References

Ackil, J., Mellgren, R., Halgren, C., & Frommer, G. (1969). Effects of CS preexposures on avoidance learning in rats with hippocampal lesions. *Journal of Comparative and Physiological Psychology, 69*(4), 739–747.

Ackley, D., Hinton, G., & Sejnowski, T. (1985). A learning algorithm for Boltzmann machines. *Cognitive Science, 9,* 147–169.

Akase, E., Alkon, D. L., & Disterhoft, J. F. (1989). Hippocampal lesions impair memory of short-delay conditioned eyeblink in rabbits. *Behavioral Neuroscience, 103*(5), 935–943.

Albus, J. (1971). A theory of cerebellar function. *Mathematical Bioscience, 10,* 25–61.

Alexander, M., & Freedman, M. (1984). Amnesia after anterior communicating artery rupture. *Neurology, 34,* 752–757.

Allen, M., Chelius, L., & Gluck, M. (1998). Selective entorhinal cortical lesions disrupt the learned irrelevance pre-exposure effect in the classically conditioned rabbit eyeblink response paradigm. *Society for Neuroscience Abstracts, 24,* 442.

Alonso, A., & Kohler, C. (1982). Evidence for separate projections of hippocampal pyramidal and non-pyramidal neurons to different parts of the septum in the rat brain. *Neuroscience Letters, 31*(3), 209–214.

Alvarez, P., & Squire, L. (1994). Memory consolidation and the medial temporal lobe: A simple network model. *Proceedings of the National Academy of Sciences, 91,* 7041–7045.

Amaral, D. G., & Witter, M. P. (1989). The three-dimensional organization of the hippocampal formation: A review of anatomical data. *Neuroscience, 31*(3), 571–591.

Ambros-Ingerson, J., Granger, R., & Lynch, G. (1990). Simulation of paleocortex performs hierarchical clustering. *Science, 247,* 1344–1348.

Anderson, J. (1977). Neural models with cognitive implications. In D. LaBerge & S. Samuels (Eds.), *Basic Processes in Reading: Perception and Comprehension* (pp. 27–90). Hillsdale, NJ: Lawrence Erlbaum Associates.

Antelman, S., & Brown, T. (1972). Hippocampal lesions and shuttlebox avoidance behavior: A fear hypothesis. *Physiology and Behavior, 9,* 15–20.

Anton, P., Lynch, G., & Granger, R. (1991). Computation of frequency-to-spatial transform by olfactory bulb glomeruli. *Biological Cybernetics, 65,* 407–414.

Atkinson, R., & Estes, W. (1963). Stimulus sampling theory. In R. Luce, R. Bush, & E. Galanter (Eds.), *Handbook of Mathematical Psychology,* vol. 2, New York: Wiley.

Bahro, M., Schreurs, B., Sunderland, T., & Molchan, S. (1995). The effects of scopolamine, lorazepam, and glycopyrrolate on classical conditioning of the human eyeblink response. *Psychopharmacology, 122*(4), 395–400.

Bakin, J. S., & Weinberger, N. M. (1990). Classical conditioning induces CS-specific receptive field plasticity in the auditory cortex of the guinea pig. *Brain Research, 536,* 271–286.

Bakin, J., & Weinberger, N. (1996). Induction of a physiological memory in the cerebral cortex by stimulation of the nucleus basalis. *Proceedings of the National Academy of Sciences USA, 93,* 11219–11224.

Baldi, P., & Hornik, K. (1989). Neural networks and principal component analysis: Learning from examples without local minima. *Neural Networks, 2,* 53–58.

Ballard, D., Hinton, G., & Sejnowski, T. (1983). Parallel visual computation. *Nature, 306*(5938), 21–26.

Balsam, P., & Tomie, A. (1985). *Context and Conditioning.* Hillsdale, NJ: Lawrence Erlbaum Associates.

Barkai, E., Bergman, R., Horwitz, G., & Hasselmo, M. (1994). Modulation of associative memory function in a biophysical simulation of rat piriform cortex. *Journal of Neurophysiology, 72*(2), 659–677.

Barrionuevo, G., & Brown, T. H. (1983). Associative long-term potentiation in hippocampal slices. *Proceedings of the National Academy of Sciences USA, 80,* 7347–7351.

Barto, A., & Jordan, M. (1987). Gradient following without backpropagation in layered nets. In *Proceedings of the IEEE First International Conference on Neural Networks* (vol. 2, pp. 629–636).

Bartus, R. (1979). Physostigmine and recent memory: Effects in young and aged nonhuman primates. *Science, 206,* 1087–1089.

Bartus, R., Dean, R., Pontecorvo, M., & Flicker, C. (1985). The cholinergic hypothesis: A historical overview, current perspective, and future directions. *Annals of the New York Academy of Sciences, 444,* 332–358.

Baskerville, K., Schweitzer, J., & Herron, P. (1997). Effects of cholinergic depletion on experience-dependent plasticity in the cortex of the rat. *Neuroscience, 80*(4), 1159–1169.

Baxter, M., Holland, P., & Gallagher, M. (1997). Disruption of decrements in conditioned stimulus processing by selective removal of hippocampal cholinergic input. *Journal of Neuroscience, 17*(13), 5230–5236.

Bear, M., Connors, B., & Paradiso, M. (1996). *Neuroscience: Exploring the Brain.* Philadelphia: Williams & Wilkins.

Beatty, W., Butters, N., & Janowsky, D. (1986). Patterns of memory failure after scopolamine treatment: Implications for cholinergic hypotheses of dementia. *Behavioral and Neural Biology, 45*(2), 196–211.

Berger, T., & Orr, W. (1983). Hippocampectomy selectively disrupts discrimination reversal learning of the rabbit nictitating membrane response. *Behavioral Brain Research, 8,* 49–68.

Berger, T., Rinaldi, P., Weisz, D., & Thompson, R. (1983). Single-unit analysis of different hippocampal cell types during classical conditioning of the rabbit nictitating membrane response. *Journal of Neurophysiology, 50,* 1197–1219.

Berger, T., & Thompson, R. (1978). Neuronal plasticity in the limbic system during classical conditioning of the rabbit nictitating membrane response. I: The hippocampus. *Brain Research, 145*(2), 323–346.

Berry, S., & Thompson, R. (1979). Medial septal lesions retard classical conditioning of the nictitating membrane response in rabbits. *Science, 205,* 209–211.

Bliss, T., & Lømo, T. (1973). Long-lasting potentiation of synaptic transmission in the dentate area of the anaesthetized rabbit following stimulation of the perforant path. *Journal of Physiology, 232,* 331–356.

Bloom, F., Lazerson, A., Hofstadter, L. (1985). *Brain, Mind and Behavior,* New York: W. Freeman.

Blozovski, D., Cudennec, A., & Garrigou, D. (1977). Deficits in passive-avoidance learning following atropine in the developing rat. *Psychopharmacology, 54*(2), 139–143.

Bolles, R., & Fanselow, M. (1980). A perceptual-defensive-recuperative model of fear and pain. *Behavioral and Brain Sciences, 3,* 291–301.

Bonardi, C., & Hall, G. (1996). Learned irrelevance: No more than the sum of CS and US pre-exposure effects? *Journal of Experimental Psychology*: *Animal Behavior Processes, 22*(2), 183–191.

Bonardi, C., Rey, V., Richmond, M., & Hall, G. (1993). Acquired equivalence of cues in pigeon autoshaping: Effects of training with common consequences and common antecedents. *Animal Learning and Behavior, 21*(4), 369–376.

Bostock, E., Muller, R., & Kubie, J. (1991). Experience-dependent modifications of hippocampal place cell firing. *Hippocampus, 1*(2), 193–206.

Bouton, M. (1984). Differential control by context in the inflation and reinstatement paradigms. *Journal of Experimental Psychology*: *Animal Behavior Processes, 10*(1), 56–74.

Bouton, M. (1991). Context and retrieval in extinction and in other examples of interference in simple associative learning. In L. Dachowski & C. F. Flaherty (Eds.), *Current Topics in Animal Learning: Brain, Emotion and Cognition* (pp. 25–53). Hillsdale, NJ: Lawrence Erlbaum Associates.

Bouton, M. (1993). Context, time and memory retrieval in the interference paradigms of Pavlovian learning. *Psychological Bulletin, 114*(1), 80–99.

Bouton, M., & Brooks, D. (1993). Time and context effects on performance in a Pavlovian discrimination reversal. *Journal of Experimental Psychology*: *Animal Behavior Processes, 19*(2), 1–15.

Bouton, M., & King, D. (1983). Contextual control of the extinction of conditioned fear: Tests for the associative value of the context. *Journal of Experimental Psychology*: *Animal Behavior Processes, 9*(3), 248–265.

Bouton, M., & Nelson, J. (1998). The role of context in classical conditioning: Some implications for cognitive behavior therapy. In W. O'Donohue (Ed.), *Learning and Behavior Therapy* (pp. 59–84). New York: Allyn & Bacon.

Bouton, M., & Peck, C. (1989). Context effects on conditioning, extinction and reinstatement in an appetitive conditioning paradigm. *Animal Learning and Behavior, 17*, 188–198.

Bouton, M., & Swartzentruber, D. (1986). Analysis of the associative and occasion-setting properties of contexts participating in a Pavlovian discrimination. *Journal of Experimental Psychology: Animal Behavior Processes, 12*, 333–350.

Bouton, M., & Swartzentruber, D. (1991). Sources of relapse after extinction in pavlovian and instrumental learning. *Clinical Psychology Review, 11,* 123–140.

Brazhnik, E., Vinogradova, O., Stafekhina, V., & Kitchigina, V. (1993). Acetylcholine, theta-rhythm and activity of hippocampal neurons in the rabbit. IV: Sensory stimulation. *Neuroscience, 53*(4), 993–1007.

Brooks, D., & Baddeley, A. (1976). What can amnesic patients learn? *Neuropsychologia, 14,* 111–122.

Brown, M., & Sharp, P. (1995). Simulation of spatial learning in the Morris water maze by a neural network model of the hippocampal formation and nucleus accumbens. *Hippocampus, 5,* 171–188.

Buchanan, S., & Powell, D. (1980). Divergencies in Pavlovian conditioned heart rate and eyeblink responses produced by hippocampectomy in the rabbit (*Oryctolagus cuniculus*). *Behavioral and Neural Biology, 30*, 20–38.

Buhusi, C., Gray, J., & Schmajuk, N. (1998). Perplexing effects of hippocampal lesions on latent inhibition: A neural network solution. *Behavioral Neuroscience, 112*(2), 316–351.

Buhusi, C., & Schmajuk, N. (1996). Attention, configuration and hippocampal function. *Hippocampus, 6,* 621–642.

Bunsey, M., & Eichenbaum, H. (1993). Critical role of the parahippocampal region for paired association learning in rats. *Behavioral Neuroscience, 107,* 740–747.

Buonomano, D., & Merzenich, M. (1995). Temporal information transformed into a spatial code by a neural network with realistic properties. *Science, 267,* 1028–1030.

Burgess, N., & O'Keefe, J. (1996). Neuronal computations underlying the firing of place cells and their role in navigation. *Hippocampus, 6*(6), 749–762.

Burgess, N., O'Keefe, J., & Recce, M. (1993). Using hippocampal "place cells" for navigation, exploiting phase coding. In S. Hanson, J. Cowan, & C. Giles (Eds.), *Advances in Neural Information Processing Systems* (vol. 5, pp. 929–936). San Mateo, CA: Morgan Kaufman.

Bussey, T., Warburton, E. C., Aggleton, J., & Muir, J. (1998). Fornix lesions can facilitate acquisition of the transverse patterning task: A challenge for "configural" theories of hippocampal function. *Journal of Neuroscience, 18*(4), 1622–1631.

Buzsáki, G. (1989). Two-stage model of memory-trace formation: A role for "noisy" brain states. *Neuroscience, 31*(3), 551–570.

Buzsáki, G. (1996). The hippocampo-neocortical dialogue. *Cerebral Cortex, 6*(2), 81–92.

Buzsáki, G., Chen, L., & Gage, F. (1990). Spatial organization of physiological activity in the hippocampal region: Relevance to memory formation. *Progress in Brain Research, 83,* 257–268.

Cahusec, P., Rolls, E., Miyashita, Y., & Niki, H. (1993). Modification of the responses of hippocampal neurons in the monkey during the learning of a conditional spatial response task. *Hippocampus, 3*(1), 29–42.

Carlson, N. R. (1986). *The Physiology of Behavior* (3rd ed.). London: Allyn & Bacon.

Carlson, N. R. (1997). *Physiology of Behavior* (6th ed). New York: Allyn and Bacon.

