

# Richard F Thompson

## List of Publications by Year in descending order

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146  
papers

19,656  
citations

19636

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153  
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153  
docs citations

153  
times ranked

8889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Habituation: A model phenomenon for the study of neuronal substrates of behavior.. Psychological Review, 1966, 73, 16-43.	2.7	2,294
2	Habituation: A dual-process theory.. Psychological Review, 1970, 77, 419-450.	2.7	1,950
3	Habituation revisited: An updated and revised description of the behavioral characteristics of habituation. Neurobiology of Learning and Memory, 2009, 92, 135-138.	1.0	1,167
4	Hippocampus and trace conditioning of the rabbit's classically conditioned nictitating membrane response.. Behavioral Neuroscience, 1986, 100, 729-744.	0.6	680
5	Neural Substrates of Eyeblink Conditioning: Acquisition and Retention. Learning and Memory, 2003, 10, 427-455.	0.5	539
6	Progesterone receptors: Form and function in brain. Frontiers in Neuroendocrinology, 2008, 29, 313-339.	2.5	531
7	Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. I. The hippocampus. Brain Research, 1978, 145, 323-346.	1.1	530
8	Hippocampectomy impairs the memory of recently, but not remotely, acquired trace eyeblink conditioned responses.. Behavioral Neuroscience, 1995, 109, 195-203.	0.6	475
9	Behavioral stress impairs long-term potentiation in rodent hippocampus. Behavioral and Neural Biology, 1987, 48, 138-149.	2.3	432
10	Importance of the Intracellular Domain of NR2 Subunits for NMDA Receptor Function In Vivo. Cell, 1998, 92, 279-289.	13.5	419
11	Deficient Cerebellar Long-Term Depression, Impaired Eyeblink Conditioning, and Normal Motor Coordination in GFAP Mutant Mice. Neuron, 1996, 16, 587-599.	3.8	415
12	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC $\delta$ mutant mice. Cell, 1995, 83, 1233-1242.	13.5	410
13	The search for the engram.. American Psychologist, 1976, 31, 209-227.	3.8	408
14	Effects of lesions of cerebellar nuclei on conditioned behavioral and hippocampal neuronal responses. Brain Research, 1984, 291, 125-136.	1.1	376
15	Lesions of the inferior olivary complex cause extinction of the classically conditioned eyeblink response. Brain Research, 1985, 359, 120-130.	1.1	355
16	The amygdala modulates prefrontal cortex activity relative to conditioned fear. Nature, 1999, 402, 294-296.	13.7	347
17	Habituation: A history. Neurobiology of Learning and Memory, 2009, 92, 127-134.	1.0	337
18	Classical conditioning in rabbits using pontine nucleus stimulation as a conditioned stimulus and inferior olive stimulation as an unconditioned stimulus. Synapse, 1989, 3, 225-233.	0.6	324

