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Curriculum Vitae

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Date of Birth: February 4, 1958

Place of Birth: Oakland, CA

EDUCATION

1976-78 University of California, San Diego, La Jolla, CA

1978-80 B.A., Psychology; University of California, Berkeley; Berkeley, CA

1981-85 M.A. (1983), Experimental Psychology
Ph.D. (1985), Experimental Psychology; SUNY-
Binghamton, Binghamton, NY

EXPERIENCE

1985-1987 Postdoctoral Research Assistant in Animal Learning, Memory, and
Conditioning, Department of Psychology, York, U.K.

1987-1988 Postdoctoral Research Assistant in Psychoneuroimmunology, Division of
Behavioral and Psychosocial Medicine, Department of Psychiatry,
University of Rochester Medical Center, Rochester, NY.

1988-1994 Assistant Professor in the Department of Psychological Sciences,
University of Missouri

1994-2001 Associate Professor in the Department of Psychological Sciences,
University of Missouri

2001-present Professor in the Department of Psychological Sciences,
University of Missouri

RESEARCH INTERESTS

My primary specialization is information processing in animals. Much of my work has been aimed at differentiating the processes of acquisition, retention, and retrieval of information as causes of test performance deficits using taste stimuli. I am also involved in the neural mechanisms underlying learning and memory, specifically the role of receptors for glutamate which is the most prevalent excitatory neurotransmitter in the central nervous system. I am also involved in research examining covariation judgments in humans and work on human intrinsic and extrinsic motivation.

PUBLICATIONS

*Predoctoral status at time research was conducted.

**Undergraduate status at time research was conducted.

Kaspro^{*}, W. J., Schachtman^{*}, T. R., Balaz^{*}, M. A., & Miller, R. R. (1983). Attenuation of experimental amnesia through prior administration of a dissimilar amnestic agent. *Physiology & Behavior*, *30*, 193-196.

Schachtman^{*}, T. R., Gee^{**}, J-L, Kaspro^{*}, W. J., & Miller, R. R. (1983). Reminder-induced recovery from blocking as a function of the number of compound trials. *Learning and Motivation*, *14*, 154-164.

Kaspro^{*}, W. J., Catterson^{**}, D., Schachtman^{*}, T. R., & Miller, R. R. (1984). Attenuation of latent inhibition by postacquisition reminder. *Quarterly Journal of Experimental Psychology*, *36B*, 53-63.

Kaspro^{*}, W. J., Schachtman^{*}, T. R., Cacheiro^{**}, H., & Miller, R. R. (1984). Extinction does not depend on the degradation of event memories. *Bulletin of the Psychonomic Society*, *22*, 95-98.

Schachtman^{*}, T. R., Kaspro^{*}, W. J., & Miller, R. R. (1984). Reminder treatments do not alleviate cue-to-consequence deficits. *Animal Learning & Behavior*, *12*, 97-105.

Kaspro^{*}, W. J., Schachtman^{*}, T. R., & Miller, R. R. (1985). Associability of a previously conditioned stimulus as a function of qualitative changes in the US. *Quarterly Journal of Experimental Psychology*, *37B*, 33-48.

Kaspro^{*}, W. J., Schachtman^{*}, T. R., & Miller, R. R. (1985). A retrogradient for disruption of a conditioned aversion to cold drinking water by ECS administered during the CS-US interval. *Physiology & Behavior*, *34*, 879-882.

Matzel^{*}, L. D., Schachtman^{*}, T. R., & Miller, R. R. (1985). Recovery from overshadowing by extinction of the overshadowing stimulus. *Learning and Motivation*, *16*, 398-412.

Miller, R. R., Kaspro*, W. J., & Schachtman*, T. R. (1985). ECS-induced retrograde amnesia is not due to increased sensitivity to sources of ordinary forgetting. *Physiological Psychology*, *12*, 319-330.

Miller, R. R., & Schachtman*, T. R. (1985). The several roles of context at the time of retrieval. In P. D. Balsam & A. Tomie (Eds.), *Context and learning*. Hillsdale, NJ: Erlbaum.