Carpenter, G., & Grossberg, S. (Ed.). (1991). *Pattern Recognition by Self-Organizing Neural Networks.* Cambridge, MA: MIT Press.

Channell, S., & Hall, G. (1983). Contextual effects in latent inhibition with an appetitive conditioning procedure. *Animal Learning and Behavior, 11*(1), 67–74.

Chatterjee, A., Morris, M., Bowers, D., Williamson, D., Doty, L., & Heilman, K. (1993). Cholinergic treatment of an amnesic man with a basal forebrain lesion: Theoretical implications. *Journal of Neurology, Neurosurgery and Psychiatry, 56,* 1282–1289.

Christensen, H., Maltby, N., Jorm, A., Creasey, H., & Broe, G. (1992). Cholinergic 'blockade' as a model of the cognitive deficits in Alzheimer's disease. *Brain, 115*(Pt. 6), 1681–1699.

Christiansen, B., & Schmajuk, N. (1992). Hippocampectomy disrupts the topography of the rat eyeblink response during acquisition and extinction of classical conditioning. *Brain Research, 595*(2), 206–214.

Clark, A., Feldon, J., & Rawlins, J. (1992). Aspiration lesions of rat ventral hippocampus disinhibit responding in conditioned suppression or extinction, but spare latent inhibition and the partial reinforcement extinction effect. *Neuroscience, 48*(4), 821–829.

Clark, R., & Zola, S. (1998). Trace eyeblink classical conditioning in the monkey: A nonsurgical method and behavioral analysis. *Behavioral Neuroscience, 112*(5), 1062–1068.

Clark, S., Allard, T., Jenkins, W., & Merzenich, M. (1986). Cortical map reorganization following neurovascular island skin transfers on the hands of adult owl monkeys. *Society for Neuroscience Abstracts, 12,* 391.

Cohen, N. (1984). Preserved learning capacity in amnesia: Evidence for multiple learning systems. In L. Squire & N. Butters (Eds.), *Neuropsychology of Memory* (pp. 83–103). New York: Guilford Press.

Convit, A., de Leon, M., Golomb, J., George, A., Tarshish, C., Bobinski, M., Tsui, W., de Santi, S., Wegiel, J., & Wisniewski, H. (1993). Hippocampal atrophy in early Alzheimer's disease, anatomic specificity and validation. *Psychiatry Quarterly, 64,* 371–387.

Convit, A., de Leon, M., Tarshish, C., De Santi, S., Kluger, A., Rusinek, H., & George, A. (1995). Hippocampal volume losses in minimally impaired elderly. *The Lancet, 345,* 266.

Crick, F. (1989). The recent excitement about neural networks. *Nature, 337,* 129–132.

Crick, F., & Asanuma, C. (1986). Certain aspects of the anatomy and physiology of the cerebral cortex. In D. Rumelhart & J. McClelland (Ed.), *Parallel Distributed Processing: Explorations in the Microstructure of Cognition* (pp. 333–371). Cambridge, MA: MIT Press.

Daum, I., Channon, S., & Canavan, A. (1989). Classical conditioning in patients with severe memory problems. *Journal of Neurology, Neurosurgery and Psychiatry, 52,* 47–51.

Daum, I., Channon, S., & Gray, J. (1992). Classical conditioning after temporal lobe lesions in man: Sparing of simple discrimination and extinction. *Behavioral Brain Research, 52,* 159–165.

Daum, I., Schugens, M., Channon, S., Polkey, C., & Gray, J. (1991). T-maze discrimination and reversal learning after unilateral temporal or frontal lobe lesions in man. *Cortex, 27*(4), 613–622.

Davidson, T., McKernan, M., & Jarrard, L. (1993). Hippocampal lesions do not impair negative patterning: A challenge to configural association theory. *Behavioral Neuroscience, 107*(2), 227–234.

Davis, K., & Mohs, R. (1982). Enhancement of memory processes in Alzheimer's disease with multiple-dose intravenous physostigmine. *American Journal of Psychiatry, 139,* 1421–1424.

Davis, K., Mohs, R., Tinklenberg, J., Pfefferbaum, A., Hollister, L., & Kopell, B. (1978). Physostigmine: Improvement of long-term memory processes in normal humans. *Science, 201,* 272–274.

de Leon, M., George, A., Golomb, J., Tarshish, C., Convit, A., Kluger, A., de Santi, S., McRae, T., Ferris, S., Reisberg, B., Ince, C., Rusinek, H., Bobinski, M., Quinn, B., Miller, D., & Wisniewski, H. (1997). Frequency of hippocampal formation atrophy in normal aging and Alzheimer's disease. *Neurobiology of Aging, 18*(1), 1–11.

de Leon, M., George, A., Stylopoulos, L., Smith, G., & Miller, D. (1989). Early marker for Alzheimer's disease: The atrophic hippocampus. *The Lancet,* 672–673.

de Leon, M., Golomb, J., George, A., Convit, A., Rusinek, H., Morys, J., Bobinski, M., de Santi, S., Tarshish, C., Narkiewicz, O., & Wisniewski, H. (1993b). Hippocampal formation atrophy: Prognostic significance for Alzheimer's Disease. In B. Corain, K. Iqbal, M. Nicolini, B. Winblad, H. Wisniewski, & P. Zatta (Eds.), *Alzheimer's Disease: Advances in Clinical and Brain Research* (pp. 35–46). New York: John Wiley & Sons.

de Leon, M., Golomb, J., George, A., Convit, A., Tarshish, C., McRae, T., de Santi, S., Smith, G., Ferris, S., Noz, M., & Rusinek, H. (1993a). The radiologic prediction of Alzheimer's Disease: The atrophic hippocampal formation. *American Journal of Neuroradiology, 14,* 897–906.

Deadwyler, S., West, M., & Lynch, G. (1979). Activity of dentate granule cells during learning: Differentiation of perforant path input. *Brain Research, 169,* 29–43.

Deller, J., Jr., Proakis, J., & Hansen, J. (1993). *Discrete-Time Processing of Speech Signals.* New York: Macmillan Press.

DeLuca, J., & Diamond, B. (1995). Aneurysm of the anterior communicating artery: A review of neuroanatomical and neurophysiological sequelae. *Journal of Clinical and Experimental Neuropsychology, 17*(1), 100–121.

Douglas, R. (1972). Pavlovian conditioning and the brain. In R. Boakes & M. Halliday (Eds.), *Inhibition and Learning.* London: Academic Press.

Douglas, R., & Pribam, K. (1966). Learning and limbic lesions. *Neuropsychologia, 4,* 192–222.

Downs, D., Cardozo, C., Schneiderman, N., Yehle, A., VanDercar, D., & Zwilling, G. (1972). Central effects of atropine upon aversive classical conditioning in rabbits. *Psychopharmacologia, 23,* 319–333.

Dumery, V., Derer, P., & Blozovski, D. (1988). Enhancement of passive avoidance learning through small doses of intra-amygdaloid physostigmine in the young rat: Its relation to the development of acetylcholinesterase. *Developmental Psychobiology, 21*(6), 553–565.

Durbin, R., & Rumelhart, D. E. (1989). Product units: A computationally powerful and biologically plausible extension to backpropagation. *Neural Computation, 1,* 133–142.

Eichenbaum, H. (1997). Declarative memory: Insights from cognitive neurobiology. *Annual Review of Psychology, 48,* 547–572.

Eichenbaum, H., & Buckingham, J. (1990). Studies on hippocampal processing: Experiment, theory and model. In M. Gabriel & J. Moore (Eds.), *Learning and Computational Neuroscience: Foundations of Adaptive Networks* (pp. 171–231). Cambridge, MA: MIT Press.

Eichenbaum, H., & Bunsey, M. (1995). On the binding of associations in memory: Clues from studies on the role of the hippocampal region in paired associate learning. *Current Directions in Psychological Science, 4*(1), 19–23.

Eichenbaum, H., Cohen, N. J., Otto, T., & Wible, C. (1992). Memory representation in the hippocampus: Functional domain and functional organization. In L. R. Squire, G. Lynch, N. M. Weinberger, & J. L. McGaugh (Eds.), *Memory Organization and Locus of Change* (pp. 163–204). Oxford: Oxford University Press.

Eichenbaum, H., Fagan, A., Mathews, P., & Cohen, N. J. (1988). Hippocampal system dysfunction and odor discrimination learning in rats: Impairment or facilitation depending on representational demands. *Behavioral Neuroscience, 102*(3), 331–339.

Eichenbaum, H., Mathews, P., & Cohen, N. J. (1989). Further studies of hippocampal representation during odor discrimination learning. *Behavioral Neuroscience, 103*(6), 1207–1216.

Eichenbaum, H., Otto, T., & Cohen, N. J. (1992). The hippocampus—What does it do? *Behavioral and Neural Biology, 57,* 2–36.

Eichenbaum, H., Otto, T., & Cohen, N. J. (1994). Two functional components of the hippocampal memory system. *Behavioral and Brain Sciences, 17*(3), 449–518.

Eichenbaum, H., Stewart, C., & Morris, R. G. M. (1990). Hippocampal representation in place learning. *Journal of Neuroscience, 10*(11), 3531–3542.

Elman, J., & Zipser, D. (1987). *Learning the hidden structure of speech* (Tech. Report No. 8701). San Diego: Institute for Cognitive Science, University of California.

Engel, J. (1993). Outcome with respect to epileptic seizures. In J. Engel (Ed.), *Surgical Treatment of the Epilepsies* (pp. 609–621). New York: Raven.

Ennaceur, A., & Meliani, K. (1992). Effects of physostigmine and scopolamine on rats' performances in object-recognition and radial-maze tests. *Psychopharmacology, 109,* 321–330.

Ermita, B., Allen, M., Gluck, M., Zaborszky, L. (1999). Effects of neurotoxic lesions of the medial septum on motor-reflex learning in the rabbit. *Abstracts of the Society for Neuroscience Annual Meeting (Miami, Florida),* vol. 24, p. I-191.

Estes, W. K. (1982). *Models of Learning, Memory, and Choice.* New York: Praeger.

Everitt, B., & Robbins, T. (1997). Central cholinergic systems and cognition. *Annual Review of Psychology, 48,* 649–684.

Falk, C., Gilchrist, J., Pericak-Vance, M., & Speer, M. (1998). Using neural networks as an aid in the determination of disease status: Comparison of clinical diagnosis to neural-network predictions in a pedigree with autosomal dominant limb-girdle muscular dystrophy. *American Journal of Human Genetics, 62*, 941–949.

Fanselow, M. (1998). Pavlovian conditioning, negative feedback and blocking: Mechanisms that regulate association formation. *Neuron, 20,* 625–627.

Feasey-Truger, K., Li, B., & Bruggencate, G. (1992). Lesions of the medial septum which produce deficits in working/spatial memory do not impair long-term potentiation in the CA3 region of the rat in hippocampus in vivo. *Brain Research, 591*(2), 296–304.

Fitch, R., Miller, S., & Tallal, P. (1997). Neurobiology of speech perception. *Annual Review of Neuroscience, 20,* 331–353.

Fitzsimonds, R., Song, H.-J., & Poo, M.-M. (1997). Propagation of activity-dependent synaptic depression in simple neural networks. *Nature, 388,* 439–448.

Flicker, C., Ferris, S., & Reisberg, B. (1991). Mild cognitive impairment in the elderly: Predictors of dementia. *Neurology, 41,* 1006–1009.

Flicker, C., Ferris, S., & Serby, M. (1992). Hypersensitivity to scopolamine in the elderly. *Psychopharmacology, 107,* 437–441.

Flicker, C., Serby, M., & Ferris, S. (1990). Scopolamine effects on memory, language, visuospatial praxis and psychomotor speed. *Psychopharmacology, 100*(2), 243–250.

Freed, D., Corkin, S., & Cohen, N. (1987). Forgetting in HM: A second look. *Neuropsychologia, 25*(3), 461–471.

Freund, T., & Antal, M. (1988). GABA-containing neurons in the septum control inhibitory interneurons in the hippocampus. *Nature, 336,* 170–173.

Frey, P., & Sears, R. (1978). Models of conditioning incorporating the Rescorla-Wagner associative axiom, a dynamic attention process, and a catastrophe rule. *Psychological Review, 85,* 321–340.

Fukushima, K. (1975). Cognitron: A self-organizing multilayered neural network. *Biological Cybernetics, 20*(3/4), 121–136.

Funahashi, K.-I. (1989). On the approximate realization of continuous mappings by neural networks. *Neural Networks, 2,* 183–192.

Funnell, E. (1995). A case of forgotten knowledge. In R. Campbell & M. Conway (Eds.), *Broken Memories: Case Studies in Memory Impairments* (pp. 225–236). Cambridge, MA: Blackwell.

