenesis regulates forgetting during adulthood and infancy. *Science*, **2014**, 344, 598-602	33.3	455
48	Manipulating a "cocaine engram" in mice. *Journal of Neuroscience*, **2014**, 34, 14115-27	6.6	66
47	Conditional deletion of □CaMKII impairs integration of adult-generated granule cells into dentate gyrus circuits and hippocampus-dependent learning. *Journal of Neuroscience*, **2014**, 34, 11919-28	6.6	26

46	Prefrontal consolidation supports the attainment of fear memory accuracy. *Learning and Memory*, **2014**, 21, 394-405	2.8	19
45	Neurons are recruited to a memory trace based on relative neuronal excitability immediately before training. *Neuron*, **2014**, 83, 722-35	13.9	231
44	Patterns across multiple memories are identified over time. *Nature Neuroscience*, **2014**, 17, 981-6	25.5	82
43	Posttraining ablation of adult-generated olfactory granule cells degrades odor-reward memories. *Journal of Neuroscience*, **2014**, 34, 15793-803	6.6	23
42	Using Viral Vectors to Study the Memory Trace in Mice. *Neuromethods*, **2014**, 137-154	0.4	
41	Age-dependent effects of hippocampal neurogenesis suppression on spatial learning. *Hippocampus* , **2013**, 23, 66-74	3.5	47
40	p63 Regulates adult neural precursor and newly born neuron survival to control hippocampal-dependent Behavior. *Journal of Neuroscience*, **2013**, 33, 12569-85	6.6	34
39	Reprint of: disrupting Jagged1-Notch signaling impairs spatial memory formation in adult mice. *Neurobiology of Learning and Memory*, **2013**, 105, 20-30	3.1	5
38	Hippocampal neurogenesis and forgetting. *Trends in Neurosciences*, **2013**, 36, 497-503	13.3	154
37	Cholinergic control of morphine-induced locomotion in rostromedial tegmental nucleus versus ventral tegmental area sites. *European Journal of Neuroscience*, **2013**, 38, 2774-85	3.5	23
36	Basal variability in CREB phosphorylation predicts trait-like differences in amygdala-dependent memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16645-50	11.5	17
35	CREB regulates spine density of lateral amygdala neurons: implications for memory allocation. *Frontiers in Behavioral Neuroscience*, **2013**, 7, 209	3.5	33
34	Cerebellar abnormalities in purine nucleoside phosphorylase deficient mice. *Neurobiology of Disease*, **2012**, 47, 201-9	7.5	17
33	The Role of CREB and CREB Co-activators in Memory Formation **2012**, 171-194		1
32	Optical controlling reveals time-dependent roles for adult-born dentate granule cells. *Nature Neuroscience*, **2012**, 15, 1700-6	25.5	311
31	Ontogeny of contextual fear memory formation, specificity, and persistence in mice. *Learning and Memory*, **2012**, 19, 598-604	2.8	49
30	Suppression of adult neurogenesis impairs population coding of similar contexts in hippocampal CA3 region. *Nature Communications*, **2012**, 3, 1253	17.4	128
29	Increasing CRTC1 function in the dentate gyrus during memory formation or reactivation increases memory strength without compromising memory quality. *Journal of Neuroscience*, **2012**, 32, 17857-68	6.6	68

28	Infantile amnesia: a neurogenic hypothesis. *Learning and Memory*, **2012**, 19, 423-33	2.8	85
27	MEF2 negatively regulates learning-induced structural plasticity and memory formation. *Nature Neuroscience*, **2012**, 15, 1255-64	25.5	96
26	FoxO6 regulates memory consolidation and synaptic function. *Genes and Development*, **2012**, 26, 2780-801	12.6	96
25	Maze training in mice induces MRI-detectable brain shape changes specific to the type of learning. *NeuroImage*, **2011**, 54, 2086-95	7.9	236
24	Posttraining ablation of adult-generated neurons degrades previously acquired memories. *Journal of Neuroscience*, **2011**, 31, 15113-27	6.6	140
23	Upregulation of CREB-mediated transcription enhances both short- and long-term memory. *Journal of Neuroscience*, **2011**, 31, 8786-802	6.6	178
22	Increasing CREB function in the CA1 region of dorsal hippocampus rescues the spatial memory deficits in a mouse model of AlzheimerЂ disease. *Neuropsychopharmacology*, **2011**, 36, 2169-86	8.7	75
21	Stimulation of entorhinal cortex promotes adult neurogenesis and facilitates spatial memory. *Journal of Neuroscience*, **2011**, 31, 13469-84	6.6	279
20	Spine growth in the anterior cingulate cortex is necessary for the consolidation of contextual fear memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8456-60	11.5	127
19	Dorsal hippocampal CREB is both necessary and sufficient for spatial memory. *Learning and Memory* , **2010**, 17, 280-3	2.8	74
18	Continuing the search for the engram: examining the mechanism of fear memories. *Journal of Psychiatry and Neuroscience*, **2010**, 35, 221-8	4.5	79
17	Development and validation of a sensitive entropy-based measure for the water maze. *Frontiers in Integrative Neuroscience*, **2009**, 3, 33	3.2	14
16	Selective erasure of a fear memory. *Science*, **2009**, 323, 1492-6	33.3	377
15	Increasing CREB in the auditory thalamus enhances memory and generalization of auditory conditioned fear. *Learning and Memory*, **2008**, 15, 443-53	2.8	86
14	Neuronal competition and selection during memory formation. *Science*, **2007**, 316, 457-60	33.3	466
13	CREB: A Cornerstone of Memory Consolidation? **2005**, 359-380		1
12	CREB, synapses and memory disorders: past progress and future challenges. *CNS and Neurological Disorders*, **2005**, 4, 481-97		144
11	WhatЂ right with my mouse model? New insights into the molecular and cellular basis of cognition from mouse models of Rubinstein-Taybi Syndrome. *Learning and Memory*, **2005**, 12, 80-3	2.8	26

10	The nucleus accumbens is not critically involved in mediating the effects of a safety signal on behavior. *Neuropsychopharmacology*, **2005**, 30, 17-26	8.7	52
9	Consolidation of CS and US representations in associative fear conditioning. *Hippocampus*, **2004**, 14, 557-69	3.5	113
8	Memory reconsolidation and extinction have distinct temporal and biochemical signatures. *Journal of Neuroscience*, **2004**, 24, 4787-95	6.6	883
7	MAPK, CREB and zif268 are all required for the consolidation of recognition memory. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2003**, 358, 805-14	5.8	245
6	CREB required for the stability of new and reactivated fear memories. *Nature Neuroscience*, **2002**, 5, 348-55	25.5	494
5	Chapter XIII CREB, plasticity and memory. *Handbook of Chemical Neuroanatomy*, **2002**, 19, 329-361		1
4	Long-term memory is facilitated by cAMP response element-binding protein overexpression in the amygdala. *Journal of Neuroscience*, **2001**, 21, 2404-12	6.6	364
3	Computer-assisted behavioral assessment of Pavlovian fear conditioning in mice. *Learning and Memory*, **2000**, 7, 58-72	2.8	129
2	Activation of amygdala cholecystokininB receptors potentiates the acoustic startle response in the rat. *Journal of Neuroscience*, **1997**, 17, 1838-47	6.6	69
1	Neuropeptide Y: intraaccumbens injections produce a place preference that is blocked by cis-flupenthixol. *Pharmacology Biochemistry and Behavior*, **1993**, 46, 543-52	3.9	79