Miller, R. R., & Schachtman*, T. R. (1985). Conditioning context as an associative baseline: Implications for response generation and the nature of conditioned inhibition. In R. R. Miller & N. E. Spear (Eds.), *Information processing in animals: Conditioned inhibition*. Hillsdale, NJ: Erlbaum.

Schachtman*, T. R., Brown*, A. M., & Miller, R. R. (1985). Reinstatement-induced recovery of a taste-LiCl association following extinction. *Animal Learning & Behavior*, *13*, 223-227.

Schachtman*, T. R., Kaspro*, W. J., Chee**, M. A., & Miller, R. R. (1985). Blocking but not conditioned inhibition results when added stimulus is reinforced in compound with multiple pretrained stimuli. *American Journal of Psychology*, *98*, 283-295.

Miller, R. R., Kaspro*, W. J., & Schachtman*, T. R. (1986). Retrieval variability: Psychobiological sources and consequences. *American Journal of Psychology*, *99*, 145-218.

Hall, G., Channell*, S., & Schachtman, T. R. (1987). The instrumental overshadowing effect in pigeons: The role of response bursts. *Quarterly Journal of Experimental Psychology*, *39B*, 173-188.

Hall, G., & Schachtman, T. R. (1987). Differential effects of a retention interval on latent inhibition and habituation of an orienting response. *Animal Learning & Behavior*, *15*, 76-82.

Honey*, R. C., Schachtman, T. R., & Hall, G. (1987). Partial reinforcement in serial autoshaping: The role of attentional and associative factors. *Learning and Motivation*, *18*, 288-300.

Kaspro*, W. J., Schachtman*, T. R., & Miller, R. R. (1987). The comparator hypothesis of conditioned response generation: Manifest conditioned excitation and inhibition as a function of differences in the excitatory associative strengths of CS and conditioning context at the time of testing. *Journal of Experimental Psychology: Animal Behavior Processes*, *13*, 395-406.

Reilly, S., & Schachtman, T. R. (1987). The effects of ITI fillers in autoshaping.

Learning and Motivation, 18, 202-219.

Schachtman*, T. R., Brown*, A. M., Gordon*, E. L., Catterson**, D. A., & Miller, R. R. (1987). Mechanisms underlying retarded emergence of conditioned responding following inhibitory training: Evidence for the comparator hypothesis. *Journal of Experimental Psychology: Animal Behavior Processes*, 13, 310-322.

Schachtman, T. R., Channell*, S., & Hall, G. (1987). Effects of CS preexposure on inhibition of delay. *Animal Learning & Behavior*, 15, 301-311.

Schachtman, T. R., Reed*, P., & Hall, G. (1987). Overshadowing and potentiation of instrumental responding by pigeons on a VI schedule of reinforcement. *Journal of Experimental Psychology: Animal Behavior Processes*, 13, 271-279.

Schachtman, T. R., & Reilly, S. (1987). The role of local context in autoshaping. *Learning and Motivation*, 18, 343-355.

Matzel*, L. D., Schachtman, T. R., & Miller, R. R. (1988). Learned irrelevance exceeds the sum of CS and US preexposure effects. *Journal of Experimental Psychology: Animal Behavior Processes*, 14, 311-319.

Miller, R. R., Schachtman, T. R., & Matzel, L. D. (1988). Testing response generation rules. *Journal of Experimental Psychology: Animal Behavior Processes*, 14, 425-429.

Reed*, P., Schachtman, T. R., & Hall, G. (1988). Overshadowing and potentiation of instrumental responding in rats as a function of the schedule of reinforcement. *Learning and Motivation*, 19, 13-30.

Reed*, P., Schachtman, T. R., & Hall, G. (1988). Potentiation of responding on a VR schedule by a stimulus correlated with reinforcement: Effects of diffuse and localized signals. *Animal Learning & Behavior*, 16, 75-82.

Reilly, S., & Schachtman, T. R. (1988). Attenuation of autoshaped responding by US reactivation treatments following extinction. *Bulletin of the Psychonomic Society*, 26, 159-161.

Schachtman*, T. R., Matzel*, L. D., & Miller, R. R. (1988). Retardation of conditioned excitation following inhibitory blocking. *Animal Learning & Behavior*, 16, 100-104.