Gabriel, M., Vogt, B., Kubota, Y., Poremba, A., & Kang, E. (1991). Training-stage related neuronal plasticity in limbic thalamus and cingulate cortex during learning: a possible key to mnemonic retrieval. *Behavioural Brain Research, 46*(2), 175–185.

Gabrieli, J., Corkin, S., Mickel, S., & Crowden, J. (1993). Intact acquisition and long-term retention of mirror-tracing skill in Alzheimer's Disease and in global amnesia. *Behavioral Neuroscience, 107*(6), 899–910.

Gabrieli, J., McGlinchey-Berroth, R., Carrillo, M., Gluck, M., Cermack, L., & Disterhoft, J. (1995). Intact delay-eyeblink classical conditioning in amnesia. *Behavioral Neuroscience, 109*(5), 819–827.

Gaffan, D. (1997). Episodic and semantic memory and the role of the not-hippocampus. *Trends in Cognitive Sciences, 1*(7), 246–248.

Gallagher, M., & Holland, P. C. (1992). Preserved configural learning and spatial learning impairment in rats with hippocampal damage. *Hippocampus, 2*(1), 81–88.

Gao, E., & Sugo, N. (1998). Experience-dependent corticofugal adjustment of midbrain frequency map in bat auditory system. *Proceedings of the National Academy of Sciences USA, 95,* 12663–12670.

Garrud, P., Rawlins, J., Mackintosh, N., Goodall, G., Cotton, M., & Feldon, J. (1984). Successful overshadowing and blocking in hippocampectomized rats. *Behavioral Brain Research, 12,* 39–53.

Gazzaniga, M., Ivry, R., & Mangun, G. (1998). *Cognitive Neuroscience: The Biology of the Mind.* New York: Norton.

Georgopoulos, A., Kalaska, J., Caminiti, R., & Massey, J. (1983). Interruption of motor cortical discharge subserving aimed arm movements. *Experimental Brain Research, 49*(3), 327–340.

Georgopoulos, A., Schwartz, A., & Kettner, R. (1986). Neuronal population coding of movement direction. *Science, 233,* 1416–1419.

Ghoneim, M., & Mewaldt, S. (1977). Studies on human memory: The interactions of diazepam, scopolamine and physostigmine. *Psychopharmacology, 52,* 1–6.

Gluck, M., & Bower, G. (1988a). From conditioning to category learning: An adaptive network model. *Journal of Experimental Psychology: General, 117*(3), 225–244.

Gluck, M., & Bower, G. (1988b). Evaluating an adaptive network model of human learning. *Journal of Memory and Language, 27,* 166–195.

Gluck, M., Bower, G., & Hee, M. (1989). A configural-cue network model of animal and human associative learning. In *11th Annual Conference of Cognitive Science Society* (pp. 323–332). Ann Arbor, MI.

Gluck, M., Glauthier, P., & Sutton, R. (1992). Adaptation of cue-specific learning rates in network models of human category learning. In *Proceedings of the Fourteenth Annual Meeting of the Cognitive Science Society,* Bloomington, IL.

Gluck, M., & Granger, R. (1993). Computational models of the neural bases of learning and memory. *Annual Review of Neuroscience, 16,* 667–706.

Gluck, M., & Myers, C. (1993). Hippocampal mediation of stimulus representation: A computational theory. *Hippocampus, 3,* 491–516.

Gluck, M., & Myers, C. (1995). Representation and association in memory: A neurocomputational view of hippocampal function. *Current Directions in Psychological Science, 4*(1), 23–29.

Gluck, M., & Myers, C. (1996). Integrating behavioral and physiological models of hippocampal function. *Hippocampus, 6,* 643–653.

Gluck, M., Myers, C., & Goebel, J. (1994). A computational perspective on dissociating hippocampal and entorhinal function (Response to Eichenbaum, et al.). *Behavioral and Brain Sciences, 17,* 478–479.

Gluck, M., Myers, C., & Thompson, R. (1994). A computational model of the cerebellum and motor-reflex conditioning. In S. Zornetzer, J. Davis, C. Lau, & T. McKenna (Eds.), *An Introduction to Neural and Electronic Networks* (pp. 91–98). New York: Academic Press.

Gluck, M., Oliver, L., & Myers, C. (1996). Late-training amnesic deficits in probabilistic category learning: A neurocomputational analysis. *Learning and Memory, 3,* 326–340.

Gollin, E. (1960). Developmental studies of visual recognition of incomplete objects. *Perceptual and Motor Skills*, *11*, 289–298.

Golomb, J., de Leon, M., Kluger, A., George, A., Tarshish, C., & Ferris, S. (1993). Hippocampal atrophy in normal aging: An association with recent memory impairment. *Archives of Neurology, 50*(9), 967–973.

Gómez-Isla, T., Price, J., McKeel, D., Morris, J., Growdon, J., & Hyman, B. (1996). Profound loss of layer II entorhinal cortex neurons occurs in very mild Alzheimer's Disease. *Journal of Neuroscience, 16*(14), 4491–4500.

Good, M., & Honey, R. (1991). Conditioning and contextual retrieval in hippocampal rats. *Behavioral Neuroscience, 105*(4), 499–509.

Goodall, S., Reggia, J., Chen, Y., Ruppin, E., & Whitney, C. (1997). A computational model of acute focal cortical lesions. *Stroke, 28*(1), 101–109.

Gorman, R. P., & Sejnowski, T. (1988). Analysis of hidden units in a layered network trained to classify sonar targets. *Neural Networks, 1*(1), 75–89.

Gormezano, I., Kehoe, E. J., & Marshall, B. S. (1983). Twenty years of classical conditioning research with the rabbit. *Progress in Psychobiology and Physiological Psychology, 10,* 197–275.

Granger, R., Ambros-Ingerson, J., Staubli, U., & Lynch, G. (1990). Memorial operation of multiple, interacting simulated brain structures. In M. A. Gluck & D. E. Rumelhart (Eds.), *Neuroscience and Connectionist Theory* (pp. 95–129). Hillsdale, NJ: Lawrence Erlbaum Associates.

Granger, R., Wiebe, S., Taketani, M., & Lynch, G. (1996). Distinct memory circuits comprising the hippocampal region. *Hippocampus, 6,* 567–578.

Grastyan, E., Lissak, K., Madarasz, I., & Donhoffer, H. (1959). Hippocampal electrical activity during the development of conditioned reflexes. *Electroencephalography and Clinical Neurophysiology, 11,* 409–430.

Gray, J. A. (1985). Memory buffer and comparator can share the same circuitry. *Behavioral and Brain Sciences, 8*(3), 501.

Grossberg, S. (1976). Adaptive pattern classification and recoding: Part I. *Biological Cybernetics, 23,* 121–134.

Grossberg, S. (1980). How does a brain build a cognitive code? *Psychological Review, 89,* 529–572.

Grossberg, S., & Merrill, J. (1996). The hippocampus and cerebellum in adaptively timed learning, recognition and movement. *Journal of Cognitive Neuroscience, 8*(3), 257–277.

Guigon, E., Grandguillaume, P., Otto, I., Boutkhil, L., & Burnod, Y. (1994). Neural network models of cortical functions based on the computational properties of the cerebral cortex. *Journal of Physiology (Paris), 88*, 291–308.

Guttman, N., & Kalish, H. (1956). Discriminability and stimulus generalization. *Journal of Experimental Psychology, 51,* 79–88.

Haberlandt, K. (1971). Transfer along a continuum in classical conditioning. *Learning and Motivation, 2,* 164–172.

Haist, F., Musen, G., & Squire, L. R. (1991). Intact priming of words and non-words in amnesia. *Psychobiology, 19*(4), 275–285.

Hall, G., & Channell, S. (1985). Differential effects of contextual change on latent inhibition and on the habituation of an orienting response. *Journal of Experimental Psychology: Animal Behavior Processes, 11*(3), 470–481.

Hall, G., & Honey, R. (1989). Contextual effects in conditioning, latent inhibition, and habituation: Associative and retrieval functions of contextual cues. *Journal of Experimental Psychology: Animal Behavior Processes, 15*(3), 232–241.

Hall, G., & Honey, R. (1990). Context-specific conditioning in the conditioned-emotional-response procedure. *Journal of Experimental Psychology: Animal Behavior Processes, 16*(3), 271–278.

Hall, G., & Minor, H. (1984). A search for context-stimulus associations in latent inhibition. *Quarterly Journal of Experimental Psychology, 36B,* 145–169.

Han, J.-S., Gallagher, M., & Holland, P. (1995). Hippocampal lesions disrupt decrements but not increments in conditioned stimulus processing. *Journal of Neuroscience, 15*(11), 7323–7329.

Han, J.-S., Gallagher, M., & Holland, P. (1998). Hippocampal lesions enhance configural learning by reducing proactive interference. *Hippocampus, 8,* 138–146.

Hanson, S. (1990). A stochastic version of the delta rule. *Physica D, 42,* 265–272.

Harnad, S., Hanson, S., & Lubin, J. (1994). Learned categorical perception in neural nets: Implications for symbol grounding. In V. Honavar & L. Uhr (Eds.), *Symbol Processors and Connectionist Network Models in Artificial Intelligence and Cognitive Modeling: Steps Toward Principled Integration* (pp. 191–206). New York: Academic Press.

Harvey, J., Gormezano, I., & Cool-Hauser, V. (1983). Effects of scopolamine and methylscopolamine on classical conditioning of the rabbit nictitating membrane response. *Journal of Pharmacology and Experimental Therapeutics, 225*(1), 42–49.

Hasselmo, M. (1995). Neuromodulation and cortical function: Modeling the physiological basis of behavior. *Behavioural Brain Research, 67,* 1–27.

Hasselmo, M., & Bower, J. (1993). Acetylcholine and memory. *Trends in Neurosciences, 16*(6), 218–222.

Hasselmo, M., Linster, C., Patil, M., Ma, D., & Cekic, M. (1997). Noradrenergic suppression of synaptic transmission may influence cortical "signal-to-noise" ratio. *Journal of Neurophysiology, 77,* 3326–3339.

Hasselmo, M., & Schnell, E. (1994). Laminar selectivity of the cholinergic suppression of synaptic transmission in rat hippocampal region CA1: Computational modeling and brain slice physiology. *Journal of Neuroscience, 14*(6), 3898–3914.

Hasselmo, M., Schnell, E., & Barkai, E. (1995). Dyamics of learning and recall at excitatory recurrent synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience, 15*(7), 5249–5262.

Hasselmo, M., Wyble, B., & Wallenstein, G. (1996). Encoding and retrieval of episodic memories: Role of cholinergic and GABAergic modulation in hippocampus. *Hippocampus, 6*(6), 693–708.

Hebb, D. (1949). *The Organization of Behavior.* New York: Wiley.

Hermann, B., Seidenberg, M., Schoenfeld, J., & Davies, K. (1997). Neuropsychological characteristics of the syndrome of mesial temporal lobe epilepsy. *Archives of Neurology, 54*(4), 369–376.

Hilgard, E., Atkinson, R., & Atkinson, R. (1975). *Introduction to Psychology* (6th ed.). New York: Harcourt, Brace, Jovanovich.

Hilgard, E., & Bower, G. (1975). *Theories of Learning* (4th ed.). Englewood Cliffs, NJ: Prentice Hall.

Hinton, G. (1989). Connectionist learning procedures. *Artificial Intelligence, 40,* 185–234.

Hinton, G. (1992). How neural networks learn from experience. *Scientific American,* September, 145–151.

Hirsh, R. (1974). The hippocampus and contextual retrieval of information from memory: A theory. *Behavioral Biology, 12,* 421–444.

Holland, P. (1992). Occasion setting in Pavlovian conditioning. In D. Medin (Ed.), *The Psychology of Learning and Motivation* (pp. 69–125). New York: Acadamic Press.

Holland, P. (1997). Brain mechanisms for changes in processing of conditioned stimuli in Pavlovian conditioning: Implications for behavior theory. *Animal Learning and Behavior, 25*(4), 373–399.

Honey, R., & Good, M. (1993). Selective hippocampal lesions abolish the contextual specificity of latent inhibition and conditioning. *Behavioral Neuroscience, 107*(1), 23–33.

Honey, R., & Hall, G. (1989). Acquired equivalence and distinctiveness of cues. *Journal of Experimental Psychology: Animal Behavior Processes, 15*(4), 338–346.

Honey, R., & Hall, G. (1991). Acquired equivalence and distinctiveness of cues using a sensory-preconditioning procedure. *Quarterly Journal of Experimental Psychology, 43B,* 121–135.

Honey, R., Willis, A., & Hall, G. (1990). Context specificity in pigeon autoshaping. *Learning and Motivation, 21,* 125–136.

