Richard F Thompson

List of Publications by Year in Descending Order

149 papers	17,064 citations	59 h-index	130 g-index
153 ext. papers	18,088 ext. citations	6.4 avg, IF	6.28 L-index

#	Paper	IF	Citations
149	Localization and characterization of an essential associative memory trace in the mammalian brain. *Brain Research*, **2015**, 1621, 252-9	3.7	12
148	Prologue to Habituation: A History. Habituation **2014**, 77-94		1
147	Learning and Memory **2014**, 591-637		1
146	Allopregnanolone restores hippocampal-dependent learning and memory and neural progenitor survival in aging 3xTgAD and nonTg mice. *Neurobiology of Aging*, **2012**, 33, 1493-506	5.6	98
145	Prolonging the postcomplex spike pause speeds eyeblink conditioning. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16726-30	11.5	16
144	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, 6498-503	11.5	220
143	Regulation of hippocampal synaptic plasticity by estrogen and progesterone. *Vitamins and Hormones*, **2010**, 82, 219-39	2.5	34
142	The role of the cerebellar interpositus nucleus in short and long term memory for trace eyeblink conditioning. *Behavioral Neuroscience*, **2009**, 123, 54-61	2.1	37
141	Habituation: a history. *Neurobiology of Learning and Memory*, **2009**, 92, 127-34	3.1	246
140	Habituation revisited: an updated and revised description of the behavioral characteristics of habituation. *Neurobiology of Learning and Memory*, **2009**, 92, 135-8	3.1	864
139	Progesterone receptors: form and function in brain. *Frontiers in Neuroendocrinology*, **2008**, 29, 313-39	8.9	434
138	Extinction of a classically conditioned response: red nucleus and interpositus. *Journal of Neuroscience*, **2008**, 28, 2651-8	6.6	23
137	17beta-estradiol modifies stress-induced and age-related changes in hippocampal synaptic plasticity. *Behavioral Neuroscience*, **2008**, 122, 301-9	2.1	42
136	Eye-blink conditioning is associated with changes in synaptic ultrastructure in the rabbit interpositus nuclei. *Learning and Memory*, **2007**, 14, 385-9	2.8	37
135	Molecular evidence for two-stage learning and partial laterality in eyeblink conditioning of mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5549-54	11.5	27
134	Neurobiological Foundations of Stress **2006**, 37-65		1
133	Multiple memory mechanisms in the cerebellum?. *Neuron*, **2006**, 51, 680-2	13.9	3

132	In search of memory traces. *Annual Review of Psychology*, **2005**, 56, 1-23	26.1	294
131	Long-term storage of an associative memory trace in the cerebellum. *Behavioral Neuroscience*, **2005**, 119, 526-37	2.1	57
130	Comment on "Cerebellar LTD and Learning-Dependent Timing of Conditioned Eyelid Responses". *Science*, **2004**, 304, 211b-211b	33.3	5
129	Brain mechanisms of extinction of the classically conditioned eyeblink response. *Learning and Memory*, **2004**, 11, 517-24	2.8	58
128	Timing of conditioned responses utilizing electrical stimulation in the region of the interpositus nucleus as a CS. *Integrative Psychological and Behavioral Science*, **2004**, 39, 83-94		8
127	Learning and Memory: Basic Mechanisms **2004**, 499-574		3
126	Inhibiting the expression of a classically conditioned behavior prevents its extinction. *Journal of Neuroscience*, **2003**, 23, 10577-84	6.6	33
125	Neural substrates of eyeblink conditioning: acquisition and retention. *Learning and Memory*, **2003**, 10, 427-55	2.8	482
124	Cerebellar cortical inhibition and classical eyeblink conditioning. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 1592-7	11.5	112
123	Discovering the Brain Substrates of Eyeblink Classical Conditioning **2002**, 17-49		2
122	Mechanisms of neuronal conditioning. *International Review of Neurobiology*, **2001**, 45, 313-37	4.4	20
121	Spinal Plasticity **2001**, 1-11		5
120	Learning- and cerebellum-dependent neuronal activity in the lateral pontine nucleus.. *Behavioral Neuroscience*, **2000**, 114, 254-261	2.1	43
119	Intracerebellar conditioning--Brogden and Gantt revisited. *Behavioural Brain Research*, **2000**, 110, 3-11	3.4	19
118	The amygdala modulates prefrontal cortex activity relative to conditioned fear. *Nature*, **1999**, 402, 294-6	50.4	311
117	Essential neuronal pathways for reflex and conditioned response initiation in an intracerebellar stimulation paradigm and the impact of unconditioned stimulus preexposure on learning rate. *Neurobiology of Learning and Memory*, **1999**, 71, 167-93	3.1	12
116	Bilateral lesions of the interpositus nucleus completely prevent eyeblink conditioning in Purkinje cell-degeneration mutant mice.. *Behavioral Neuroscience*, **1999**, 113, 204-210	2.1	53
115	Learning induces a CDC2-related protein kinase, KKIAMRE. *Journal of Neuroscience*, **1999**, 19, 9530-7	6.6	47