Grota, L. J., Schachtman, T. R., Moynihan, J. A., Cohen, N., & Ader, R. (1989). Voluntary consumption of cyclophosphamide by MRL mice. *Brain, Behavior, & Immunity*, 3, 263-273.

Reed*, P., & Schachtman, T. R. (1989). Instrumental responding by rats on free-

operant schedules with components that schedule response-dependent reinforcer omission: Implications for optimization theories. *Animal Learning & Behavior*, 17, 328-338.

Moynihan, J. A., Ader, R., Grotta, L. J., Schachtman, T. R., & Cohen, N. (1990). Effects of stress on the development of immunological memory following low dose antigen priming in mice. *Brain, Behavior, and Immunity*, 4, 1-12

Schachtman, T. R., & Reed*, P. (1990). The roles of response-reinforcer correlation in signalled reinforcement effects. *Animal Learning & Behavior*, 18, 51-58.

Schachtman, T. R., & Hall, G. (1990). Potentiation and overshadowing of instrumental responding by pigeons: The role of behavioral contrast. *Learning and Motivation*, 21, 85-95.

Reed*, P., & Schachtman, T. R. (1991). Instrumental performance on negative schedules. *Quarterly Journal of Experimental Psychology*, 43B, 177-197.

Reed*, P., Schachtman, T. R., & Hall, G. (1991). The effect of signalled reinforcement on the formation of behavioral units. *Journal of Experimental Psychology: Animal Behavior Processes*, 17, 475-485.

Bourne*, M. J., Calton*, J. L., Gustavson*, K. K., & Schachtman, T. R. (1992). Effects of acute swim stress on LiCl-induced conditioned taste aversion in rats. *Physiology & Behavior*, 51, 1227-1234.

Bradfield*, J., Schachtman, T., Steffen, E., & McLaughlin, R. (1992). Behavioral and physiologic effects of inapparent wound infection in rats. *Laboratory Animal Science*, 42, 572-578.

Gustavson*, K. K., Hart*, J. A., Calton*, J. L., & Schachtman, T. R. (1992). Effects of extinction and US reinstatement of a blocking CS-US association. *Bulletin of the Psychonomic Society*, 30, 247-250.

Reed, P., Schachtman, T. R., & Rawlins, J. N. P. (1992). The effect of signalled reinforcement on a synthetic VI schedule. *Learning and Motivation*, 23, 170-182.

Schachtman, T. R., Gustavson*, K. K., Chelonis**, J. J., & Bourne*, M. J. (1992). Effects of US reinstatement on the potential of an extinguished CS to attenuate manifest learning about another CS. *Learning and Motivation*, 23, 250-268.

Schachtman, T. R., Kaspro, W. J., Meyer*, R. C., Bourne*, M. J., & Hart*, J. A. (1992). Extinction of the overshadowing CS after overshadowing in conditioned taste aversion. *Animal Learning & Behavior*, 20, 207-219.

Schachtman, T. R., & Reed, P. (1992). Reinforcement signals facilitate learning

about early constituents of a response sequence. *Behavioural Processes*, 26, 1-11.

Kaspro, W. J., & Schachtman, T. R. (1993). Differential effect of the interval between exposures on attenuation of neophobia and latent inhibition. *Psychological Record*, 43, 25-38.

Schachtman, T. R., & Calton*, J. L. (1993). Retrieval of Pavlovian associations. In J. Guzman-Navarro et al. (Eds.), *Learning: Basic and applied issues*. McGraw-Hill.

Hart*, J. A., Bourne*, M. J., & Schachtman, T. R. (1995). Slow reacquisition in conditioned taste aversion. *Animal Learning & Behavior*, 23, 297-303.

Calton*, J.L., Mitchell**, K.G., & Schachtman, T.R. (1996). Retardation and summation tests of an extinguished conditioned excitator. *Learning and Motivation*, 27, 335-361.

Mitchell**, K.G., Calton, J.L.*, Threlkeld*, R.C., & Schachtman, T.R. (1996). Extinction and reacquisition of foraging behavior. *Behavioural Processes*, 36, 239-252.

Reilly, S., Schachtman, T.R., & Reed, P. (1996). Signalled delay of reinforcement: Effects of post-conditioning manipulation of context associative strength on instrumental performance. *Learning and Motivation*, 27, 451-463.