Hornik, K., Stinchcombe, M., & White, H. (1989). Multilayer feedforward networks are universal approximators. *Neural Networks, 2,* 359–366.

Hsaio, S., & Isaacson, R. (1971). Learning of food and water positions by hippocampus damaged rats. *Physiology and Behavior, 6,* 81–83.

Hull, C. (1943). *Principles of Behavior.* New York: Appleton-Century-Crofts.

Hull, C. (1952). *A Behavior System: An Introduction to Behavior Theory Concerning the Individual Organism.* New Haven: Yale University Press.

Irle, E., Woura, B., Kunert, H., Hampl, J., & Kunze, S. (1992). Memory disturbances following anterior communicating artery rupture. *Annals of Neurology, 31*(5), 473–480.

Jacobs, R. A. (1988). Increased rates of convergence through learning rate adaptation. *Neural Networks, 1,* 295–307.

James, G., Hardiman, M., & Yeo, C. (1987). Hippocampal lesions and trace conditioning in the rabbit. *Behavioural Brain Research, 23*(2), 109–116.

James, W. (1890). *Psychology (Briefer Course).* New York: Holt.

Japkowicz, N. (1999) *Concept-learning in the absence of counter-examples: An Autoassociation-Based Approach to Classification.* Ph.D. Thesis, Rutgers University.

Japkowicz, N., Myers, C., & Gluck, M. (1995). A novelty detection approach to classification. In *Proceedings of the International Joint Conference on Artificial Intelligence,* Montreal: Morgan Kaufman Publishers.

Jarrard, L. (1989). On the use of ibotenic acid to lesion selectively different components of the hippocampal formation. *Journal of Neuroscience Methods, 29,* 251–259.

Jarrard, L. (1993). On the role of the hippocampus in learning and memory in the rat. *Behavioral and Neural Biology, 60,* 9–26.

Jarrard, L., & Davidson, T. (1991). On the hippocampus and learned conditional responding: Effects of aspiration versus ibotenate lesions. *Hippocampus, 1,* 107–117.

Jarrard, L., Okaichi, H., Steward, O., & Goldschmidt, R. (1984). On the role of hippocampal connections in the performance of place and cue tasks: Comparisons with damage to hippocampus. *Behavioral Neuroscience, 98*(6), 946–954.

Jenkins, W., Merzenich, M., Ochs, M., Allard, T., & Guic-Robles, E. (1990). Functional reorganization of primary somatosensory cortex in adult owl monkeys after behaviorally controlled tactile stimulation. *Journal of Neurophysiology, 63*(1), 82–104.

Jones, R. (1993). Entorhinal-hippocampal connections: A speculative view of their function. *Trends in Neurosciences, 16*(2), 58–64.

Juliano, S. (1998). Mapping the sensory mosaic. *Science, 279,* 1653–1714.

Kalat, J. (1995). *Biological Psychology* (5th ed). New York: Brooks/Cole.

Kamin, L. (1968). "Attention-like" processes in classical conditioning. In M. Jones (Ed.), *Miami Symposium on the Prediction of Behavior, 1967: Aversive stimulation* (pp. 9–32). Coral Gables, FL: University of Miami Press.

Kamin, L. (1969). Predictability, surprise, attention and conditoning. In B. Campbell & R. Church (Eds.), *Punishment and Aversive Behavior* (pp. 279–296). New York: Appleton-Century-Crofts.

Kandel, E. R. (1976). *Cellular Basis of Behavior*. San Francisco: W. H. Freeman & Co.

Kaneko, T., & Thompson, R. (1997). Disruption of trace conditioning of the nictitating membrane response in rabbits by central cholinergic blockade. *Psychopharmacology, 131,* 161–166.

Kapur, N. (1993). Focal retrograde amnesia in neurological disease: A critical review. *Cortex, 29,* 217–234.

Kaye, H., & Pearce, J. (1987). Hippocampal lesions attenuate latent inhibition and the decline of the orienting response in rats. *Quarterly Journal of Experimental Psychology, 39B,* 107–125.

Kehoe, E. J. (1988). A layered network model of associative learning. *Psychological Review, 95*(4), 411–433.

Kelso, S. R., Ganong, A. H., & Brown, T. H. (1986). Hebbian synapses in hippocampus. *Proceedings of the National Academy of Science USA, 83,* 5326–5330.

Kesner, R. (1988). Reevaluation of the contribution of the basal forebrain cholinergic system to memory. *Neurobiology of Aging, 9,* 609–616.

Kilgard, M., & Merzenich, M. (1998). Cortical map reorganization enabled by nucleus basalis activity. *Science, 279,* 1714–1718.

Killcross, A., Kiernan, M., Dwyer, D., & Westbrook, R. (1998a). Loss of latent inhibition of contextual conditioning following non-reinforced context exposure in rats. *Quarterly Journal of Experimental Psychology B, 51*(1), 75–90.

Killcross, A., Kiernan, M., Dwyer, D., & Westbrook, R. (1998b). Effects of retention interval on latent inhibition and perceptual learning. *Quarterly Journal of Experimental Psychology, 51*(1), 59–74.

Killiany, R., Moss, M., Albert, M., Sandoor, T., Tieman, J., & Jolesz, F. (1993). Temporal lobe regions on magnetic resonance imaging identify patients with early Alzheimer's disease. *Archives of Neurology, 50,* 949–954.

Kim, J. J., & Fanselow, M. S. (1992). Modality-specific retrograde amnesia of fear. *Science, 256,* 675–677.

Kim, J., Krupa, D., & Thompson, R. (1998). Inhibitory cerebello-olivary projections and blocking effect in classical conditioning. *Science, 279,* 570–573.

Kimble, D. P. (1968). Hippocampus and internal inhibition. *Psychological Bulleting, 70*(5), 285–295.

Knapp, M., Knopman, D., Solomon, P., Pendlebury, W., Davis, C., & Gracon, S. (1994). A 30–week randomized controlled trial of high-dose Tacrine in patients with Alzheimer's Disease. *Journal of the American Medical Association, 271*(13), 985–991.

Knowlton, B., Ramus, S., & Squire, L. (1992). Intact artificial grammar learning in amnesia: Dissociation of classification learning and explicit memory for specific instances. *Psychological Science, 3*(3), 172–179.

Knowlton, B., Squire, L., & Gluck, M. (1994). Probabilistic classification learning in amnesia. *Learning and Memory, 1,* 106–120.

Kohonen, T. (1984). *Self-Organization and Associative Memory*. New York: Springer-Verlag.

Kohonen, T. (1988). The "neural" phonetic typewriter. *IEEE Computer, 21,* 11–22.

Kohonen, T., & Hari, R. (1999). Where the abstract feature maps of the brain might come from. *Trends in the Neurosciences, 22*(3), 135–139.

Konorski, J. (1967). *Integrative activity of the brain: An interdisciplinary approach.* Chicago: University of Chicago Press.

Kopelman, M., & Corn, T. (1988). Cholinergic "blockade" as a model for cholinergic depletion: A comparison of the memory deficits with those of Alzheimer-type dementia and the alcoholic Korsakoff syndrome. *Brain, 111* (part 5), 1079–1110.

Kraemer, P., & Roberts, W. (1984). The influence of flavor preexposure and test interval on conditioned taste aversions in the rat. *Learning and Motivation, 15,* 259–278.

Krnjevic, K., & Ropert, N. (1982). Electrophysiological and pharmacological characteristics of facilitation of hippocampal populations spikes by stimulation of the medial septum. *Neuroscience, 7*(9), 2165–2183.

Kronforst-Collins, M., Moriearty, P., Ralph, M., Becker, R., Schmidt, B., Thompson, L., & Disterhoft, J. (1997). Metrifonate treatment enhances acquisition of eyeblink conditioning in aging rabbits. *Pharmacology, Biochemistry and Behavior, 56*(1), 103–110.

Kubie, J. L., & Ranck, J. B., Jr. (1983). Sensory-behavioral correlates in individual hippocampus neurons in three situations: Space and context. In W. Seifert (Ed.), *Neurobiology of the Hippocampus* (pp. 433–447). London: Academic Press.

Kuffler, S., Nicholls, J., & Martin, A. (1984). *From Neuron to Brain: A Cellular Approach to the Function of the Nervous System.* Sunderland, MA: Sinauer Associates.

Lamour, Y., Dutar, P., & Jobert, A. (1984). Septo-hippocampal and other medial septum-diagonal band neurons: Electrophysiological and pharmacological properties. *Brain Research, 309*(2), 227–239.

Lashley, K. (1950). In search of the engram. In *Physiological Mechanisms in Animal Behavior: Symposium of the Society for Experimental Biology.* New York: Academic Press.

Lawrence, D. H. (1952). The transfer of a discrimination along a continuum. *Journal of Comparative and Physiological Psychology, 45,* 511–516.

Le Cun, Y. (1986). Learning processes in an asymmetric threshold network. In E. Bienenstock, F. Fogelman Souli, & G. Weisbuch (Eds.), *Disordered Systems and Biological Organization.* Berlin: Springer-Verlag.

LeDoux, J. (1993). Emotional memory systems in the brain. *Behavioural Brain Research, 58,* 69–79.

Lee, M., Chrobak, J., Sik, A., Wiley, R., & Buzsáki, G. (1994). Hippocampal theta activity following selective lesion of the septal cholinergic system. *Neuroscience, 62*(4), 1033–1047.

Levy, W. (1985). An information/computation theory of hippocampal function. *Society for Neuroscience Abstracts, 11,* 493.

Levy, W. (1989). A computational approach to hippocampal function. In R. Hawkins & G. Bower (Eds.), *Psychology of Learning and Motivation* (pp. 243–304). London: Academic Press.

Levy, W. (1990). Hippocampal theories and the information/computation perspective. In L. Erinoff (Ed.), *NIDA Monographs: Neurobiology of Drug Abuse: Learning and Memory* (pp. 116–125). Rockville, MD: U.S. Department of Health and Human Services, National Institute on Drug Abuse.

Levy, W. (1994). Unification of hippocampal function via computational considerations. In *Proceedings of the World Congress on Neural Networks, 1994,* (vol. 4, pp. IV-661–IV-666). San Diego.

Levy, W. (1996). A sequence predicting CA3 is a flexible associator that learns and uses context to solve hippocampal-like tasks. *Hippocampus, 6,* 579–590.

Levy, W., Brassel, S. E., & Moore, S. D. (1983). Partial quantification of the associative synaptic learning rule of the dentate gyrus. *Neuroscience, 8*(4), 799–808.

Levy, W., & Steward, O. (1983). Temporal contiguity requirements for long-term potentiation/depression in the hippocampus. *Neuroscience, 8*(4), 791–797.

Lopes da Silva, F., Groenewegen, H., Holsheimer, J., Room, P., Witter, M., van Groen, T., & Wadman, W. (1985). The hippocampus as a set of partially overlapping segments with a topographically organized system of inputs and outputs: The entorhinal cortex as a sensory gate, the medial septum as a gain-setting system and the ventral striatum as a motor interface. In G. Buzsáki & C. Vanderwolf (Eds.), *Electrical Activity of the Archicortex* (pp. 83–106). Budapest: Akademiai Kiado.

Lubow, R. (1973). Latent Inhibition. *Psychological Bulletin, 79,* 398–407.

Lubow, R. (1997). Latent inhibition as a measure of learned inattention: Some problems and solutions. *Behavioural Brain Research, 88,* 75–83.

Lubow, R., & Gewirtz, J. (1995). Latent inhibition in humans: Data, theory and implications for schizophrenia. *Psychological Bulletin, 117*(1), 87–103.

Lubow, R., Rifkin, B., & Alek, M. (1976). The context effect: The relationship between stimulus pre-exposure and environmental pre-exposure determines subsequent learning. *Journal of Experimental Psychology: Animal Behavior Processes,* 2(1), 38–47.

Lynch, G. (1986). *Synapses, Circuits and the Beginnings of Memory.* London: MIT Press.

Lynch, G., & Granger, R. (1992). Variations in synaptic plasticity and types of memory in corticohippocampal networks. *Journal of Cognitive Neuroscience, 4*(3), 189–199.

Lytton, W., & Sejnowski, T. (1991). Simulations of cortical pyramidal neurons synchronized by inhibitory interneurons. *Journal of Neurophysiology, 66*(3), 1059–1079.

Mackintosh, N. (1973). Stimulus selection: Learning to ignore stimuli that predict no change in reinforcement. In R. Hinde & J. Stevenson-Hinde (Eds.), *Constraints on Learning: Limitations and Predispositions* (pp. 75–96). New York: Academic Press.

Mackintosh, N. J. (1975). A theory of attention: Variations in the associability of stimuli with reinforcement. *Psychological Review, 82*(4), 276–298.