114	Effects of Paired and Unpaired Eye-Blink Conditioning on Purkinje Cell Morphology. *Learning and Memory*, **1999**, 6, 128-137	2.8	6
113	Selective changes in AMPA receptors in rabbit cerebellum following classical conditioning of the eyelid-nictitating membrane response. *Brain Research*, **1998**, 803, 9-18	3.7	17
112	Importance of the intracellular domain of NR2 subunits for NMDA receptor function in vivo. *Cell*, **1998**, 92, 279-89	56.2	398
111	The nature of reinforcement in cerebellar learning. *Neurobiology of Learning and Memory*, **1998**, 70, 150-76	3.1	76
110	Inhibitory cerebello-olivary projections and blocking effect in classical conditioning. *Science*, **1998**, 279, 570-3	33.3	230
109	Evidence of plasticity in the pontocerebellar conditioned stimulus pathway during classical conditioning of the eyeblink response in the rabbit.. *Behavioral Neuroscience*, **1998**, 112, 267-285	2.1	69
108	Cerebellar brain-derived neurotrophic factor-TrkB defect associated with impairment of eyeblink conditioning in Stargazer mutant mice. *Journal of Neuroscience*, **1998**, 18, 6990-9	6.6	74
107	Impaired Eye-Blink Conditioning in waggler, a Mutant Mouse With Cerebellar BDNF Deficiency. *Learning and Memory*, **1998**, 5, 355-364	2.8	29
106	Associative learning. *International Review of Neurobiology*, **1997**, 41, 151-89	4.4	129
105	Motor cortex lesions do not affect learning or performance of the eyeblink response in rabbits.. *Behavioral Neuroscience*, **1997**, 111, 727-738	2.1	21
104	Time-dependent blockade of STP and LTP in hippocampal slices following acute stress in mice. *Neuroscience Letters*, **1997**, 233, 41-4	3.3	77
103	Classical conditioning has much to do with LTP. *Behavioral and Brain Sciences*, **1997**, 20, 632-633	0.9	2
102	Hippocampal lesions impair contextual fear conditioning in two strains of mice.. *Behavioral Neuroscience*, **1996**, 110, 1177-1180	2.1	98
101	Deficient cerebellar long-term depression, impaired eyeblink conditioning, and normal motor coordination in GFAP mutant mice. *Neuron*, **1996**, 16, 587-99	13.9	390
100	Motor learning and synaptic plasticity in the cerebellum. *Behavioral and Brain Sciences*, **1996**, 19, 475-477	0.9	4
99	Classical conditioning with electrical stimulation of cerebellum as both conditioned and unconditioned stimulus.. *Behavioral Neuroscience*, **1996**, 110, 914-921	2.1	29
98	Inactivation of brainstem motor nuclei blocks expression but not acquisition of the rabbit's classically conditioned eyeblink response.. *Behavioral Neuroscience*, **1996**, 110, 219-227	2.1	52
97	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC gamma mutant mice. *Cell*, **1995**, 83, 1233-42	56.2	384

