

Richard F Thompson

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149
papers

17,064
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130
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153
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18,088
ext. citations

6.4
avg, IF

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L-index

#	Paper	IF	Citations
149	Habituation: a model phenomenon for the study of neuronal substrates of behavior. <i>Psychological Review</i> , 1966 , 73, 16-43	6.3	1958
148	Habituation: a dual-process theory. <i>Psychological Review</i> , 1970 , 77, 419-50	6.3	1620
147	Habituation revisited: an updated and revised description of the behavioral characteristics of habituation. <i>Neurobiology of Learning and Memory</i> , 2009 , 92, 135-8	3.1	864
146	Hippocampus and trace conditioning of the rabbit's classically conditioned nictitating membrane response.. <i>Behavioral Neuroscience</i> , 1986 , 100, 729-744	2.1	651
145	Neural substrates of eyeblink conditioning: acquisition and retention. <i>Learning and Memory</i> , 2003 , 10, 427-55	2.8	482
144	Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. I. The hippocampus. <i>Brain Research</i> , 1978 , 145, 323-46	3.7	460
143	Hippocampectomy impairs the memory of recently, but not remotely, acquired trace eyeblink conditioned responses.. <i>Behavioral Neuroscience</i> , 1995 , 109, 195-203	2.1	442
142	Progesterone receptors: form and function in brain. <i>Frontiers in Neuroendocrinology</i> , 2008 , 29, 313-39	8.9	434
141	Importance of the intracellular domain of NR2 subunits for NMDA receptor function in vivo. <i>Cell</i> , 1998 , 92, 279-89	56.2	398
140	Behavioral stress impairs long-term potentiation in rodent hippocampus. <i>Behavioral and Neural Biology</i> , 1987 , 48, 138-49		393
139	Deficient cerebellar long-term depression, impaired eyeblink conditioning, and normal motor coordination in GFAP mutant mice. <i>Neuron</i> , 1996 , 16, 587-99	13.9	390
138	The search for the engram.. <i>American Psychologist</i> , 1976 , 31, 209-227	9.5	390
137	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC gamma mutant mice. <i>Cell</i> , 1995 , 83, 1233-42	56.2	384
136	Effects of lesions of cerebellar nuclei on conditioned behavioral and hippocampal neuronal responses. <i>Brain Research</i> , 1984 , 291, 125-36	3.7	339
135	Lesions of the inferior olivary complex cause extinction of the classically conditioned eyeblink response. <i>Brain Research</i> , 1985 , 359, 120-30	3.7	330
134	The amygdala modulates prefrontal cortex activity relative to conditioned fear. <i>Nature</i> , 1999 , 402, 294-6	50.4	311
133	Classical conditioning in rabbits using pontine nucleus stimulation as a conditioned stimulus and inferior olive stimulation as an unconditioned stimulus. <i>Synapse</i> , 1989 , 3, 225-33	2.4	295