Mackintosh, N. J., & Little, L. (1970). An analysis of transfer along a continuum. *Canadian Journal of Psychology, 24*(5), 362–369.

Manning, F. (1994). Tacrine therapy for the dementia of Alzheimer's Disease. *American Family Physician, 50*(4), 819–826.

Maran, S., & Baudry, M. (1995). Properties and mechanisms of long-term synaptic plasticity in the mammalian brain: Relationships to learning and memory. *Neurobiology of Learning and Memory, 63,* 1–18.

Marchant, H., & Moore, J. (1973). Blocking of the rabbit's conditioned nictitating membrane response in Kamin's two-stage paradigm. *Journal of Experimental Psychology, 101*(1), 155–158.

Markowska, A., Olton, D., & Givens, B. (1995). Cholinergic manipulations in the medial septal area: Age-related effects on working memory and hippocampal electrophysiology. *Journal of Neuroscience, 15*(3, Pt. 1), 2063–2073.

Marr, D. (1969). A theory of cerebellar cortex. *Journal of Physiology, 202*(2), 437–470.

Marr, D. (1970). A theory for cerebral neocortex. *Proceedings of the Royal Society of London, B176*(43), 161–234.

Marr, D. (1971). Simple memory: A theory for archicortex. *Proceedings of the Royal Society, London, B262*(841), 23–81.

Marsh, G. (1969). An evaluation of three explanations for the transfer of discrimination effect. *Journal of Comparative and Physiological Psychology, 68*(2), 268–275.

Marston, H., Everitt, B., & Robbins, T. (1993). Comparative effects of excitotoxic lesions of the hippocampus and septum/diagonal band on conditional visual discrimination and spatial learning. *Neuropsychologia, 31*(10), 1099–1118.

Martin, I., & Levey, A. (1991). Blocking observed in human eyelid conditioning. *Quarterly Journal of Experimental Psychology B: Comparative and Physiological Psychology, 43*(3), 233–256.

Masur, D., Sliwinski, M., Lipton, R., Blau, A., & Crystal, H. (1994). Neuropsychological prediction of dementia and the absence of dementia in healthy elderly persons. *Neurology, 44,* 1427–1432.

Mazzoni, P., Andersen, R., & Jordan, M. (1991). A more biologically plausible learning rule for neural networks. *Proceedings of the National Academy of Sciences USA, 88,* 4433–4437.

McClelland, J., McNaughton, B., & O'Reilly, R. (1994). *Why we have complementary learning systems in the hippocampus and neocortex: Insights from the successes and failures of connectionist*

models of learning and memory (Technical Report PDP.CNS.94.1). Pittsburgh: Carnegie Mellon University.

McCulloch, W., & Pitts, W. (1943). A logical calculus of the ideas immanent in nervous activity. *Bulletin of Mathematical Biophysics, 5,* 115–133.

McFarland, D., Kostas, J., & Drew, W. (1978). Dorsal hippocampal lesions: Effects of preconditioning CS exposure on flavor aversion. *Behavioral Biology, 22,* 398–404.

McIntosh, S., & Tarpy, R. (1977). Retention of latent inhibition in a taste-aversion paradigm. *Bulletin of the Psychonomic Society, 9,* 411–412.

McNaughton, B., & Barnes, C. (1990). From cooperative synaptic enhancement to associative memory: Bridging the abyss. *Seminars in the Neurosciences, 2,* 403–416.

McNaughton, B., & Morris, R. (1987). Hippocampal synaptic enhancement and information storage. *Trends in Neuroscience, 10*(10), 408–415.

McNaughton, B., & Nadel, L. (1990). Hebb-Marr networks and the neurobiological representation of action in space. In M. Gluck & D. Rumelhart (Eds.), *Neuroscience and Connectionist Theory* (pp. 1–63). Hillsdale, NJ: Lawrence Erlbaum Associates.

Merzenich, M., Kaas, J., Wall, J., Nelson, R., Sur, M., & Felleman, D. (1983). Topographic reorganization of somatosensory cortical areas 3b and 1 in adult monkeys following restricted deafferentation. *Neuroscience, 8,* 33–55.

Meyer, J. (1996). Hippocampal acetylcholine increases during eyeblink conditioning in the rabbit. *Physiology and Behavior, 60*(5), 1199–1203.

Micco, D., & Schwartz, M. (1997). Effects of hippocampal lesions upon the development of Pavlovian internal inhibition in rats. *Journal of Comparative and Physiological Psychology, 76*(3), 371–377.

Mighell, D., Wilkinson, T., & Goodman, J. (1989). Backpropagation and its application to handwritten signature verification. In D. Touretzky (Ed.), *Advances in Neural Information Processing Systems I* (pp. 340–347). San Mateo, CA: Morgan Kaufmann.

Miller, D., & Steinmetz, J. (1997). Hippocampal activity during classical discrimination-reversal eyeblink conditioning in rabbits. *Behavioral Neuroscience, 111*(1), 70–79.

Miller, L., Munoz, D., & Finmore, M. (1993). Hippocampal sclerosis and human memory. *Archives of Neurology, 50*(4), 391–394.

Miller, R., Barnet, R., & Grahame, N. (1995). Assessment of the Rescorla-Wagner Model. *Psychological Bulletin, 117*(3), 363–386.

Milner, B. (1962). Les troubles de la memoire accompagnant des lesions hippocampiques bilaterales. In P. Passouant (Ed.), *Physiologie de l'hippocampe.* Paris: Centre National de la Recherche Scientifique.

Milner, B., Corkin, S., & Teuber, J. (1968). Further analysis of the hippocampal amnesic syndrome: A 14–year follow-up study of HM. *Neuropsychologia, 6,* 215–234.

Minsky, M., & Papert, S. (1969). *Perceptrons.* Cambridge, MA: MIT Press.

Minsky, M., & Papert, S. (1998). *Perceptrons: Expanded Edition.* Cambridge, MA: MIT Press.

Mishkin, M. (1978). Memory in monkeys severely disrupted by combined but not by separate removal of amygdala and hippocampus. *Nature, 273,* 297–299.

Mishkin, M. (1982). A memory system in the monkey. *Philosophical Transactions of the Royal Society of London [Biology], 298,* 85–92.

Mishkin, M., & Delacour, J. (1975). An analysis of short-term visual memory in the monkey. *Journal of Experimental Psychology: Animal Behavior Processes, 1*(4), 326–334.

Mishkin, M., & Pribam, K. (1954). Visual discrimination performance following partial ablation of the temporal lobe. I: Ventral vs. lateral. *Journal of Comparative and Physiological Psychology, 47,* 14–20.

Mishkin, M., Vargha-Khadem, F., & Gadian, D. (1998). Amnesia and the organization of the hippocampal system. *Hippocampus, 8,* 212–216.

Miyamoto, M., Narumi, S., Nagaoka, A., & Coyle, J. (1989). Effects of continuous infusion of cholinergic drugs on memory impairment in rats with basal forebrain lesions. *Journal of Pharmacology and Experimental Therapy, 248*(2), 825–835.

Montague, P., Dayan, P., & Sejnowski, T. (1996). A framework for mesencephalic dopamine systems based on predictive Hebbian learning. *Journal of Neuroscience, 16*(5), 1936–1947.

Moore, J. (1979). Brain processes and conditioning. In A. Dickinson & R. Boakes (Eds.), *Mechanisms of Learning and Behavior* (pp. 111–142). Hillsdale, NJ: Lawrence Erlbaum Associates.

Moore, J., Goodell, N., & Solomon, P. (1976). Central cholinergic blockade by scopolamine and habituation, classical conditioning, and latent inhibition of the rabbit's nictitating membrane response. *Physiological Psychology, 4*(3), 395–399.

Moore, J., & Stickney, K. (1980). Formation of attentional-associative networks in real time: Role of the hippocampus and implications for conditioning. *Physiological Psychology, 8*(2), 207–217.

Morris, M., Bowers, D., Chatterjee, A., & Heilman, K. (1992). Amnesia following a discrete basal forebrain lesion. *Brain, 115,* 1827–1847.

Morris, R. (1983). An attempt to dissociate "spatial-mapping" and "working-memory" theories of hippocampal function. In W. Seifert (Ed.), *Neurobiology of the Hippocampus* (pp. 405–432). London: Academic Press.

Morris, R., Garrud, P., Rawlins, J., & O'Keefe, J. (1982). Place navigation impaired in rats with hippocampal lesions. *Nature, 297,* 681–683.

Mountcastle, V. (1979). An organizing principle for cerebral function: The unit module and the distributed system. In F. Schmitt & F. Worden (Eds.), *The Neurosciences: Fourth Study Program* (pp. 21–42). Cambridge, MA: MIT Press.

Moyer, J., Deyo, R., & Disterhoft, J. (1990). Hippocampectomy disrupts trace eye-blink conditioning in rabbits. *Behavioral Neuroscience, 104*(2), 243–252.

Muller, R., & Stead, M. (1996). Hippocampal place cells connected by Hebbian synapses can solve spatial problems. *Hippocampus, 6*(6), 709–719.

Mumby, D., Pinel, J., & Wood, E. (1990). Non-recurring-items delayed nonmatching-to-sample in rats: A new paradigm for testing nonspatial working memory. *Psychobiology, 18*(3), 321–326.

Murre, J. (1996). TraceLink: A model of amnesia and consolidation of memory. *Hippocampus, 6*(6), 675–684.

Myers, C., DeLuca, J., Schultheis, M., Schnirman, G., Ermita, B., Diamond, B., Warren, S., & Gluck, M. (in preparation). Impaired eyeblink classical conditioning in individuals with anterograde amnesia resulting from anterior communicating artery aneurysm.

Myers, C., Ermita, B., Harris, K., Hasselmo, M., Solomon, P., & Gluck, M. (1996). A computational model of the effects of septohippocampal disruption on classical eyeblink conditioning. *Neurobiology of Learning and Memory, 66,* 51–66.

Myers, C., Ermita, B., Hasselmo, M., & Gluck, M. (1998). Further implications of a computational model of septohippocampal cholinergic modulation in eyeblink conditioning. *Psychobiology, 26*(1), 1–20.

Myers, C., & Gluck, M. (1994). Context, conditioning and hippocampal re-representation. *Behavioral Neuroscience, 108*(5), 835–847.

Myers, C., & Gluck, M. (1996). Cortico-hippocampal representations in simultaneous odor discrimination learning: A computational interpretation of Eichenbaum, Mathews & Cohen (1989). *Behavioral Neuroscience, 110*(4), 685–706.

Myers, C., Gluck, M., & Granger, R. (1995). Dissociation of hippocampal and entorhinal function in associative learning: A computational approach. *Psychobiology, 23*(2), 116–138.

Myers, C., Hopkins, R., Kesner, R., & Gluck, M. (2000). Localized hippocampal damage impairs acquisition, but not reversal, of a spatial discrimination in humans. *Psychobiology, 28*(3).

Myers, C., Kluger, A., Golomb, J., Ferris, S., de Leon, M., & Gluck, M. (1998). Predicting risk for Alzheimer's Dementia with a feature-irrelevant transfer task. *Abstracts of the Society for Neuroscience Annual Meeting (Los Angeles, CA),* 2116.

Myers, C., Kluger, A., Golomb, J., Ferris, S., de Leon, M., Schnirman, G., & Gluck, M. (in preparation). Hippocampal atrophy disrupts transfer generalization in non-demented elderly subjects.

Myers, C., McGlinchey-Berroth, R., Warren, S., Monti, L., Brawn, C., & Gluck, M. (2000). Latent learning in medial temporal amnesia: Evidence for disrupted representational but preserved attentional processes. *Neuropsychology, 14,* 3–15.

Myers, C., Oliver, L., Warren, S., & Gluck, M. (2000). Stimulus exposure effects in human associative learning. *Quarterly Journal of Experimental Psychology, 53B,* 173–187.

Nadel, L. (1991). The hippocampus and space revisited. *Hippocampus, 1*(3), 221–229.

Nadel, L. (1992). Multiple memory systems: What and why. *Journal of Cognitive Neuroscience, 4*(3), 179–188.

Nadel, L., & Willner, J. (1980). Context and conditioning: A place for space. *Physiological Psychology, 8*(2), 218–228.

Neimark, E., & Estes, W. (Eds.) (1967) *Stimulus Sampling Theory.* San Francisco: Holden-Day.

Nguyen, D., & Widrow, B. (1989). The truck backer-upper: An example of self-learning in neural networks. In *Proceedings of the International Joint Conference on Neural Networks IJCNN-90* (vol. II, pp. 357–363). Washington, DC.