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19	In Search of Memory Traces. Annual Review of Psychology, 2005, 56, 1-23.	9.9	323
20	Mammalian Brain Substrates of Aversive Classical Conditioning. Annual Review of Psychology, 1993, 44, 317-342.	9.9	272
21	The engram found? Role of the cerebellum in classical conditioning of nictitating membrane and eyelid responses. Bulletin of the Psychonomic Society, 1981, 18, 103-105.	0.2	255
22	Inhibitory Cerebello-Olivary Projections and Blocking Effect in Classical Conditioning. Science, 1998, 279, 570-573.	6.0	254
23	Allopregnanolone reverses neurogenic and cognitive deficits in mouse model of Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6498-6503.	3.3	241
24	Modeling the neural substrates of associative learning and memory: A computational approach.. Psychological Review, 1987, 94, 176-191.	2.7	218
25	Trace conditioning: Abolished by cerebellar nuclear lesions but not lateral cerebellar cortex aspirations. Brain Research, 1985, 348, 249-260.	1.1	178
26	Classical conditioning of the rabbit eyelid response with a mossy-fiber stimulation CS: I. Pontine nuclei and middle cerebellar peduncle stimulation.. Behavioral Neuroscience, 1986, 100, 878-887.	0.6	166
27	Ipsilateral cerebellar lesions prevent learning of the classically conditioned nictitating membrane/eyelid response. Brain Research, 1982, 242, 190-193.	1.1	158
28	Superior cerebellar peduncle lesions selectively abolish the ipsilateral classically conditioned nictitating membrane/eyelid response of the rabbit. Brain Research, 1982, 244, 347-350.	1.1	141
29	Increased responsivity of dentate granule cells during nictitating membrane response conditioning in rabbit. Behavioural Brain Research, 1984, 12, 145-154.	1.2	133
30	Associative Learning. International Review of Neurobiology, 1997, 41, 151-189.	0.9	132
31	Long-term potentiation is associated with increased [3H]AMPA binding in rat hippocampus. Brain Research, 1992, 573, 228-234.	1.1	131
32	Mechanisms of efferent neuronal control of the reflex nictitating membrane response in rabbit (Oryctolagus cuniculus).. Journal of Comparative and Physiological Psychology, 1976, 90, 411-423.	1.8	130
33	Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. II: Septum and mammillary bodies. Brain Research, 1978, 156, 293-314.	1.1	129
34	Allopregnanolone restores hippocampal-dependent learning and memory and neural progenitor survival in aging 3xTgAD and nonTg mice. Neurobiology of Aging, 2012, 33, 1493-1506.	1.5	128
35	Cerebellar cortical inhibition and classical eyeblink conditioning. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1592-1597.	3.3	125
36	Unpredictable and uncontrollable stress impairs neuronal plasticity in the rat hippocampus. Brain Research Bulletin, 1990, 24, 663-667.	1.4	120

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37	Effect of the interstimulus (CSâ€“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, 201-215.	1.8	116
38	Concomitant classical conditioning of the rabbit nictitating membrane and eyelid responses: Correlations and implications. <i>Physiology and Behavior</i> , 1982, 28, 769-775.	1.0	115
39	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, 262-265.	0.6	114
40	A Dual-Process Theory of Habituation: Theory and Behavior. , 1973, , 239-271.		108
41	Hippocampal lesions impair contextual fear conditioning in two strains of mice.. <i>Behavioral Neuroscience</i> , 1996, 110, 1177-1180.	0.6	107
42	Hippocampal unit-behavior correlations during classical conditioning. <i>Brain Research</i> , 1980, 193, 229-248.	1.1	106
43	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.	0.8	99
44	Reciprocal anatomical connections between hippocampus and subiculum in the rabbit: Evidence for subicular innervation of regio superior. <i>Brain Research</i> , 1980, 183, 265-276.	1.1	97
45	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.	0.6	97
46	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, 424-434.	1.8	92
47	Classical conditioning in 3-, 30-, and 45-month-old rabbits: Behavioral learning and hippocampal unit activity. <i>Neurobiology of Aging</i> , 1987, 8, 101-108.	1.5	91
48	Cerebellar stimulation as an unconditioned stimulus in classical conditioning.. <i>Behavioral Neuroscience</i> , 1992, 106, 739-750.	0.6	87
49	Selective increase of AMPA binding to the AMPA/quisqualate receptor in the hippocampus in response to acute stress. <i>Brain Research</i> , 1991, 559, 168-171.	1.1	85
50	The Nature of Reinforcement in Cerebellar Learning. <i>Neurobiology of Learning and Memory</i> , 1998, 70, 150-176.	1.0	85
51	Effects of stimulus frequency and intensity on habituation and sensitization in acute spinal cat. <i>Physiology and Behavior</i> , 1969, 4, 383-388.	1.0	81
52	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.	1.1	79
53	Time-dependent blockade of STP and LTP in hippocampal slices following acute stress in mice. <i>Neuroscience Letters</i> , 1997, 233, 41-44.	1.0	79
54	Cerebellar Brain-Derived Neurotrophic Factorâ€“TrkB Defect Associated with Impairment of Eyeblink Conditioning in <i>Stargazer</i> Mutant Mice. <i>Journal of Neuroscience</i> , 1998, 18, 6990-6999.	1.7	78