96	Hippocampectomy impairs the memory of recently, but not remotely, acquired trace eyeblink conditioned responses.. *Behavioral Neuroscience*, **1995**, 109, 195-203	2.1	442
95	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
94	Projections from the auditory cortex to the pontine nuclei in the rabbit. *Behavioural Brain Research*, **1993**, 56, 23-30	3.4	37
93	Mammalian brain substrates of aversive classical conditioning. *Annual Review of Psychology*, **1993**, 44, 317-42	26.1	244
92	Lidocaine infusion in a critical region of cerebellum completely prevents learning of the conditioned eyeblink response.. *Behavioral Neuroscience*, **1993**, 107, 882-886	2.1	55
91	Cerebellar cortical lesions and reacquisition in classical conditioning of the nictitating membrane response in rabbits. *Brain Research*, **1993**, 608, 67-77	3.7	39
90	Interpositus lesion abolition of the eyeblink conditioned response is not due to effects on performance.. *Behavioral Neuroscience*, **1993**, 107, 530-532	2.1	18
89	Individual differences in emergence neophobia predict magnitude of perforant-path long-term potentiation (LTP) and plasma corticosterone levels in rats. *Cognitive, Affective and Behavioral Neuroscience*, **1993**, 21, 2-10		8
88	Conditioning using a cerebral cortical conditioned stimulus is dependent on the cerebellum and brain stem circuitry.. *Behavioral Neuroscience*, **1992**, 106, 509-517	2.1	58
87	Cerebellar stimulation as an unconditioned stimulus in classical conditioning.. *Behavioral Neuroscience*, **1992**, 106, 739-750	2.1	86
86	Learning of a hippocampal-dependent conditioning task changes the binding properties of AMPA receptors in rabbit hippocampus. *Behavioral and Neural Biology*, **1992**, 58, 222-31		31
85	Delayed acquisition of eyeblink conditioning in aged F1 hybrid (Fischer-344 x Brown Norway) rats. *Neurobiology of Aging*, **1992**, 13, 319-23	5.6	30
84	Long-term potentiation is associated with increased [3H]AMPA binding in rat hippocampus. *Brain Research*, **1992**, 573, 228-34	3.7	123
83	Acute stress impairs (or induces) synaptic long-term potentiation (LTP) but does not affect paired-pulse facilitation in the stratum radiatum of rat hippocampus. *Synapse*, **1992**, 11, 262-5	2.4	113
82	Are memory traces localized or distributed?. *Neuropsychologia*, **1991**, 29, 571-82	3.2	56
81	Classical conditioning selectively increases AMPA receptor binding in rabbit hippocampus. *Brain Research*, **1991**, 559, 331-6	3.7	66
80	Selective increase of AMPA binding to the AMPA/quisqualate receptor in the hippocampus in response to acute stress. *Brain Research*, **1991**, 559, 168-71	3.7	82
79	Are eyeblink responses to tone in the decerebrate, decerebellate rabbit conditioned responses?. *Behavioural Brain Research*, **1991**, 44, 27-34	3.4	35

78	Sensorimotor Learning and the Cerebellum. *Research Notes in Neural Computing*, **1991**, 381-396		11
77	Manipulation of Pituitary-Adrenal Activity Affects Neural Plasticity in Rodent Hippocampus. *Psychological Science*, **1990**, 1, 201-204	7.9	13
76	Unpredictable and uncontrollable stress impairs neuronal plasticity in the rat hippocampus. *Brain Research Bulletin*, **1990**, 24, 663-7	3.9	115
75	Neurobiological substrates of classical conditioning across the life span. *Annals of the New York Academy of Sciences*, **1990**, 608, 150-73; discussion 174-8	6.5	34
74	Opioid antagonist eliminates the stress-induced impairment of long-term potentiation (LTP). *Brain Research*, **1990**, 506, 316-8	3.7	33
73	Classical conditioning in rabbits using pontine nucleus stimulation as a conditioned stimulus and inferior olive stimulation as an unconditioned stimulus. *Synapse*, **1989**, 3, 225-33	2.4	295
72	Integrating Behavioral and Biological Models of Classical Conditioning. *Psychology of Learning and Motivation - Advances in Research and Theory*, **1989**, 109-156	1.4	21
71	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.. *Behavioral Neuroscience*, **1989**, 103, 206-208	2.1	9
70	Learning and Memory, Neural Mechanisms **1989**, 8-10		
69	Learning and Memory **1989**, 5-7		
68	Modeling the neural substrates of associative learning and memory: A computational approach.. *Psychological Review*, **1987**, 94, 176-191	6.3	192
67	Behavioral stress impairs long-term potentiation in rodent hippocampus. *Behavioral and Neural Biology*, **1987**, 48, 138-49		393
66	Classical conditioning in 3-, 30-, and 45-month-old rabbits: behavioral learning and hippocampal unit activity. *Neurobiology of Aging*, **1987**, 8, 101-8	5.6	79
65	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	2.1	159
64	Hippocampus and trace conditioning of the rabbit's classically conditioned nictitating membrane response.. *Behavioral Neuroscience*, **1986**, 100, 729-744	2.1	651
63	Role of the Hippocampus in Classical Conditioning of Aversive and Appetitive Behaviors **1986**, 203-239		35
62	THE SEARCH FOR THE ENGRAM **1986**, 3-52		2
61	Classical conditioning of the eyelid response in rabbits as a model system for the study of brain mechanisms of learning and memory in aging. *Experimental Aging Research*, **1985**, 11, 109-22	1.7	46