132	In search of memory traces. <i>Annual Review of Psychology</i> , 2005 , 56, 1-23	26.1	294
131	Habituation: a history. <i>Neurobiology of Learning and Memory</i> , 2009 , 92, 127-34	3.1	246
130	Mammalian brain substrates of aversive classical conditioning. <i>Annual Review of Psychology</i> , 1993 , 44, 317-42	26.1	244
129	Inhibitory cerebello-olivary projections and blocking effect in classical conditioning. <i>Science</i> , 1998 , 279, 570-3	33.3	230
128	Allopregnanolone reverses neurogenic and cognitive deficits in mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6498-503	11.5	220
127	The engram found? Role of the cerebellum in classical conditioning of nictitating membrane and eyelid responses. <i>Bulletin of the Psychonomic Society</i> , 1981 , 18, 103-105		210
126	Modeling the neural substrates of associative learning and memory: A computational approach.. <i>Psychological Review</i> , 1987 , 94, 176-191	6.3	192
125	Trace conditioning: abolished by cerebellar nuclear lesions but not lateral cerebellar cortex aspirations. <i>Brain Research</i> , 1985 , 348, 249-60	3.7	163
124	Classical conditioning of the rabbit eyelid response with a mossy-fiber stimulation CS: I. Pontine nuclei and middle cerebellar peduncle stimulation.. <i>Behavioral Neuroscience</i> , 1986 , 100, 878-887	2.1	159
123	Ipsilateral cerebellar lesions prevent learning of the classically conditioned nictitating membrane/eyelid response. <i>Brain Research</i> , 1982 , 242, 190-3	3.7	136
122	Associative learning. <i>International Review of Neurobiology</i> , 1997 , 41, 151-89	4.4	129
121	Increased responsivity of dentate granule cells during nictitating membrane response conditioning in rabbit. <i>Behavioural Brain Research</i> , 1984 , 12, 145-54	3.4	124
120	Superior cerebellar peduncle lesions selectively abolish the ipsilateral classically conditioned nictitating membrane/eyelid response of the rabbit. <i>Brain Research</i> , 1982 , 244, 347-50	3.7	124
119	Long-term potentiation is associated with increased [3H]AMPA binding in rat hippocampus. <i>Brain Research</i> , 1992 , 573, 228-34	3.7	123
118	Unpredictable and uncontrollable stress impairs neuronal plasticity in the rat hippocampus. <i>Brain Research Bulletin</i> , 1990 , 24, 663-7	3.9	115
117	Acute stress impairs (or induces) synaptic long-term potentiation (LTP) but does not affect paired-pulse facilitation in the stratum radiatum of rat hippocampus. <i>Synapse</i> , 1992 , 11, 262-5	2.4	113
116	Mechanisms of efferent neuronal control of the reflex nictitating membrane response in rabbit (<i>Oryctolagus cuniculus</i>). <i>Journal of Comparative and Physiological Psychology</i> , 1976 , 90, 411-23		113
115	Cerebellar cortical inhibition and classical eyeblink conditioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1592-7	11.5	112

114	Effect of the interstimulus (CS-UCS) interval on hippocampal unit activity during classical conditioning of the nictitating membrane response of the rabbit (<i>Oryctolagus cuniculus</i>). <i>Journal of Comparative and Physiological Psychology</i> , 1980 , 94, 201-15		102
113	Allopregnanolone restores hippocampal-dependent learning and memory and neural progenitor survival in aging 3xTgAD and nonTg mice. <i>Neurobiology of Aging</i> , 2012 , 33, 1493-506	5.6	98
112	Hippocampal lesions impair contextual fear conditioning in two strains of mice.. <i>Behavioral Neuroscience</i> , 1996 , 110, 1177-1180	2.1	98
111	Concomitant classical conditioning of the rabbit nictitating membrane and eyelid responses: correlations and implications. <i>Physiology and Behavior</i> , 1982 , 28, 769-75	3.5	97
110	Parallel augmentation of hippocampal long-term potentiation, theta rhythm, and contextual fear conditioning in water-deprived rats.. <i>Behavioral Neuroscience</i> , 1994 , 108, 44-56	2.1	95
109	Hippocampal unit-behavior correlations during classical conditioning. <i>Brain Research</i> , 1980 , 193, 229-48	3.7	94
108	Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. II: Septum and mammillary bodies. <i>Brain Research</i> , 1978 , 156, 293-314	3.7	90
107	The effect of temporal single alternation on learned increases in hippocampal unit activity in classical conditioning of the rabbit nictitating membrane response. <i>Physiological Psychology</i> , 1979 , 7, 345-351		89
106	Reciprocal anatomical connections between hippocampus and subiculum in the rabbit evidence for subicular innervation of regio superior. <i>Brain Research</i> , 1980 , 183, 265-76	3.7	88
105	Cerebellar stimulation as an unconditioned stimulus in classical conditioning.. <i>Behavioral Neuroscience</i> , 1992 , 106, 739-750	2.1	86
104	Selective increase of AMPA binding to the AMPA/quisqualate receptor in the hippocampus in response to acute stress. <i>Brain Research</i> , 1991 , 559, 168-71	3.7	82
103	Classical conditioning in 3-, 30-, and 45-month-old rabbits: behavioral learning and hippocampal unit activity. <i>Neurobiology of Aging</i> , 1987 , 8, 101-8	5.6	79
102	Time-dependent blockade of STP and LTP in hippocampal slices following acute stress in mice. <i>Neuroscience Letters</i> , 1997 , 233, 41-4	3.3	77
101	The nature of reinforcement in cerebellar learning. <i>Neurobiology of Learning and Memory</i> , 1998 , 70, 150-76		76
100	Cerebellar brain-derived neurotrophic factor-TrkB defect associated with impairment of eyeblink conditioning in Stargazer mutant mice. <i>Journal of Neuroscience</i> , 1998 , 18, 6990-9	6.6	74
99	Tone-induced changes in excitability of abducens motoneurons and of the reflex path of nictitating membrane response in rabbit (<i>Oryctolagus cuniculus</i>). <i>Journal of Comparative and Physiological Psychology</i> , 1976 , 90, 424-34		72
98	Evidence of plasticity in the pontocerebellar conditioned stimulus pathway during classical conditioning of the eyeblink response in the rabbit.. <i>Behavioral Neuroscience</i> , 1998 , 112, 267-285	2.1	69
97	Effects of stimulus frequency and intensity on habituation and sensitization in acute spinal cat. <i>Physiology and Behavior</i> , 1969 , 4, 383-388	3.5	68