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55	Classical conditioning selectively increases AMPA receptor binding in rabbit hippocampus. <i>Brain Research</i> , 1991, 559, 331-336.	1.1	77
56	Neuronal plasticity recorded from cat hippocampus during classical conditioning. <i>Brain Research</i> , 1979, 163, 339-343.	1.1	74
57	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.	1.8	73
58	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.	0.8	73
59	Learning-dependent neuronal responses recorded from limbic system brain structures during classical conditioning. <i>Physiological Psychology</i> , 1980, 8, 155-167.	0.8	72
60	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.	0.6	71
61	Brain Mechanisms of Extinction of the Classically Conditioned Eyeblink Response. <i>Learning and Memory</i> , 2004, 11, 517-524.	0.5	67
62	Locus coeruleus lesions and resistance to extinction of a classically conditioned response: Involvement of the neocortex and hippocampus. <i>Brain Research</i> , 1982, 245, 239-249.	1.1	63
63	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.	1.8	61
64	Are memory traces localized or distributed?. <i>Neuropsychologia</i> , 1991, 29, 571-582.	0.7	61
65	Long-Term Storage of an Associative Memory Trace in the Cerebellum. <i>Behavioral Neuroscience</i> , 2005, 119, 526-537.	0.6	60
66	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.	0.2	59
67	Conditioning using a cerebral cortical conditioned stimulus is dependent on the cerebellum and brain stem circuitry. <i>Behavioral Neuroscience</i> , 1992, 106, 509-517.	0.6	59
68	Lidocaine infusion in a critical region of cerebellum completely prevents learning of the conditioned eyeblink response. <i>Behavioral Neuroscience</i> , 1993, 107, 882-886.	0.6	58
69	Bilateral lesions of the interpositus nucleus completely prevent eyeblink conditioning in Purkinje cell-degeneration mutant mice. <i>Behavioral Neuroscience</i> , 1999, 113, 204-210.	0.6	55
70	Role of the Hippocampus in Classical Conditioning of Aversive and Appetitive Behaviors. , 1986, , 203-239.		54
71	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.	0.6	54
72	Behavioral correlates of evoked activity recorded from association areas of the cerebral cortex. <i>Journal of Comparative and Physiological Psychology</i> , 1965, 60, 329-339.	1.8	53

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73	Learning Induces a CDC2-Related Protein Kinase, KKIAMRE. <i>Journal of Neuroscience</i> , 1999, 19, 9530-9537.	1.7	53
74	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, 109-122.	0.6	52
75	A nonrecoverable learning deficit. <i>Physiological Psychology</i> , 1984, 12, 103-110.	0.8	50
76	Habituation and sensitization of spinal interneuron activity in acute spinal cat. <i>Brain Research</i> , 1969, 14, 521-525.	1.1	48
77	Neuronal substrates of simple associative learning: classical conditioning. <i>Trends in Neurosciences</i> , 1983, 6, 270-275.	4.2	47
78	17 $\beta$ -estradiol modifies stress-induced and age-related changes in hippocampal synaptic plasticity.. <i>Behavioral Neuroscience</i> , 2008, 122, 301-309.	0.6	47
79	Cerebellar cortical lesions and reacquisition in classical conditioning of the nictitating membrane response in rabbits. <i>Brain Research</i> , 1993, 608, 67-77.	1.1	46
80	Learning- and cerebellum-dependent neuronal activity in the lateral pontine nucleus.. <i>Behavioral Neuroscience</i> , 2000, 114, 254-261.	0.6	46
81	Eye-blink conditioning is associated with changes in synaptic ultrastructure in the rabbit interpositus nuclei. <i>Learning and Memory</i> , 2007, 14, 385-389.	0.5	45
82	Projections from the auditory cortex to the pontine nuclei in the rabbit. <i>Behavioural Brain Research</i> , 1993, 56, 23-30.	1.2	43
83	Are eyeblink responses to tone in the decerebrate, decerebellate rabbit conditioned responses?. <i>Behavioural Brain Research</i> , 1991, 44, 27-34.	1.2	41
84	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.	0.6	41
85	Classical conditioning of the hindlimb flexion reflex in the acute spinal cat. <i>Learning and Behavior</i> , 1967, 8, 213-214.	0.6	40
86	Regulation of Hippocampal Synaptic Plasticity by Estrogen and Progesterone. <i>Vitamins and Hormones</i> , 2010, 82, 219-239.	0.7	40
87	Impaired Eye-Blink Conditioning in <i>wagglers</i> , a Mutant Mouse With Cerebellar BDNF Deficiency. <i>Learning and Memory</i> , 1998, 5, 355-364.	0.5	40
88	Hippocampal cellular plasticity during extinction of classically conditioned nictitating membrane behavior. <i>Behavioural Brain Research</i> , 1982, 4, 63-76.	1.2	39
89	Neurobiological Substrates of Classical Conditioning across the Life Span. <i>Annals of the New York Academy of Sciences</i> , 1990, 608, 150-178.	1.8	39
90	Integrating Behavioral and Biological Models of Classical Conditioning. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 1989, , 109-156.	0.5	37