Schachtman, T.R., & Reed, P. (1998). Optimization: Some factors that facilitate and hinder optimal performance in animals and humans. In W. O'Donahue (Ed.), *Learning and behavior therapy* (pp. 301-333). Allyn-Bacon: New York, NY.

Chelonis**, J. J., Calton*, J. L., Hart*, J.A., & Schachtman, T. R. (1999). The renewal effect in conditioned taste aversion. *Learning and Motivation*, 30, 1-14.

Bee*, M.A., Schachtman, T.R. (2000). Is Habituation a Mechanism for Neighbor Recognition in Green Frogs? *Behavioral Ecology and Sociobiology*, 48, 165-168.

Schachtman, T.R., Threlkeld*, R., & Meyer**, K. (2000). Retention of conditioned inhibition produced by extinction. *Learning and Motivation*, 31, 283-300.

Schachtman, T.R., Simonyi, A., Bills*, C., Ghinescu*, R., Murch**, K., Serfozo, P. (2003). MPEP, a selective metabotropic glutamate receptor 5 antagonist, attenuates conditioned taste aversion. *Behavioural Brain Research*, 141, 177-182.

Bills*, C., Smith*, S., Myers**, N., & Schachtman, T.R. (2003). Session duration and context extinction effects in conditioned taste aversion. *Learning & Behavior*, 31, 369-377.

Schachtman, T.R. (2004). Pavlovian conditioning: Basic associative processes. *International Journal of Comparative Psychology*, 17, pp. XIV-XV (short introductory

article).

Bills*, C., Schachtman, T.R., Serfozo, P., Spooren, P.J.M., Gasparini, F., & Simonyi, A. (2005). Effects of metabotropic glutamate receptor 5 on latent inhibition in conditioned taste aversion. *Behavioural Brain Research*, *157*, 71-78.

Reilly, S., & Schachtman, T.R. (2005). Pavlovian conditioning requires ruling out nonassociative factors to claim conditioning occurred. *International Journal of Comparative Psychology*, *18*, 34-37.

Wendt*, K.D., Lei, B., Schachtman, T.R., Tullis, G.E., Ibe*, M.E., & Katz, M. L. (2005). Behavioral assessment in mouse models of neuronal ceroid lipofuscinosis using a light-cued t-maze. *Behavioural Brain Research*, *161*, 175-182.

Dopheide*, M., Bills*, C., Smith*, S., Kichnet, R., & Schachtman, T.R. (2005). Unexpected post-CS events during extinction and the slow reacquisition effect. *International Journal of Comparative Psychology*, *18*, 249-256.

Simonyi, A., Schachtman, T.R., & Christofferson, G.R.J. (2005). Role of metabotropic glutamate receptor 5 (mGluR5) in learning and memory processes. *Drug News Perspectives*, *18*, 353-361.

Bills*, C.H., Dopheide*, M., Pineno*, O., & Schachtman, T.R. (2006). Effects of an extinguished CS on competition with another CS. *Behavioural Processes*, *72*, 14-22.

Pineno, O., Zilski*, J.M., & Schachtman, T.R. (2007). Second-order conditioning in a compound extinction treatment. *Learning and Motivation*, *38*, 172-192.

Sheldon, K.M., & Schachtman, T.R. (2007). Obligations, excuse-making, and motivational internalization: Testing and extending the triangle model of excuse-making. *Journal of Personality*, *75*, 257-282.

Dopheide*, M.M., Morgan, R.E., Rodvelt*, K.R., Schachtman, T.R., & Miller, D.K. (2007). Modafinil evokes striatal [3H]dopamine release and alters the subjective properties of stimulants. *European Journal of Pharmacology*, *568*, 112-123.

Anger, D., & Schachtman, T.R. (2007). A sensitive, reliable, inexpensive touch detector. *Journal of the Experimental Analysis of Behavior*, *87*, 151-153.

Simonyi, A., Serfozo, P., Shelat*, P.B., Dopheide*, M.M., Coulibaly**, A.P., & Schachtman, T.R. (2007). Differential roles of hippocampal metabotropic glutamate receptors 1 and 5 in inhibitory avoidance learning. *Neurobiology of Learning and Memory*, *88*, 305-311.