96	Classical conditioning selectively increases AMPA receptor binding in rabbit hippocampus. <i>Brain Research</i> , 1991 , 559, 331-6	3.7	66
95	Neuronal responses of the rabbit brainstem during performance of the classically conditioned nictitating membrane (NM)/eyelid response. <i>Brain Research</i> , 1983 , 271, 73-88	3.7	66
94	Effects of ipsilateral rostral pontine reticular lesions on retention of classically conditioned nictitating membrane and eyelid responses. <i>Physiological Psychology</i> , 1981 , 9, 335-339		64
93	Neuronal plasticity recorded from cat hippocampus during classical conditioning. <i>Brain Research</i> , 1979 , 163, 339-43	3.7	63
92	ROLE OF AUDITORY CORTEX IN REFLEX HEAD ORIENTATION BY CATS TO AUDITORY STIMULI. <i>Journal of Comparative and Physiological Psychology</i> , 1963 , 56, 996-1002		60
91	Learning-dependent neuronal responses recorded from limbic system brain structures during classical conditioning. <i>Physiological Psychology</i> , 1980 , 8, 155-167		59
90	Brain mechanisms of extinction of the classically conditioned eyeblink response. <i>Learning and Memory</i> , 2004 , 11, 517-24	2.8	58
89	Conditioning using a cerebral cortical conditioned stimulus is dependent on the cerebellum and brain stem circuitry.. <i>Behavioral Neuroscience</i> , 1992 , 106, 509-517	2.1	58
88	Long-term storage of an associative memory trace in the cerebellum. <i>Behavioral Neuroscience</i> , 2005 , 119, 526-37	2.1	57
87	Are memory traces localized or distributed?. <i>Neuropsychologia</i> , 1991 , 29, 571-82	3.2	56
86	A Dual-Process Theory of Habituation: Theory and Behavior 1973 , 239-271		56
85	Lidocaine infusion in a critical region of cerebellum completely prevents learning of the conditioned eyeblink response.. <i>Behavioral Neuroscience</i> , 1993 , 107, 882-886	2.1	55
84	Bilateral lesions of the interpositus nucleus completely prevent eyeblink conditioning in Purkinje cell-degeneration mutant mice.. <i>Behavioral Neuroscience</i> , 1999 , 113, 204-210	2.1	53
83	Inactivation of brainstem motor nuclei blocks expression but not acquisition of the rabbit's classically conditioned eyeblink response.. <i>Behavioral Neuroscience</i> , 1996 , 110, 219-227	2.1	52
82	Locus coeruleus lesions and resistance to extinction of a classically conditioned response: involvement of the neocortex and hippocampus. <i>Brain Research</i> , 1982 , 245, 239-49	3.7	52
81	Classical conditioning of the rabbit eyelid response with mossy fiber stimulation as the conditioned stimulus. <i>Bulletin of the Psychonomic Society</i> , 1985 , 23, 245-248		51
80	Behavioral correlates of evoked activity recorded from association areas of the cerebral cortex. <i>Journal of Comparative and Physiological Psychology</i> , 1965 , 60, 329-39		48
79	Learning induces a CDC2-related protein kinase, KKIAMRE. <i>Journal of Neuroscience</i> , 1999 , 19, 9530-7	6.6	47