60	Cochlear nucleus, inferior colliculus, and medial geniculate responses during the behavioral detection of threshold-level auditory stimuli in the rabbit. *Journal of the Acoustical Society of America*, **1985**, 77, 2111-27	2.2	8
59	Trace conditioning: abolished by cerebellar nuclear lesions but not lateral cerebellar cortex aspirations. *Brain Research*, **1985**, 348, 249-60	3.7	163
58	Unit activity recorded from the globus pallidus during classical conditioning of the rabbit nictitating membrane response. *Brain Research*, **1985**, 332, 219-29	3.7	9
57	Lesions of the inferior olivary complex cause extinction of the classically conditioned eyeblink response. *Brain Research*, **1985**, 359, 120-30	3.7	330
56	Cerebellar lesions abolish an avoidance response in rabbit. *Behavioral and Neural Biology*, **1985**, 44, 221-7		30
55	Classical conditioning of the rabbit eyelid response with mossy fiber stimulation as the conditioned stimulus. *Bulletin of the Psychonomic Society*, **1985**, 23, 245-248		51
54	Increased responsivity of dentate granule cells during nictitating membrane response conditioning in rabbit. *Behavioural Brain Research*, **1984**, 12, 145-54	3.4	124
53	A nonrecoverable learning deficit. *Physiological Psychology*, **1984**, 12, 103-110		40
52	Effects of lesions of cerebellar nuclei on conditioned behavioral and hippocampal neuronal responses. *Brain Research*, **1984**, 291, 125-36	3.7	339
51	Neuronal responses of the rabbit brainstem during performance of the classically conditioned nictitating membrane (NM)/eyelid response. *Brain Research*, **1983**, 271, 73-88	3.7	66
50	Neuronal substrates of simple associative learning: classical conditioning. *Trends in Neurosciences*, **1983**, 6, 270-275	13.3	33
49	Auditory signal detection and decision processes in the nervous system. *Journal of Comparative and Physiological Psychology*, **1982**, 96, 328-31		23
48	Superior cerebellar peduncle lesions selectively abolish the ipsilateral classically conditioned nictitating membrane/eyelid response of the rabbit. *Brain Research*, **1982**, 244, 347-50	3.7	124
47	Ipsilateral cerebellar lesions prevent learning of the classically conditioned nictitating membrane/eyelid response. *Brain Research*, **1982**, 242, 190-3	3.7	136
46	Locus coeruleus lesions and resistance to extinction of a classically conditioned response: involvement of the neocortex and hippocampus. *Brain Research*, **1982**, 245, 239-49	3.7	52
45	Concomitant classical conditioning of the rabbit nictitating membrane and eyelid responses: correlations and implications. *Physiology and Behavior*, **1982**, 28, 769-75	3.5	97
44	Hippocampal cellular plasticity during extinction of classically conditioned nictitating membrane behavior. *Behavioural Brain Research*, **1982**, 4, 63-76	3.4	30
43	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		210