Nosofsky, R. (1984). Choice, similarity, and the context theory of classification. *Journal of Experimental Psychology: Learning, Memory and Cognition, 10,* 104–114.

Nosofsky, R. (1988). Exemplar-based accounts of relations between classification, recognition and typicality. *Journal of Experimental Psychology: Learning, Memory and Cognition, 14*(4), 700–708.

Nudo, R., Milliken, G., Jenkins, W., & Merzenich, M. (1996). Use-dependent alterations of movement representations in primary motor cortex of adult squirrel monkeys. *Journal of Neuroscience, 16*(2), 785–807.

Ogura, H., & Aigner, T. (1993). MK-801 impairs recognition memory in Rhesus monkeys: Comparison with cholinergic drugs. *Journal of Pharmacology and Experimental Therapeutics, 266,* 60–64.

O'Keefe, J. (1979). A review of the hippocampal place cells. *Progress in Neurobiology, 13,* 419–439.

O'Keefe, J. (1983). Spatial memory within and without the hippocampal system. In W. Seifert (Ed.), *Neurobiology of the Hippocampus* (pp. 375–403). London: Academic Press.

O'Keefe, J. (1990). A computational theory of the hippocampal cognitive map. In J. Storm-Mathisen, J. Zimmer, & O. Ottersen (Eds.), *Progress in Brain Research* (vol. 83, pp. 301–312). New York: Elsevier Science.

O'Keefe, J., & Nadel, L. (1978). *The Hippocampus as a Cognitive Map.* Oxford: Clarendon University Press.

Oliver, A. (1988). Risk and benefit in the surgery of epilepsy: Complications and positive results on seizure and intellectual function. *Acta Neurologica Scandinavia, 78* (suppl. 117), 114–121.

Olton, D. (1983). Memory functions and the hippocampus. In W. Seifert (Ed.), *Neurobiology of the Hippocampus* (pp. 335–373). London: Academic Press.

O'Reilly, R., & McClelland, J. (1994). Hippocampal conjunctive encoding, storage, and recall: Avoiding a tradeoff. *Hippocampus, 4,* 661–682.

Oscar-Berman, M., & Zola-Morgan, S. (1980). Comparative neuropsychology and Korsakoff's syndrome. I: Spatial and visual reversal learning. *Neuropsychologia, 18,* 499–512.

Otto, T., Cousens, G., & Rajewski, K. (1997). Odor-guided fear conditioning in rats. 1: Acquisition, retention and latent inhibition. *Behavioral Neuroscience, 111*(6), 1257–1264.

Otto, T., & Eichenbaum, H. (1992). Complementary roles of the orbital prefrontal cortex and the perirhinal-entorhinal cortices in an odor-guided delayed-nonmatching-to-sample task. *Behavioral Neuroscience, 106*(5), 762–775.

Otto, T., Schottler, F., Staubli, U., Eichenbaum, H., & Lynch, G. (1991). Hippocampus and olfactory discrimination learning: Effects of entorhinal cortex lesions on olfactory learning and memory in a successive-cue, go-no-go task. *Behavioral Neuroscience, 105*(1), 111–119.

Owens, F. (1993). *Signal Processing of Speech.* New York: McGraw Hill.

Parker, D. (1985). *Learning Logic.* Cambridge, MA: MIT, Center for Computational Research in Economics and Management Science.

Parkin, A., Leng, N., & Stanhope, N. (1988). Memory impairment following ruptured aneurysm of the anterior communicating artery. *Brain and Cognition, 7,* 231–243.

Pavlov, I. (1927). *Conditioned Reflexes.* London: Oxford University Press.

Pearce, J., & Hall, G. (1980). A model for Pavlovian learning: Variations in the effectiveness of conditioned but not of unconditioned stimuli. *Psychological Review, 87,* 532–552.

Penick, S., & Solomon, P. (1991). Hippocampus, context and conditioning. *Behavioral Neuroscience, 105*(5), 611–617.

Pennartz, C. (1996). The ascending neuromodulatory systems in learning by reinforcement: Comparing computational conjectures with experimental findings. *Brain Research Reviews, 21,* 219–245.

Peterson, R. (1977). Scopolamine induced learning failures in man. *Psychopharmacologia, 52,* 283–289.

Pinto Hamuy, T., Santibanez, G., Gonzales, C., & Vicencio, E. (1957). Changes in behavior and visual discrimination preferences after selective ablations of the temporal cortex. *Journal of Comparative and Physiological Psychology, 50,* 379–385.

Pitton, J. W., Wang, K., & Juang, B.-H. (1996). Time-frequency analysis and auditory modeling for automatic speech recognition. *Proceedings of the IEEE, 84,* 1199–1214.

Port, R., Beggs, A., & Patterson, M. (1987). Hippocampal substrate of sensory associations. *Physiology and Behavior, 39,* 643–647.

Port, R., & Patterson, M. (1984). Fimbrial lesions and sensory preconditioning. *Behavioral Neuroscience, 98,* 584–589.

Port, R., Romano, A., & Patterson, M. (1986). Stimulus duration discrimination in the rabbit: Effects of hippocampectomy on discrimination and reversal learning. *Physiological Psychology, 4*(3, 4), 124–129.

Powell, D., Hernandez, L., & Buchanan, S. (1985). Intraseptal scopolamine has differential effects on Pavlovian eye blink and heart rate conditioning. *Behavioral Neuroscience, 99*(1), 75–87.

Price, J. (1973). An autoradiographic study of complementary laminar patterns of termination of afferent fiber to the olfactory cortex. *Journal of Comparative Neurology, 150,* 87–108.

Purves, D., Bonardi, C., & Hall, G. (1995). Enhancement of latent inhibition in rats with electrolytic lesions of the hippocampus. *Behavioral Neuroscience, 109*(2), 366–370.

Ramachandran, R., & Mammone, R. (Eds.). (1995). *Modern Methods of Speech Processing*. New York: Kluwer Academic Publishing.

Rasmusson, D. (1982). Reorganization of raccoon somatosensory cortex following removal of the fifth digit. *Journal of Comparative Neurology, 205,* 313–326.

Rawlins, J. (1985). Associations across time: The hippocampus as a temporary memory store. *Behavioral and Brain Sciences, 8,* 479–496.

Recce, M., & Harris, K. (1996). Memory for places: A navigational model in support of Marr's theory of hippocampal function. *Hippocampus*, *6*, 735–748.

Redish, A. (1999). *Beyond the Cognitive Map: From Place Cells to Episodic Memory.* Cambridge, MA: MIT Press.

Redish, A., & Touretzky, D. (1997). Cognitive maps beyond the hippocampus. *Hippocampus, 7*(1), 15–35.

Reed, J., Squire, L., Patalano, A., Smith, E., & Jonides, J. (1999). Learning about categories that are defined by object-like stimuli despite impaired declarative memory. *Behavioral Neuroscience, 113,* 411–419.

Reed, R., & Marks, R. (1999). *Neural Smithing: Supervised Learning in Artificial Neural Networks.* Cambridge, MA: MIT Press.

Reilly, S., Harley, C., & Revusky, S. (1993). Ibotenate lesions of the hippocampus enhance latent inhibition in conditioned taste aversion and increase resistance to extinction in conditioned taste preference. *Behavioral Neuroscience, 107*(6), 996–1004.

Reiss, S., & Wagner, A. (1972). CS habituation produces a "latent inhibition effect" but no active "conditioned inhibition". *Learning and Motivation, 3,* 237–245.

Rescorla, R. (1976). Stimulus generalization: Some predictions from a model of Pavlovian conditioning. *Journal of Experimental Psychology: Animal Behavior Processes, 2*(1), 88–96.

Rescorla, R., & Wagner, A. (1972). A theory of Pavlovian conditioning: Variations in the effectiveness of reinforcement and non-reinforcement. In A. Black & W. Prokasy (Eds.), *Classical Conditioning II: Current Research and Theory* (pp. 64–99). New York: Appleton-Century-Crofts.

Rickert, E., Bennett, T., Lane, P., & French, J. (1978). Hippocampectomy and the attenuation of blocking. *Behavioral Biology, 22,* 147–160.

Rickert, E., Lorden, J., Dawson, R., & Smyly, E. (1981). Limbic lesions and the blocking effect. *Physiology and Behavior, 26,* 601–606.

Ridley, R., Timothy, C., Maclean, C., & Baker, H. (1995). Conditional learning and memory impairments following neurotoxic lesion of the CA1 field in hippocampus. *Neuroscience, 67*(2), 263–275.

Robinson, T., Bodruzzaman, M., & Malkani, M. (1994). Search for an improved time-frequency technique for neural network-based helicopter gearbox fault detection and classification. In *World Congress on Neural Networks* (vol. 2, pp. 238–243). San Diego.

Rogers, S., Friedhoff, L., & the Donepezil Study Group (1996). The efficacy and safety of donepezil in patients with Alzheimer's disease: Results of a US multicentre, randomized, double-blind, placebo-controlled trial. *Dementia, 7,* 293–303.

Rokers, B., Myers, C., & Gluck, M. (2000). A dynamic model of learning in the septo-hippocampal system. *Neurocomputing*, *32–33*, 501–507.

Rolls, E. (1989). Functions of neuronal networks in the hippocampus and cerebral cortex in memory. In R. Cotterill (Ed.), *Models of Brain Function* (pp. 15–33). New York: Cambridge University Press.

Rolls, E. (1996). A theory of hippocampal function in memory. *Hippocampus, 6,* 601–620.

Roman, F., Staubli, U., & Lynch, G. (1987). Evidence for synaptic potentiation in a cortical network during learning. *Brain Research, 418,* 221–226.

Rosas, J., & Bouton, M. (1997). Additivity of the effects of retention interval and context change on latent inhibition: Toward resolution of the context forgetting paradox. *Journal of Experimental Psychology: Animal Behavior Processes, 23*(3), 283–294.

Rosenblatt, F. (1958). The perceptron: A probabilistic model for information storage and organization in the brain. *Psychology Review, 65,* 386–408.

Rothblat, L., & Kromer, L. (1991). Object recognition memory in the rat: The role of the hippocampus. *Behavioural Brain Research, 42,* 25–32.

Rudy, J. (1974). Stimulus selection in animal conditioning and paired-associate learning: Variation in associative processing. *Journal of Verbal Learning and Verbal Behavior, 13,* 282–296.

Rudy, J., & Sutherland, R. (1989). The hippocampal formation is necessary for rats to learn and remember configural discriminations. *Behavioural Brain Research, 34,* 97–109.

Rudy, J., & Sutherland, R. (1995). Configural association theory and the hippocampal formation: An appraisal and reconfiguration. *Hippocampus, 5,* 375–398.

Rumelhart, D., Hinton, G., & Williams, R. (1986). Learning internal representations by error propagation. In D. Rumelhart & J. McClelland (Eds.), *Parallel Distributed Processing: Explorations in the Microstructure of Cognition* (pp. 318–362). Cambridge, MA: MIT Press.

Rumelhart, D., & Zipser, D. (1985). Feature discovery by competitive learning. *Cognitive Science, 9,* 75–112.

Sachdev, R., Lu, S.-M., Wiley, R., & Ebner, F. (1998). Role of the basal forebrain cholinergic projection in somatosensory cortical plasticity. *Journal of Neurophysiology, 79,* 3216–3228.

Salafia, W., Romano, A., Tynan, T., & Host, K. (1977). Disruption of rabbit (*Oryctolagus cuniculus*) nictitating membrane conditioning by posttrial electrical stimulation of hippocampus. *Physiology and Behavior, 18,* 207–212.

Samsonovich, A., & McNaughton, B. (1997). Path integration and cognitive mapping in a continuous attractor network model. *Journal of Neuroscience, 17*(15), 5900–5920.

Santibanez, G., & Pinto Hamuy, T. (1957). Olfactory discrimination deficits in monkeys with temporal lobe ablations. *Journal of Comparative and Physiological Psychology, 50,* 472–474.

Schacter, D. (1985). Multiple forms of memory in humans and animals. In N. Weinberger, J. McGaugh, & G. Lynch (Eds.), *Memory Systems of the Brain: Animal and Human Cognitive Processes* (pp. 351–379). New York: Guildford Press.

Schacter, D., Harbluk, J., & McLachlan, D. (1984). Retrieval without recollection: An experimental analysis of source amnesia. *Journal of Verbal Learning and Verbal Behavior, 23,* 593–611.

Schmajuk, N. (1994). Stimulus configuration, classical conditioning, and spatial learning: Role of the hippocampus. In *World Congress on Neural Networks* (vol. 2, pp. II723–II728). San Diego: INNS Press.

Schmajuk, N., & Blair, H. (1993). Stimulus configuration, spatial learning and hippocampal function. *Behavioural Brain Research, 59,* 1–15.