78	Classical conditioning of the eyelid response in rabbits as a model system for the study of brain mechanisms of learning and memory in aging. <i>Experimental Aging Research</i> , 1985 , 11, 109-22	1.7	46
77	Neuronal unit activity in the abducens nucleus during classical conditioning of the nictitating membrane response in the rabbit (<i>Oryctolagus cuniculus</i>). <i>Journal of Comparative and Physiological Psychology</i> , 1979 , 93, 595-609		46
76	Learning- and cerebellum-dependent neuronal activity in the lateral pontine nucleus.. <i>Behavioral Neuroscience</i> , 2000 , 114, 254-261	2.1	43
75	17beta-estradiol modifies stress-induced and age-related changes in hippocampal synaptic plasticity. <i>Behavioral Neuroscience</i> , 2008 , 122, 301-9	2.1	42
74	Habituation and sensitization of spinal interneuron activity in acute spinal cat. <i>Brain Research</i> , 1969 , 14, 521-5	3.7	41
73	A nonrecoverable learning deficit. <i>Physiological Psychology</i> , 1984 , 12, 103-110		40
72	Cerebellar cortical lesions and reacquisition in classical conditioning of the nictitating membrane response in rabbits. <i>Brain Research</i> , 1993 , 608, 67-77	3.7	39
71	The role of the cerebellar interpositus nucleus in short and long term memory for trace eyeblink conditioning. <i>Behavioral Neuroscience</i> , 2009 , 123, 54-61	2.1	37
70	Eye-blink conditioning is associated with changes in synaptic ultrastructure in the rabbit interpositus nuclei. <i>Learning and Memory</i> , 2007 , 14, 385-9	2.8	37
69	Projections from the auditory cortex to the pontine nuclei in the rabbit. <i>Behavioural Brain Research</i> , 1993 , 56, 23-30	3.4	37
68	Are eyeblink responses to tone in the decerebrate, decerebellate rabbit conditioned responses?. <i>Behavioural Brain Research</i> , 1991 , 44, 27-34	3.4	35
67	Role of the Hippocampus in Classical Conditioning of Aversive and Appetitive Behaviors 1986 , 203-239		35
66	Regulation of hippocampal synaptic plasticity by estrogen and progesterone. <i>Vitamins and Hormones</i> , 2010 , 82, 219-39	2.5	34
65	Neurobiological substrates of classical conditioning across the life span. <i>Annals of the New York Academy of Sciences</i> , 1990 , 608, 150-73; discussion 174-8	6.5	34
64	Inhibiting the expression of a classically conditioned behavior prevents its extinction. <i>Journal of Neuroscience</i> , 2003 , 23, 10577-84	6.6	33
63	Opioid antagonist eliminates the stress-induced impairment of long-term potentiation (LTP). <i>Brain Research</i> , 1990 , 506, 316-8	3.7	33
62	Neuronal substrates of simple associative learning: classical conditioning. <i>Trends in Neurosciences</i> , 1983 , 6, 270-275	13.3	33
61	Learning of a hippocampal-dependent conditioning task changes the binding properties of AMPA receptors in rabbit hippocampus. <i>Behavioral and Neural Biology</i> , 1992 , 58, 222-31		31