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91	Inhibiting the Expression of a Classically Conditioned Behavior Prevents Its Extinction. <i>Journal of Neuroscience</i> , 2003, 23, 10577-10584.	1.7	36
92	The Search for the Engram, II. , 1980, , 172-222.		36
93	A Dual-Process Theory of Habituation: Neural Mechanisms. , 1973, , 175-205.		36
94	Cerebellar lesions abolish an avoidance response in rabbit. <i>Behavioral and Neural Biology</i> , 1985, 44, 221-227.	2.3	35
95	Opioid antagonist eliminates the stress-induced impairment of long-term potentiation (LTP). <i>Brain Research</i> , 1990, 506, 316-318.	1.1	34
96	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, 222-231.	2.3	34
97	Classical conditioning with electrical stimulation of cerebellum as both conditioned and unconditioned stimulus.. <i>Behavioral Neuroscience</i> , 1996, 110, 914-921.	0.6	31
98	Auditory signal detection and decision processes in the nervous system.. <i>Journal of Comparative and Physiological Psychology</i> , 1982, 96, 328-331.	1.8	30
99	Delayed acquisition of eyeblink conditioning in aged F1 hybrid (Fischer-344 Å— brown Norway) rats. <i>Neurobiology of Aging</i> , 1992, 13, 319-323.	1.5	30
100	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, 5549-5554.	3.3	29
101	Extinction of a Classically Conditioned Response: Red Nucleus and Interpositus. <i>Journal of Neuroscience</i> , 2008, 28, 2651-2658.	1.7	25
102	Motor cortex lesions do not affect learning or performance of the eyeblink response in rabbits.. <i>Behavioral Neuroscience</i> , 1997, 111, 727-738.	0.6	24
103	Intracerebellar conditioning â€” Brogden and Gantt revisited. <i>Behavioural Brain Research</i> , 2000, 110, 3-11.	1.2	24
104	Mechanisms of neuronal conditioning. <i>International Review of Neurobiology</i> , 2001, 45, 313-337.	0.9	23
105	Stimulus generalization of habituation in spinal interneurons. <i>Physiology and Behavior</i> , 1972, 8, 155-158.	1.0	20
106	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.	1.1	20
107	Interpositus lesion abolition of the eyeblink conditioned response is not due to effects on performance.. <i>Behavioral Neuroscience</i> , 1993, 107, 530-532.	0.6	20
108	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, 16726-16730.	3.3	17