42	Effects of ipsilateral rostral pontine reticular lesions on retention of classically conditioned nictitating membrane and eyelid responses. *Physiological Psychology*, **1981**, 9, 335-339		64
41	Effect of the interstimulus (CS-UCS) interval on hippocampal unit activity during classical conditioning of the nictitating membrane response of the rabbit (Oryctolagus cuniculus). *Journal of Comparative and Physiological Psychology*, **1980**, 94, 201-15		102
40	Simultaneous behavioral and neural (cochlear nucleus) measurement during signal detection in the rabbit. *Perception & Psychophysics*, **1980**, 28, 504-13		11
39	Alterations in spontaneous miniature potential activity during habituation of a vertebrate monosynaptic pathway. *Brain Research*, **1980**, 189, 377-90	3.7	7
38	Reciprocal anatomical connections between hippocampus and subiculum in the rabbit evidence for subicular innervation of regio superior. *Brain Research*, **1980**, 183, 265-76	3.7	88
37	Hippocampal unit-behavior correlations during classical conditioning. *Brain Research*, **1980**, 193, 229-48	3.7	94
36	Learning-dependent neuronal responses recorded from limbic system brain structures during classical conditioning. *Physiological Psychology*, **1980**, 8, 155-167		59
35	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		2
34	Brain Mechanisms of Learning **1980**, 221-239		3
33	The Search for the Engram, II **1980**, 172-222		31
32	The effect of temporal single alternation on learned increases in hippocampal unit activity in classical conditioning of the rabbit nictitating membrane response. *Physiological Psychology*, **1979**, 7, 345-351		89
31	Neuronal plasticity recorded from cat hippocampus during classical conditioning. *Brain Research*, **1979**, 163, 339-43	3.7	63
30	Neuronal unit activity in the abducens nucleus during classical conditioning of the nictitating membrane response in the rabbit (Oryctolagus cuniculus). *Journal of Comparative and Physiological Psychology*, **1979**, 93, 595-609		46
29	Hippocampal activity as a temporal template for learned behavior. *Behavioral and Brain Sciences*, **1979**, 2, 348-348	0.9	
28	Model systems versus neuroethological approach to hippocampal function. *Behavioral and Brain Sciences*, **1979**, 2, 517-518	0.9	1
27	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	3.7	90
26	Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. I. The hippocampus. *Brain Research*, **1978**, 145, 323-46	3.7	460
25	Response properties of single units in an association area of the kitten neocortex. *Physiology and Behavior*, **1976**, 16, 151-61	3.5	4

24	Mechanisms of efferent neuronal control of the reflex nicitating membrane response in rabbit (Oryctolagus cuniculus). *Journal of Comparative and Physiological Psychology*, **1976**, 90, 411-23		113
23	Tone-induced changes in excitability of abducens motoneurons and of the reflex path of nictitating membrane response in rabbit (Oryctolagus cuniculus). *Journal of Comparative and Physiological Psychology*, **1976**, 90, 424-34		72
22	The search for the engram.. *American Psychologist*, **1976**, 31, 209-227	9.5	390
21	A Dual-Process Theory of Habituation: Theory and Behavior **1973**, 239-271		56
20	A Dual-Process Theory of Habituation: Neural Mechanisms **1973**, 175-205		15
19	Stimulus generalization of habituation in spinal interneurons. *Physiology and Behavior*, **1972**, 8, 155-8	3.5	16
18	Habituation of the pyramidal response in unanesthetized cat. *Physiology and Behavior*, **1972**, 8, 201-5	3.5	5
17	Habituation and dishabituation to dorsal root stimulation in the isolated frog spinal cord. *Behavioral Biology*, **1972**, 7, 37-45		9
16	Habituation: a dual-process theory. *Psychological Review*, **1970**, 77, 419-50	6.3	1620
15	Effects of stimulus frequency and intensity on habituation and sensitization in acute spinal cat. *Physiology and Behavior*, **1969**, 4, 383-388	3.5	68
14	Habituation and sensitization of spinal interneuron activity in acute spinal cat. *Brain Research*, **1969**, 14, 521-5	3.7	41
13	Effects of stimulation of frontal cortex on neuronal activity in association and sensory areas of the cortex. *Learning and Behavior*, **1968**, 12, 167-168		1
12	Sensory preconditioning of cats in a shuttle box avoidance situation. *Learning and Behavior*, **1968**, 13, 37-38		4
11	Classical conditioning of the hindlimb flexion reflex in the acute spinal cat. *Learning and Behavior*, **1967**, 8, 213-214		27
10	Cortical control of specific and nonspecific sensory projections to the cerebral cortex. *Learning and Behavior*, **1966**, 4, 93-94		8
9	Habituation: a model phenomenon for the study of neuronal substrates of behavior. *Psychological Review*, **1966**, 73, 16-43	6.3	1958
8	Behavioral correlates of evoked activity recorded from association areas of the cerebral cortex. *Journal of Comparative and Physiological Psychology*, **1965**, 60, 329-39		48
7	Dependence of evoked cortical association responses on behavioral variables. *Learning and Behavior*, **1964**, 1, 153-154		12

6	Inverse relation between evoked cortical association responses and behavioral orienting to repeated auditory stimuli. *Learning and Behavior*, **1964**, 1, 399-400	5
5	ROLE OF AUDITORY CORTEX IN REFLEX HEAD ORIENTATION BY CATS TO AUDITORY STIMULI. *Journal of Comparative and Physiological Psychology*, **1963**, 56, 996-1002	60
4	Learning andmemory: basic principles and model systems22-35	1
3	Learning and memory: basic principles and model systems26-43	
2	Biological Models of Associative Learning499	
1	Biological Psychology47	1