60	The Search for the Engram, II 1980 , 172-222		31
59	Delayed acquisition of eyeblink conditioning in aged F1 hybrid (Fischer-344 x Brown Norway) rats. <i>Neurobiology of Aging</i> , 1992 , 13, 319-23	5.6	30
58	Cerebellar lesions abolish an avoidance response in rabbit. <i>Behavioral and Neural Biology</i> , 1985 , 44, 221-7		30
57	Hippocampal cellular plasticity during extinction of classically conditioned nictitating membrane behavior. <i>Behavioural Brain Research</i> , 1982 , 4, 63-76	3.4	30
56	Classical conditioning with electrical stimulation of cerebellum as both conditioned and unconditioned stimulus.. <i>Behavioral Neuroscience</i> , 1996 , 110, 914-921	2.1	29
55	Impaired Eye-Blink Conditioning in waggler, a Mutant Mouse With Cerebellar BDNF Deficiency. <i>Learning and Memory</i> , 1998 , 5, 355-364	2.8	29
54	Molecular evidence for two-stage learning and partial laterality in eyeblink conditioning of mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5549-54	11.5	27
53	Classical conditioning of the hindlimb flexion reflex in the acute spinal cat. <i>Learning and Behavior</i> , 1967 , 8, 213-214		27
52	Extinction of a classically conditioned response: red nucleus and interpositus. <i>Journal of Neuroscience</i> , 2008 , 28, 2651-8	6.6	23
51	Auditory signal detection and decision processes in the nervous system. <i>Journal of Comparative and Physiological Psychology</i> , 1982 , 96, 328-31		23
50	Motor cortex lesions do not affect learning or performance of the eyeblink response in rabbits.. <i>Behavioral Neuroscience</i> , 1997 , 111, 727-738	2.1	21
49	Integrating Behavioral and Biological Models of Classical Conditioning. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 1989 , 109-156	1.4	21
48	Mechanisms of neuronal conditioning. <i>International Review of Neurobiology</i> , 2001 , 45, 313-37	4.4	20
47	Intracerebellar conditioning--Brogden and Gantt revisited. <i>Behavioural Brain Research</i> , 2000 , 110, 3-11	3.4	19
46	Interpositus lesion abolition of the eyeblink conditioned response is not due to effects on performance.. <i>Behavioral Neuroscience</i> , 1993 , 107, 530-532	2.1	18
45	Selective changes in AMPA receptors in rabbit cerebellum following classical conditioning of the eyelid-nictitating membrane response. <i>Brain Research</i> , 1998 , 803, 9-18	3.7	17
44	Prolonging the postcomplex spike pause speeds eyeblink conditioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16726-30	11.5	16
43	Stimulus generalization of habituation in spinal interneurons. <i>Physiology and Behavior</i> , 1972 , 8, 155-8	3.5	16