Christofferson, G.R.J., Simonyi, A., Schachtman, T.R., Clausen*, B., Clement*, D., Bjerre*, V., Mark*, L.T., Reinholdt*, M., & Schmith-Rasmussen*, K. (2008).

MGluR5 antagonism impairs exploration and memory of spatial and non-spatial stimuli in rats. *Behavioural Brain Research*. 191, 235-245.

Smith*, S., Fieser**, S., Jones**, J., & Schachtman, T.R. (2008). Effects of swim stress on latent inhibition using a conditioned taste aversion procedure. *Physiology & Behavior*, 95, 539-541.

Rodvelt*, K.R., Kracke, G.R., Schachtman, T.R., & Miller, D.K. (2008). Ketamine induces hypersensitivity to nicotine in rat striatal slices. *Pharmacology, Biochemistry & Behavior*. 91, 71-76.

Rodvelt*, K.R., Schachtman, T.R., Kracke, G.R., & Miller, D.K. (2008). Nicotine-evoked dopamine release from prefrontal cortex is augmented in an animal model of schizophrenia. *Neuroscience Letters*, 440, 319-322.

Reilly, S., & Schachtman, T.R. (2009). *Conditioned taste aversions: Behavioral and neural mechanisms*. New York: Oxford University Press.

Schachtman, T.R., Ramsey*, A. & Pineño, O. (2009). Manipulations of nontarget stimuli on conditioned responding to a target CS in CTA. In S. Reilly & T.R. Schachtman (Eds.), *Conditioned taste aversions: Behavioral and neural mechanisms*. New York: Oxford University Press.

Reilly, S., & Schachtman, T.R. (2009). Introduction. In S. Reilly & T.R. Schachtman (Eds.), *Conditioned taste aversions: Behavioral and neural mechanisms*. New York: Oxford University Press.

Cozzolino, P.J., Sheldon, K.M., Schachtman, T.R., & Meyers, L.S. (2009). Limited time perspective, values, and greed: Imagining a limited future reduces avarice in extrinsic people. *Journal of Research in Personality*, 43, 399-408.

Simonyi A., Serfozo P., Ramsey*, A.K., Parker*, K., & Schachtman, T.R. (2009). The role of metabotropic glutamate receptor 5 in conditioned taste aversion learning. *Neurobiology of Learning and Memory*, 92, 460-463.

Ghinescu*, R., Schachtman, T.R., Stadler, M., Gratton, G., & Fabiani, M. (2010). Strategic behavior without awareness? Effects of implicit learning in Eriksen flanker paradigm. *Memory & Cognition*. 38, 197-205.

Simonyi, A., Schachtman, T.R., & Christofferson, G.R.J. (2010). Metabotropic glutamate receptor 5 antagonism in learning and memory. *European Journal of Pharmacology*, 639, 17-25.

Fowler*, S., Ramsey*, A., Walker*, J.M., Serfozo, P., Olive, F., Simonyi, A., & Schachtman, T.R. (2011). Effects of CDPPB, a mGluR5 positive allosteric modulator, on conditioned taste aversion. *Neurobiology of Learning and Memory*, 95, 73-79.

Walker*, J.M., Fowler*, S.W., Miller, D.M., Sun, G.Y., Sun, A.Y., Wood, W.G., Simonyi, A., & Schachtman, T.R. (2011). Spatial learning and locomotion in TgCRND mice, a murine model of Alzheimer's disease. *Behavioural Brain Research*, 222, 169-175.

Schachtman, T.R., & Reilly, S. (Eds). (2011). *Conditioning and Animal Learning: Human and Non-Human Applications*. New York: Oxford University Press.

Schachtman, T.R., Walker*, J., & Fowler*, S. (2011). Conditioning and advertising. In T.R. Schachtman & S. Reilly (Eds.), *Conditioning and Animal Learning: Human and Non-Human Applications* (481-506). New York: Oxford University Press.

Schachtman, T.R., & Reilly, S. (2011). Things you always wanted to know about conditioning but were afraid to ask. In T.R. Schachtman & S. Reilly (Eds.), *Conditioning and Animal Learning: Human and Non-Human Applications* (pp. 3-23). Oxford University Press.