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109	Simultaneous behavioral and neural (cochlear nucleus) measurement during signal detection in the rabbit. <i>Perception &amp; Psychophysics</i> , 1980, 28, 504-513.	2.3	16
110	Sensorimotor Learning and the Cerebellum. <i>Research Notes in Neural Computing</i> , 1991, , 381-396.	0.1	16
111	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, 2111-2127.	0.5	15
112	Manipulation of Pituitary-Adrenal Activity Affects Neural Plasticity in Rodent Hippocampus. <i>Psychological Science</i> , 1990, 1, 201-204.	1.8	15
113	Dependence of evoked cortical association responses on behavioral variables. <i>Learning and Behavior</i> , 1964, 1, 153-154.	0.6	14
114	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, 167-193.	1.0	13
115	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.	1.2	13
116	Habituation and dishabituation to dorsal root stimulation in the isolated frog spinal cord. <i>Behavioral Biology</i> , 1972, 7, 37-45.	2.3	12
117	Localization and characterization of an essential associative memory trace in the mammalian brain. <i>Brain Research</i> , 2015, 1621, 252-259.	1.1	12
118	Unit activity recorded from the globus pallidus during classical conditioning of the rabbit nictitating membrane response. <i>Brain Research</i> , 1985, 332, 219-229.	1.1	11
119	<i>Learning and Memory</i> . , 2014, , 591-637.		10
120	Effects of Paired and Unpaired Eye-Blink Conditioning on Purkinje Cell Morphology. <i>Learning and Memory</i> , 1999, 6, 128-137.	0.5	10
121	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.	0.6	9
122	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.	0.3	9
123	Cortical control of specific and nonspecific sensory projections to the cerebral cortex. <i>Learning and Behavior</i> , 1966, 4, 93-94.	0.6	8
124	Habituation of the pyramidal response in unanesthetized cat. <i>Physiology and Behavior</i> , 1972, 8, 201-205.	1.0	8
125	Alterations in spontaneous miniature potential activity during habituation of a vertebrate monosynaptic pathway. <i>Brain Research</i> , 1980, 189, 377-390.	1.1	8
126	Comment on "Cerebellar LTD and Learning-Dependent Timing of Conditioned Eyelid Responses". <i>Science</i> , 2004, 304, 2111b-2111b.	6.0	8



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127	Brain Mechanisms of Learning. , 1980, , 221-239.		8
128	Spinal Plasticity. , 2001, , 1-11.		6
129	Inverse relation between evoked cortical association responses and behavioral orienting to repeated auditory stimuli. Learning and Behavior, 1964, 1, 399-400.	0.6	5
130	Discovering the Brain Substrates of Eyeblink Classical Conditioning. , 2002, , 17-49.		5
131	Sensory preconditioning of cats in a shuttle box avoidance situation. Learning and Behavior, 1968, 13, 37-38.	0.6	4
132	Response properties of single units in an association area of the kitten neocortex. Physiology and Behavior, 1976, 16, 151-161.	1.0	4
133	Motor learning and synaptic plasticity in the cerebellum. Behavioral and Brain Sciences, 1996, 19, 475-477.	0.4	4
134	Learning and Memory: Basic Mechanisms. , 2004, , 499-574.		4
135	Multiple Memory Mechanisms in the Cerebellum?. Neuron, 2006, 51, 680-682.	3.8	4
136	Neural unit activity in an anterior "nonspecific" cortical area during classical conditioning of the rabbit's nictitating membrane response. Bulletin of the Psychonomic Society, 1980, 15, 61-64.	0.2	3
137	Classical conditioning has much to do with LTP. Behavioral and Brain Sciences, 1997, 20, 632-633.	0.4	3
138	Neurobiological Foundations of Stress. , 2006, , 37-65.		2
139	THE SEARCH FOR THE ENGRAM. , 1986, , 3-52.		2
140	Effects of stimulation of frontal cortex on neuronal activity in association and sensory areas of the cortex. Learning and Behavior, 1968, 12, 167-168.	0.6	1
141	"Model systems" versus "neuroethological" approach to hippocampal function. Behavioral and Brain Sciences, 1979, 2, 517-518.	0.4	1
142	Learning and memory: basic principles and model systems. , 0, , 22-35.		1
143	Hippocampal activity as a temporal template for learned behavior. Behavioral and Brain Sciences, 1979, 2, 348-348.	0.4	0
144	Learning and memory: basic principles and model systems. , 0, , 26-43.		0

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145	Learning and Memory, Neural Mechanisms. , 1989, , 8-10.		0
146	Learning and Memory. , 1989, , 5-7.		0