42	A Dual-Process Theory of Habituation: Neural Mechanisms 1973 , 175-205		15
41	Manipulation of Pituitary-Adrenal Activity Affects Neural Plasticity in Rodent Hippocampus. <i>Psychological Science</i> , 1990 , 1, 201-204	7.9	13
40	Localization and characterization of an essential associative memory trace in the mammalian brain. <i>Brain Research</i> , 2015 , 1621, 252-9	3.7	12
39	Essential neuronal pathways for reflex and conditioned response initiation in an intracerebellar stimulation paradigm and the impact of unconditioned stimulus preexposure on learning rate. <i>Neurobiology of Learning and Memory</i> , 1999 , 71, 167-93	3.1	12
38	Dependence of evoked cortical association responses on behavioral variables. <i>Learning and Behavior</i> , 1964 , 1, 153-154		12
37	Simultaneous behavioral and neural (cochlear nucleus) measurement during signal detection in the rabbit. <i>Perception & Psychophysics</i> , 1980 , 28, 504-13		11
36	Sensorimotor Learning and the Cerebellum. <i>Research Notes in Neural Computing</i> , 1991 , 381-396		11
35	Stimulation of the lateral septum is a more effective conditioned stimulus than stimulation of the medial septum during classical conditioning of the eye-blink response.. <i>Behavioral Neuroscience</i> , 1989 , 103, 206-208	2.1	9
34	Unit activity recorded from the globus pallidus during classical conditioning of the rabbit nictitating membrane response. <i>Brain Research</i> , 1985 , 332, 219-29	3.7	9
33	Habituation and dishabituation to dorsal root stimulation in the isolated frog spinal cord. <i>Behavioral Biology</i> , 1972 , 7, 37-45		9
32	Timing of conditioned responses utilizing electrical stimulation in the region of the interpositus nucleus as a CS. <i>Integrative Psychological and Behavioral Science</i> , 2004 , 39, 83-94		8
31	Cochlear nucleus, inferior colliculus, and medial geniculate responses during the behavioral detection of threshold-level auditory stimuli in the rabbit. <i>Journal of the Acoustical Society of America</i> , 1985 , 77, 2111-27	2.2	8
30	Cortical control of specific and nonspecific sensory projections to the cerebral cortex. <i>Learning and Behavior</i> , 1966 , 4, 93-94		8
29	Individual differences in emergence neophobia predict magnitude of perforant-path long-term potentiation (LTP) and plasma corticosterone levels in rats. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1993 , 21, 2-10		8
28	Alterations in spontaneous miniature potential activity during habituation of a vertebrate monosynaptic pathway. <i>Brain Research</i> , 1980 , 189, 377-90	3.7	7
27	Effects of Paired and Unpaired Eye-Blink Conditioning on Purkinje Cell Morphology. <i>Learning and Memory</i> , 1999 , 6, 128-137	2.8	6
26	Comment on "Cerebellar LTD and Learning-Dependent Timing of Conditioned Eyelid Responses". <i>Science</i> , 2004 , 304, 211b-211b	33.3	5
25	Habituation of the pyramidal response in unanesthetized cat. <i>Physiology and Behavior</i> , 1972 , 8, 201-5	3.5	5

24	Inverse relation between evoked cortical association responses and behavioral orienting to repeated auditory stimuli. <i>Learning and Behavior</i> , 1964 , 1, 399-400		5
23	Spinal Plasticity 2001 , 1-11		5
22	Motor learning and synaptic plasticity in the cerebellum. <i>Behavioral and Brain Sciences</i> , 1996 , 19, 475-477	0.9	4
21	Response properties of single units in an association area of the kitten neocortex. <i>Physiology and Behavior</i> , 1976 , 16, 151-61	3.5	4
20	Sensory preconditioning of cats in a shuttle box avoidance situation. <i>Learning and Behavior</i> , 1968 , 13, 37-38		4
19	Multiple memory mechanisms in the cerebellum?. <i>Neuron</i> , 2006 , 51, 680-2	13.9	3
18	Learning and Memory: Basic Mechanisms 2004 , 499-574		3
17	Brain Mechanisms of Learning 1980 , 221-239		3
16	Classical conditioning has much to do with LTP. <i>Behavioral and Brain Sciences</i> , 1997 , 20, 632-633	0.9	2
15	Neural unit activity in an anterior nonspecific cortical area during classical conditioning of the rabbit's nictitating membrane response. <i>Bulletin of the Psychonomic Society</i> , 1980 , 15, 61-64		2
14	Discovering the Brain Substrates of Eyeblink Classical Conditioning 2002 , 17-49		2
13	THE SEARCH FOR THE ENGRAM 1986 , 3-52		2
12	Prologue to Habituation: A History of Habituation 2014 , 77-94		1
11	Learning and Memory 2014 , 591-637		1
10	Learning and memory: basic principles and model systems 2014 , 22-35		1
9	Neurobiological Foundations of Stress 2006 , 37-65		1
8	Model systems versus neuroethological approach to hippocampal function. <i>Behavioral and Brain Sciences</i> , 1979 , 2, 517-518	0.9	1
7	Effects of stimulation of frontal cortex on neuronal activity in association and sensory areas of the cortex. <i>Learning and Behavior</i> , 1968 , 12, 167-168		1

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- 4 Hippocampal activity as a temporal template for learned behavior. *Behavioral and Brain Sciences*, **1979**, 2, 348-348 0.9
- 3 Biological Models of Associative Learning 499
- 2 Learning and Memory, Neural Mechanisms **1989**, 8-10
- 1 Learning and Memory **1989**, 5-7