Clausen*, B., Schachtman, T., Mark*, L.T., Reinholdt*, M., & Christoffersen, G.R.J. (2011). Impairments of exploration and memory after systemic or prelimbic D1-receptor antagonism in rats. *Behavioural Brain Research*, 223, 241-254.

Jasarevic*, E., Sieli*, P.T., Twellman, E.E., Welsh, T.H., Jr., Schachtman, T.R., Roberts, R.M., Geary, D.C., & Rosenfeld, C.S. (2011). Disruption of adult expression of sexually selected traits by early exposure to Bisphenol A. *Proceedings of the National Academy of Sciences*. 108, 11715-11720.

Sheldon, K.M., Gunz*, A., & Schachtman, T.R. (2012). What does it mean to be in touch with oneself? Testing a 'social character' model of self-congruence. *Self and Identity*, 11, 51-70.

Walker*, J.M., Ramsey*, A.K., Fowler*, S.W., & Schachtman, T.R. (2012). Effects of swim stress on the attenuation of neophobia and slow reacquisition. *Psychological Record*, 62, 295-306.

Fowler*, S.W., Walker*, J.M., Klakotskaia*, D., Will, M., Simonyi, A., & Schachtman, T.R. (2013). Effects of a mGluR5 positive allosteric modulator, CDPBB, on spatial learning in rats. *Neurobiology of Learning and Memory*, 99, 25-31.

Viemose*, I., Moller, P., Laugesen*, J.L., Schachtman, T.R., Manoharan*, T., & Christoffersen, G.R.J. (2013). Appetitive long-term taste conditioning modulates human visual evoked potentials. *Behavioural Brain Research*, 253, 1-8.

Klakotskaia*, D., Ramsey*, A., Fowler*, S., Serfozo, P., Schachtman, T.R., & Simonyi, A. (2013). Effects of group II and group III metabotropic glutamate receptors on conditioned taste aversion. *Behavioural Brain Research*, 253, 9-16.

Hecht*, P., Will, M., Schachtman, T., Welby*, L., & Beversdorf, D. (2014). Effect of beta-adrenergic antagonist on a novel cognitive flexibility task in rodents. *Behavioural Brain Research*, 260, 148-154.

Walker*, J.M., Klakotskaia*, D., Ajit, D., Weisman, G.A., Wood, G., Sun G., Y., Serfozo, P., Simonyi, A., & Schachtman, T.R. (2015). Beneficial effects of dietary EGCG and voluntary exercise on behavior in an Alzheimer's disease mouse model. *Journal of Alzheimer's Disease*, 44(2), 561-572.

Li*, Y., Liu, R., & Schachtman, T.R. (2016). Cultural differences in revaluative attributions. *Journal of Cross-Cultural Psychology*, 47, 149-166.

Christoffersen, G.R.J., & Schachtman, T.R. (2016). Electrophysiological CNS-processes related to associative learning in humans. *Behavioural Brain Research*, 296, 211-232.

Olver, T.D., Klakotskaia*, D., Ferguson, B.S., Hiemstra**, J.A., Schachtman, T.R., Laughlin, M. H., & Emter, C.A. (2016). Carotid artery vascular mechanics serve as biomarkers of cognitive dysfunction in aortic-banded miniature swine that can be treated with an exercise intervention. *Journal of the American Heart Association*. 5, 1-11.

Agca, C., Klakotskaia*, D., Schachtman, T.R., Chan, A.W., Lah, J.J., & Agca, Y. (2016). Presenilin 1 transgene addition to amyloid precursor protein overexpressing transgenic rats increases amyloid beta 42 levels and results in loss of memory retention. *Biomed Central: Neuroscience*, DOI: 10.1186/s12868-016-0281-8

Schachtman, T.R., Klakotskaia*, D., Walker*, J.M., & Hill, A. (2016). Psychological Factors in Food Aversions, Nausea, and Vomiting During Pregnancy. *Journal of Food and Nutrition Research*, 4, 677-689.