Schmajuk, N., & Buhusi, C. (1997). Stimulus configuration, occasion setting and the hippocampus. *Behavioral Neuroscience, 111*(2), 235–258.

Schmajuk. N., & DiCarlo, J. (1990). *Backpropagation, classical conditioning and hippocampal function.* Chicago: Northwestern University.

Schmajuk, N., & DiCarlo, J. (1991). A neural network approach to hippocampal function in classical conditioning. *Behavioral Neuroscience, 105*(1), 82–110.

Schmajuk, N., & DiCarlo, J. (1992). Stimulus configuration, classical conditioning and hippocampal function. *Psychological Review, 99,* 268–305.

Schmajuk, N., Gray, J., & Lam, Y.-W. (1996). Latent inhibition: A neural network approach. *Journal of Experimental Psychology: Animal Behavior Processes, 22*(3), 321–349.

Schmajuk, N., Lam, Y.-W., & Christiansen, B. (1994). Latent inhibition of the rat eyeblink response: Effect of hippocampal aspiration lesions. *Physiology and Behavior, 55*(3), 597–601.

Schmajuk, N., & Moore, J. (1985). Real-time attentional models for classical conditioning. *Physiological Psychology, 13*(4), 278–290.

Schmajuk, N., & Moore, J. (1988). The hippocampus and the classically conditioned nictitating membrane response: A real-time attentional model. *Psychobiology, 16*(1), 20–35.

Schmajuk, N., Thieme, A., & Blair, H. (1993). Maps, routes, and the hippocampus: A neural network approach. *Hippocampus, 3*(3), 387–400.

Schmaltz, L., & Theios, J. (1972). Acquisition and extinction of a classically conditioned response in hippocampectomized rabbits (*Oryctolagus cuniculus*). *Journal of Comparative and Physiological Psychology, 79,* 328–333.

Schnider, A., Gutbrod, K., Hess, C., & Schroth, G. (1996). Memory without the context: Amnesia with confabulations after infarction of the right capsular genu. *Journal of Neurology, Neurosurgery and Psychiatry, 61*(2), 186–193.

Schultz, W., Dayan, P., & Montague, P. (1997). A neural substrate of prediction and reward. *Science, 275,* 1593–1599.

Scoville, W., & Milner, B. (1957). Loss of recent memory after bilateral hippocampal lesions. *Journal of Neurology, Neurosurgery and Psychiatry, 20,* 11–21.

Sears, L., & Steinmetz, J. (1991). Dorsal accessory olive activity diminishes during acquisition of the rabbit classically conditioned eyelid response. *Brain Research, 545*(1–2), 114–122.

Segal, M., & Olds, J. (1973). Activity of units in the hippocampal circuit of the rat during differential classical conditioning. *Journal of Comparative and Physiological Psychology, 82*(2), 195–204.

Seifert, W. (1983). In W. Seifert (Ed.), *Neurobiology of the Hippocampus* (p. 625). New York: Academic Press.

Sejnowski, T., & Rosenberg, C. (1986). *NETtalk: A parallel network that learns to read aloud* (JHU Technical Report No. JHU/EECS-86/01). Baltimore: Johns Hopkins University.

Selden, N., Everitt, B., Jarrard, L., & Robbins, T. (1991). Complementary roles for the amygdala and hippocampus in aversive conditioning to explicit and contextual cues. *Neuroscience, 42*(2), 335–350.

Sevush, S., Guterman, A., & Villalon, A. (1991). Improved verbal learning after outpatient oral physostigmine therapy in patients with dementia of the Alzheimer type. *Journal of Clinical Psychiatry, 52*(7), 300–303.

Sharp, P., Blair, H., & Brown, M. (1996). Neural network modeling of the hippocampal formation spatial signals and their possible role in navigation: A modular approach. *Hippocampus, 6*(6), 720–734.

Shepard, R. (1987). Towards a universal law of generalization for psychological science. *Science, 237,* 1317–1323.

Shohamy, D., Allen, M., & Gluck, M. (1999). Dissociating entorhinal and hippocampal function in latent inhibition of the classically conditioned eyeblink response. *Abstracts of the Society for Neuroscience Annual Meeting (Miami, FL), 25,* 40.14.

Siegel, S., & Allan, L. (1996). The widespread influence of the Rescorla-Wagner model. *Psychonomic Bulletin and Review, 3*(3), 314–321.

Singer, B., Zental, T., & Riley, D. (1969). Stimulus generalization and the easy-to-hard effect. *Journal of Comparative and Physiological Psychology, 69*(3), 528–535.

Smith, C., Coogan, J., & Hart, S. (1986). Effects of physostigmine on memory test performance in normal volunteers. *Psychopharmacology, 1986*(3), 364–366.

Solomon, P. (1977). Role of the hippocampus in blocking and conditioned inhibition of the rabbit's nictitating membrane. *Journal of Comparative and Physiological Psychology, 91*(2), 407–417.

Solomon, P. (1979). Temporal versus spatial information processing theories of hippocampal function. *Psychological Bulletin, 86,* 1272–1279.

Solomon, P., & Gottfried, K. (1981). The septohippocampal cholinergic system and classical conditioning of the rabbit's nictitating membrane response. *Journal of Comparative and Physiological Psychology, 95*(2), 322–330.

Solomon, P., Groccia-Ellison, M., Flynn, D., Mirak, J., Edwards, K., Dunehew, A., & Stanton, M. (1993). Disruption of human eyeblink conditioning after central cholinergic blockade with scopolamine. *Behavioral Neuroscience, 107*(2), 271–279.

Solomon, P., & Moore, J. (1975). Latent inhibition and stimulus generalization of the classically conditioned nictitating membrane response in rabbits (*Oryctolagus cuniculus*) following dorsal hippocampal ablation. *Journal of Comparative and Physiological Psychology, 89,* 1192–1203.

Solomon, P., Pomerleau, D., Bennett, L., James, J., & Morse, D. (1989). Acquisition of the classically conditioned eyeblink response in humans over the life span. *Psychology and Aging, 4*(1), 34–41.

Solomon, P., Solomon, S., Van der Schaaf, E., & Perry, H. (1983). Altered activity in the hippocampus is more detrimental to classical conditioning than removing the structure. *Science, 220,* 329–331.

Solomon, P., Van der Schaaf, E., Thompson, R., & Weisz, D. (1986). Hippocampus and trace conditioning of the rabbit's classically conditioned nictitating membrane response. *Behavioral Neuroscience, 100*(5), 729–744.

Solso, R. (1991). *Cognitive Psychology* (3rd ed.). Boston: Allyn & Bacon.

Spencer, D., & Lal, H. (1983). Effects of anticholinergic drugs on learning and memory. *Drug Development Research, 3,* 489–502.

Sperling, M., O'Connor, M., Saykin, A., & Plummer, C. (1996). Temporal lobectomy for refractory epilepsy. *Journal of the American Medical Association, 276,* 470–475.

Squire, L., & Knowlton, B. (1995). Memory, hippocampus and brain systems. In M. Gazzaniga (Ed.), *The Cognitive Neurosciences.* Cambridge, MA: MIT Press, pp. 825–837.

Squire, L., & Zola, S. (1998). Episodic memory, semantic memory and amnesia. *Hippocampus, 8,* 205–211.

Squire, L., & Zola-Morgan, S. (1988). Memory: Brain systems and behavior. *Trends in Neuroscience, 11*(4), 170–175.

Squire, L., Zola-Morgan, S., & Chen, K. (1988). Human amnesia and animal models of amnesia: Performance of amnesic patients on tests designed for the monkey. *Behavioral Neuroscience, 102*(2), 210–221.

Staubli, U., Fraser, D., Faraday, R., & Lynch, G. (1987). Olfaction and the "data" memory system in rats. *Behavioral Neuroscience, 101*(6), 757–765.

Staubli, U., Le, T., & Lynch, G. (1995). Variants of olfactory memory and their dependencies on the hippocampal formation. *Journal of Neuroscience, 15*(2), 1162–1171.

Steriade, M., McCormick, D., & Sejnowski, T. (1993). Thalamocortical oscillations in the sleeping and aroused brain. *Science, 262,* 679–685.

Stone, G. (1986). An analysis of the delta rule and the learning of statistical associations. In D. Rumelhart & J. McClelland, *Parallel Distributed Processing: Explorations in the Microstructure of Cognition* (vol. 1, pp. 444–459). Cambridge, MA: MIT Press.

Stork, D. (1989). Is backpropagation biologically plausible? In *Proceedings of the International Joint Conference on Neural Networks* (vol. II, pp. 241–246). Washington, D.C.

Sunderland, T., Tariot, P., Murphy, D., Weingartner, H., Mueller, E., & Cohen, R. (1985). Scopolamine changes in Alzheimer's disease. *Psychopharmacology, 87*(2), 247–249.

Sutherland, R., & Rudy, J. (1989). Configural association theory: The role of the hippocampal formation in learning, memory and amnesia. *Psychobiology, 17*(2), 129–144.

Sutton, G., Reggia, J., Armentrout, S., & D'Autrechy, C. L. (1994). Cortical map reorganization as a competitive process. *Neural Computation, 6,* 1–13.

Sutton, R., & Barto, A. (1981). Toward a modern theory of adaptive networks: Expectation and prediction. *Psychological Review, 88,* 135–170.

Suzuki, W. (1996). Neuroanatomy of the monkey entorhinal, perirhinal and parahippocampal cortices: Organization of cortical inputs and interconnections with amygdala and striatum. *Seminars in the Neurosciences, 8,* 3–12.

Swanson, L. (1979). The hippocampus: New anatomical insights. *Trends in Neurosciences, 2,* 9–12.

Szenthagothai, J. (1975). The "module-concept" in cerebral cortex architecture. *Brain Research, 95,* 475–496.

Tallal, P., Miller, S., Bedi, G., Byma, G., Wang, X., Nagarajan, S., Schreiner, C., Jenkins, W., & Merzenich, M. (1996). Language comprehension in language-learning impaired children improved with acoustically modified speech. *Science, 271,* 81–84.

Tallal, P., Miller, S., & Fitch, R. (1993). Neurobiological basis of speech: A case for the preeminence of temporal processing. *Annals of the New York Academy of Sciences, 682,* 27–47.

Tank, D., & Hopfield, J. (1987). Collective comptuation in neuronlike circuits. *Scientific American, 257*(6), 62–70.

Taube, J. (1991). Space, the final hippocampal frontier? *Hippocampus, 1*(3), 247–249.

Terrace, H. (1963). Discrimination learning with and without "errors." *Journal of Experimental Analysis of Behavior, 6*(1), 1–27.

Terrace, H. (1966). Discrimination learning and inhibition. *Science, 154,* 3757.

Terrace, H. (1974). On the nature of non-responding in discrimination learning with and without errors. *Journal of the Experimental Analysis of Behavior, 22,* 151–159.

Teyler, T., & DiScenna, P. (1986). The hippocampal memory indexing theory. *Behavioral Neuroscience, 100*(2), 147–154.

Thal, L., Fuld, P., Masur, D., & Sharpless, N. (1983). Oral physostigmine and lecithin improves memory in Alzheimer disease. *Annals of Neurology, 13,* 491–496.

Thompson, R. (1972). Sensory preconditioning. In R. Thompson & J. Voss (Eds.), *Topics in Learning and Performance* (pp. 105–129). New York: Academic Press.

Thompson, R. (1986). The neurobiology of learning and memory. *Science, 233,* 941–947.

Thompson, R., Berger, R., Berry, S., Hoehler, F., Kettner, R., & Weisz, D. (1980). Hippocampal substrate of classical conditioning. *Physiological Psychology, 8*(2), 262–279.

Tolman, E. (1932). *Purposive Behavior in Animals and Men.* New York: Appleton-Century-Croft. Reprint, University of California Press, 1949.

Tolman, E., & Honzik, C. (1930). Introduction and removal of reward, and maze performance in rats. *University of California Publications in Psychology, 4,* 257–275.

Touretzky, D., & Redish, A. (1996). Theory of rodent navigation based on interacting representations of space. *Hippocampus, 6*(3), 247–270.

Trabasso, T., & Bower, G. (1964). Concept identification. In R. Atkinson (Ed.), *Studies in Mathematical Psychology.* Stanford, CA: Stanford University Press.

Trabasso, T., & Bower, G. (1968). *Attention in Learning.* New York: Wiley.

Treves, A., & Rolls, E. (1992). Computational constraints suggest the need for two distinct input systems to the hippocampal CA3 network. *Hippocampus, 2*(2), 189–200.

Treves, A., & Rolls, E. (1994). Computational analysis of the role of the hippocampus in memory. *Hippocampus, 4*(3), 374–391.