Ghinescu*, R., Schachtman, T.R., Ramsey*, A., Gratton, G., & Fabiani, M. (2016). Cue competition during implicit learning in an Eriksen flanker paradigm. *PLoS One*. <http://dx.doi.org/10.1371/journal.pone.0167119>

Tapia**, M., Meyer**, K., Richardson*, R., Ghinescu, R., & Schachtman, T.R. (2016). Blocking of learned irrelevance using an Eriksen flanker task. *Experimental Psychology*, 63, 287-296.

Olver, T.D., McDonald, M.W., Klakotskaia*, D., Richardson*, R.A., Jasperse, J.L., Melling, C.W., Schachtman, T.R., Yang, H.T., Emter, C.A., & Laughlin, M.H. (2017). A chronic physical activity treatment in obese rats normalizes the contributions of ET-1 and NO to insulin-mediated posterior cerebral artery vasodilation. *Journal of Applied Physiology*, 122, 1040-1050. DOI: 10.1152/jappphysiol.00811.2016.

Schachtman, T.R., Richardson, R.A., & Michener, P.N. (in press). Interactions between CSs during the attenuation of neophobia. In S. Reilly (Ed.), *Food Neophobia: Behavioral and Biological Influences*. Elsevier: Amsterdam.

Schachtman, T., & Blaisdell, A. (in press). Ralph Miller. In J. Vonk & T. Shackelford (Eds), *Encyclopedia of Animal Cognition and Behavior*. Section Editor, Oskar Pineno. New York: Springer Publishing.

Christoffersen, G.R.J., *Laugesen, J.L., Møller, P., Bredie, W.L.P., Schachtman, T.R., *Liljendahl, C., & *Viemose, I. (in press). Long-term visuo-gustatory appetitive and aversive conditioning potentiates human visual evoked potentials. *Frontiers in Human Neuroscience*.

Olver, T.D., Hiemstra, J.A., Edwards*, J.C., Schachtman, T.R., Heesch, C.M., Fadel, P.J., Laughlin, M.H., & Emter, C.A. The loss of female sex hormones exacerbates cerebrovascular and cognitive dysfunction in aortic banded mini-swine. Submitted to the *Journal of the American Heart Association*.

Clark*, K.M., Hardman*, K., Schachtman, T.R., Saults, J.S., Glass, B.A., & Cowan, N. Development of working memory for tone frequency: capacity and precision. *Developmental Psychology*, Manuscript accepted pending revisions.

Klakotskaia*, D., Richardson*, R. Schachtman, T.R., Agca, C., & Agca, Y. Learning and memory effects using a rat model of Alzheimer's disease using the Presenilin 1 transgene addition to amyloid precursor protein overexpression. Manuscript in preparation.

Klakotskaia*, D., Richardson, R.A., & Schachtman, T.R. Effects of a retention interval on blocking by a latent inhibitor. *Learning & Motivation*. Manuscript accepted pending revisions.

Richardson*, R.A., Michener*, P.N., & Schachtman, T.R. Effects of Extinction of a Competing, Nontarget CS on Performance to a Target CS. *Behavioural Processes*. Manuscript about to be submitted.

Ramsey, A.K., Richardson, R.A., Klakotskaia, D., Woodall, E., Simonyi, A., & Schachtman, T.R. The effect of a mGluR7 antagonist on a dopamine agonist-induced murine model of obsessive compulsive behavior. Manuscript in preparation.

Schachtman, T.R., & Li, Y. Retrospective revaluation of social attributions. Manuscript in preparation.

Agca, C., Klakotskaia*, D., Richardson, R.A., Schachtman, T.R., & Agca, Y. (2016). Interaction of ovarian hormones and the presenilin 1 transgene addition to amyloid precursor protein overexpression on learning in transgenic rats. Manuscript in preparation.

Carney**, S., Clark*, K.M., Scott?, Nelson?, Schachtman, T.R. Effects of Non-lyrical Music on Working Memory, *Journal of Research in Cognition*, Manuscript in preparation.

Schachtman, T.R., Christoffersen, G.R.T., & Michener*, P. N. Cue interactions involving positive and negative contingencies in human and nonhuman animals.

Richardson*, R., J., Michener*, P.N., & Schachtman, T.R. Effects of extinction and Pavlovian conditioned inhibition training on retardation test performance. Manuscript in preparation.