Treves, A., Skaggs, W., & Barnes, C. (1996). How much of the hippocampus can be explained by functional constraints? *Hippocampus, 6*(6), 666–674.

Vanderwolf, C., Leung, L.-W., & Stewart, D. (1985). Two afferent pathways mediating hippocampal rhythmical slow-wave activity. In G. Buzsáki & C. Vanderwolf (Eds.), *Electrical Activity of the Archicortex* (pp. 47–66). Budapest: Akademiai Kiado.

van Hoesen, G., & Pandya, D. (1975). Some connections of the entorhinal (area 28) and perirhinal (area 35) cortices of the rhesus monkey. I: Temporal lobe afferents. *Brain Research, 95,* 1–24.

Vargha-Khadem, F., Gadian, D., Watkins, K., Connelly, A., Van Paesschen, W., & Mishkin, M. (1997). Differential effects of early hippocampal pathology on episodic and semantic memory. *Science, 277,* 376–332.

von der Malsburg, C. (1973). Self-organizating of orientation sensitive cells in the striate cortex. *Kybernetik, 14,* 85–100.

Vriesen, E., & Moscovitch, M. (1990). Memory for temporal order and conditional associative-learning in patients with Parkinson's Disease. *Neuropsychologia, 28*(12), 1283–1293.

Wagner, A., & Rescorla, R. (1972). Inhibition in Pavlovian conditioning: Application of a theory. In R. Boake & M. Halliday (Eds.), *Inhibition and Learning* (pp. 301–336). London: Academic Press.

Wagstaff, A., & McTavish, D. (1994). Tacrine: A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in Alzheimer's disease. *Drugs and Aging, 4*(6), 510–540.

Walkenbach, J., & Haddad, N. (1980). The Rescorla-Wagner theory of conditioning: A review of the literature. *The Psychological Record, 30,* 497–509.

Wall, J., & Cusick, C. (1984). Cutaneous responsiveness in primary somatosensory (S-I) hindpaw cortex before and after partial hindpaw deafferentation in adult rats. *Journal of Neuroscience, 4,* 1499–1515.

Wallenstein, G., Eichenbaum, H., & Hasselmo, M. (1998). The hippocampus as an associator of discontiguous events. *Trends in Neurosciences, 21,* 317–323.

Wallenstein, G., & Hasselmo, M. (1997). GABAergic modulation of hippocampal population activity: Sequence learning, place field development, and the phase precession effect. *Journal of Neurophysiology, 78*(1), 393–408.

Wang, X., Merzenich, M., Sameshima, K., & Jenkins, W. (1995). Remodelling of hand representation in adult cortex determined by timing of tactile stimulation. *Nature, 378,* 71–75.

Warren, S., Hier, D., & Pavel, D. (1998). Visual form of Alzheimer's disease and its response to anticholinersterase therapy. *Journal of Neuroimaging, 8*(4), 249–252.

Weinberger, N. (1993). Learning-induced changes of auditory receptive fields. *Current Opinion in Neurobiology, 3,* 570–577.

Weinberger, N. (1997). Learning-induced receptive field plasticity in the primary auditory cortex. *Seminars in Neuroscience, 9,* 59–67.

Weinberger, N., Javid, R., & Lepan, B. (1993). Long-term retention of learning-induced receptive field plasticity in auditory cortex. *Proceedings of the National Academy of Sciences USA, 90,* 2394–2398.

Weiner, I. (1990). Neural substrates of latent inhibition: The switching model. *Psychological Bulletin, 108*(3), 442–461.

Weiner, I., & Feldon, J. (1997). The switching model of latent inhibition: An update of neural substrates. *Behavioural Brain Research, 88,* 11–25.

Weiskrantz, L., & Warrington, E. (1979). Conditioning in amnesic patients. *Neuropsychologia, 17,* 187–194.

Weiss, K., Friedman, R., & McGregor, S. (1974). Effects of septal lesions on latent inhibition and habituation of the orienting response in rats. *Acta Neurobiologica Experimentalis, 34,* 491–504.

Werbos, P. (1974) *Beyond Regression: New Tools for Prediction and Analysis in the Behavioral Sciences.* Ph.D. Thesis, Harvard University.

West, M. (1990). Stereological studies of the hippocampus: A comparison of the hippocampal subdivisions of diverse species including hedgehogs, laboratory rodents, wild mice and men. *Progress in Brain Research, 83,* 13–36.

West, M., Christian, E., Robinson, J., & Deadwyler, S. (1982). Evoked potentials in the dentate gyrus reflect the retention of past sensory events. *Neuroscience Letters, 28,* 325–329.

Westbrook, R. F., Bond, N., & Feyer, A.-M. (1981). Short- and long-term decrements in toxicosis-induced odor-aversion learning: The role of duration of exposure to an odor. *Journal of Experimental Psychology: Animal Learning and Behavior, 7*(4), 362–381.

Wetherell, A. (1992). Effects of physostigmine on stimulus encoding in a memory-scanning task. *Psychopharmacology, 109,* 198–202.

Whishaw, I., & Tomie, J.-A. (1991). Acquisition and retention by hippocampal rats of simple, conditional and configural tasks using tactile and olfactory cues: Implications for hippocampal function. *Behavioral Neuroscience, 105*(6), 787–797.

Whitehouse, P., Price, D., Struble, R., Clark, A., Coyle, J., & DeLong, M. (1982). Alzheimer's disease and senile dementia: Loss of neurons in the basal forebrain. *Science, 215,* 1237–1239.

Wible, C., Eichenbaum, H., & Otto, T. (1990). A task designed to demonstrate a declarative memory representation of odor cues in rats. *Society for Neuroscience Abstracts, 16*(6), 605.

Wickelgren, W. (1979). Chunking and consolidation: A theoretical synthesis of semantic networks, configuring in conditioning, S-R versus cognitive learning, normal forgetting, the amnesic syndrome, and the hippocampal arousal system. *Psychological Review, 86*(1), 44–60.

Widrow, B., Gupta, N., & Maitra, S. (1973). Punish/reward: Learning with a critic in adaptive systems. *IEEE Transactions on Systems, Man and Cybernetics, SMC-3*(5), 455–465.

Widrow, B., & Hoff, M. (1960). Adaptive switching circuits. *Institute of Radio Engineers, Western Electronic Show and Convention Record, 4,* 96–104.

Widrow, B., & Winter, R. (1988). Neural nets for adaptive filtering and adaptive pattern recognition. *IEEE Computer,* March, 1988, 25–39.

Widrow, B., Winter, R., & Baxter, R. (1988). Layered neural nets for pattern recognition. *IEEE Transactions on Acoustics, Speech and Signal Processing, 36*(7), 1109–1118.

Wiedemann, G., Georgilas, A., & Kehoe, E. J. (1999). Temporal specificity in patterning of the rabbit nictitating membrane response. *Animal Learning and Behavior, 27*(1), 99–107.

Wiener, S., Paul, C., & Eichenbaum, H. (1988). Spatial and behavioral correlates of hippocampal neuronal activity. *Journal of Neuroscience, 9*(8), 2737–2763.

Wiesel, T. (1982). Postnatal development of the visual cortex and the influence of environment. *Nature, 299,* 583–591.

Willshaw, D., & Buckingham, J. (1990). An assessment of Marr's theory of the hippocampus as a temporary memory store. *Philosophical Transactions of the Royal Society of London, B329,* 205–215.

Wilson, A., Brooks, D., & Bouton, M. (1995). The role of the rat hippocampal system in several effects of context in extinction. *Behavioral Neuroscience, 109*(5), 828–836.

Wilson, B., Baddely, A., Evans, J., & Shiel, A. (1994). Errorless learning in the rehabilitation of memory impaired people. *Neuropsychological Rehabilitation, 4*(3), 307–326.

Wilson, F., & Rolls, E. (1990). Learning and memory is reflected in the responses of reinforcement-related neurons in the primate basal forebrain. *Journal of Neuroscience, 10,* 1254–1267.

Wilson, M., & McNaughton, B. (1993). Dynamics of the hippocampal ensemble code for space. *Science, 261,* 1055–1058.

Winocur, G. (1990). Anterograde and retrograde amnesia in rats with dorsal hippocampal or dorsomedial thalamic lesions. *Behavioral Brain Research, 38,* 145–154.

Winocur, G., & Gilbert, M. (1984). The hippocampus, context and information processing. *Behavioral and Neural Biology, 40,* 27–43.

Winocur, G., & Olds, J. (1978). Effects of context manipulation on memory and reversal learning in rats with hippocampal lesions. *Journal of Comparative and Physiological Psychology, 92*(2), 312–321.

Winocur, G., Rawlins, J., & Gray, J. (1987). The hippocampus and conditioning to contextual cues. *Behavioral Neuroscience, 101*(5), 617–625.

Woodhams, P., Celio, M., Ulfig, N., & Witter, M. (1993). Morphological and functional correlates of borders in the entorhinal cortex and hippocampus. *Hippocampus, 3* (Special Issue on Entorhinal–Hippocampal Interaction, eds. R. Nitsch & T. Ohm), 303–311.

Woodruff-Pak, D. (1993). Eyeblink classical conditioning in HM: Delay and trace paradigms. *Behavioral Neuroscience, 107*(6), 911–925.

Woodruff-Pak, D., Li, Y., Kazmi, A., & Kem, W. (1994a). Nicotinic cholinergic system involvement in eyeblink classical conditioning in rabbits. *Behavioral Neuroscience, 108*(3), 486–493.

Woodruff-Pak, D., Li, Y., & Kem, W. (1994b). A nicotinic agonist (GTS-21), eyeblink classical conditioning, and nicotinic receptor binding in rabbit brain. *Brain Research, 645*(1–2), 309–317.

Yee, B., Feldon, J., & Rawlins, J. (1995). Latent inhibition in rats is abolished by NMDA-induced neuronal loss in the retrohippocampal region, but this lesion effect can be prevented by systemic haloperidol treatment. *Behavioral Neuroscience, 109*(2), 227–240.

Yeo, C., Hardiman, M., & Glickstein, M. (1985). Classical conditioning of the nictitating membrane response of the rabbit. I: Lesions of the cerebellar nuclei. *Experimental Brain Research, 60*(1), 87–98.

Young, B., Otto, T., Fox, G., & Eichenbaum, H. (1997). Memory representation within the parahippocampal region. *Journal of Neuroscience, 17*(13), 5183–5195.

Zackheim, J., Myers, C., & Gluck, M. (1998). A temporally sensitive recurrent network model of occasion setting. In N. Schmajuk & P. Holland (Eds.), *Occasion Setting: Associative Learning and Cognition in Animals* (pp. 319–342). Washington, DC: American Psychological Association.

Zalstein-Orda, N., & Lubow, R. (1994). Context control of negative transfer induced by preexposure to irrelevant stimuli: Latent inhibition in humans. *Learning and Motivation, 26,* 11–28.

Zigmond, M., Bloom, F., Landis, S., Roberts, J., & Squire, L. (1999a). *Fundamental Neuroscience.* New York: Academic Press.

Zigmond, M., Bloom, F., Landis, S., Roberts, J., & Squire, L. (1999b). *Fundamental Neuroscience Images, Version 1.0.* New York: Academic Press.

Zola-Morgan, S., & Squire, L. (1985). Medial temporal lesions in monkeys impair memory on a variety of tasks sensitive to human amnesia. *Behavioral Neuroscience, 99*(1), 22–34.

Zola-Morgan, S., & Squire, L. (1986). Memory impairment in monkeys following lesions limited to the hippocampus. *Behavioral Neuroscience, 100*(2), 155–160.

Zola-Morgan, S., & Squire, L. (1993). Neuroanatomy of memory. *Annual Review of Neuroscience, 16,* 547–563.

Zola-Morgan, S., Squire, L., & Amaral, D. (1986). Human amnesia and the medial temporal region: Enduring memory impairments following a bilateral lesion limited to field CA1 of the hippocampus. *Journal of Neuroscience, 6*(10), 2950–2967.

Zola-Morgan, S., Squire, L., & Amaral, D. (1989a). Lesions of the amygdala that spare adjacent cortical regions do not impair memory or exacerbate the impairment following lesions of the hippocampal formation. *Journal of Neuroscience, 9*(6), 1922–1936.

Zola-Morgan, S., Squire, L., & Amaral, D. (1989b). Lesions of the hippocampal formation but not lesions of the fornix or the mammillary nuclei produce long-lasting memory impairment in monkeys. *Journal of Neuroscience, 9*(3), 898–913.

Zola-Morgan, S., Squire, L., & Ramus, S. (1994). Severity of memory impairment in monkeys as a function of locus and extent of damage within the medial temporal lobe memory system. *Hippocampus, 4*(4), 483–495.