SPECIAL ISSUE OF A JOURNAL (served as Guest Editor)

Schachtman, T.R. (Editor). (2004). Special Issue on Pavlovian conditioning: Associative Processes. *International Journal of Comparative Psychology*. 17.

ACADEMIC BOOK PUBLISHED (Univ of Missouri)

Schachtman, T.R., & Hart*, J.A. (1994). *Animal behavior*. Columbia, MO: Center for Independent Study.

PAPERS AND ABSTRACTS FROM PROFESSIONAL MEETINGS

Kaspro*, W. J., Capra**, S., Cacheiro**, H., & Schachtman*, T. R. Latent inhibition of the conditioning context: Contextual potentiation of retrieval in the absence of context-US associations. Eastern Psychological Association, Baltimore, MD, 1982.

Miller, R. R., Kaspro*, W. J., Schachtman*, T. R., & Cacheiro**, H. Extinction does not depend on the degradation of event memories. Psychonomic Society, Minneapolis, MN, 1982.

Miller, R. R., Kaspro*, W. J., & Schachtman*, T. R. Analysis of the comparator hypothesis of conditioned responding. Psychonomic Society, San Diego, CA, 1983.

Schachtman*, T. R., & Gee**, J-L. Processing of the added stimulus element during compound stimulus pairings in a blocking procedure. Eastern Psychological Society, Philadelphia, PA, 1983.

Miller, R. R., Sissman**, M., Schachtman*, T. R., & Brown*, A. M. The relationship of latent inhibition to conditioned inhibition. Psychonomic Society, San Antonio, TX, 1984.

Schachtman*, T. R., Catterson**, D., & Miller, R. R. Enhancement of conditioned inhibition by operational extinction. Eastern Psychological Association, Baltimore, MD, 1984.

Brown*, A. M., Schachtman*, T. R., & Miller, R. R. Recovery of an extinguished taste aversion. Eastern Psychological Society, Boston, MA, 1985.

Miller, R. R., & Schachtman*, T. R. Comparator response rules for Pavlovian conditioning obviate the need for inhibitory associations: Analysis of retarded acquisition by putative conditioned inhibitors. Experimental Psychology Society, Cambridge, England, 1985.

Schachtman*, T. R., Brown*, A. M., & Miller, R. R. Retroactive interference in the rat: Independent effects of the time of interpolation and similarity of the intervening event to the target event. Eastern Psychological Association, Boston, MA, 1985.

Honey*, R. C., Hall, G., & Schachtman, T. R. The determinants of attention during partial reinforcement in serial autoshaping procedures. Experimental Analysis of Behavior Group, London, England, 1986.

Miller, R. R., Matzel*, L. D., & Schachtman, T. R. Performance, not acquisition, deficits following US preexposure. Psychonomic Society, 1986.

Reed*, P., Schachtman, T. R., & Hall, G. Procedures for producing potentiation of instrumental responding. Experimental Psychology Society, Durham, England, 1986.

Schachtman, T. R., Honey*, R., & Hall, G. Effects of CS preexposure on inhibition of delay. Experimental Analysis of Behavior Group, St. Andrews, Scotland, 1986.

Hall, G., Reed*, P., & Schachtman, T. R. Symmetry in learning: Potentiation and overshadowing of instrumental responding. Experimental Psychology Society, London, England, 1987.

Schachtman, T. R., Moynihan, J., Grotta, L. J., & Ader, R. A. Autoimmune MRL mice self-select therapeutic doses of cyclophosphamide. Soc. Neurosci. Abstr., 13, 1987.

Matzel, L. D., Schachtman, T. R., & Miller, R. R. Learned irrelevance as an independent process. Eastern Psychological Association, Buffalo, NY, 1988.

Moynihan, J. A., Schachtman, T., Cohen, N., & Ader, R. Chronic stress can interfere with low-dose antigen priming. ICN-UCLA Symposium on Stress, Keystone, CO., 1988.

Reed*, P., & Schachtman, T. R. Negative contingency schedules and optimization. Experimental Analysis of Behavior Group, London, England, 1988.

Schachtman, T. R., Moynihan, J., Grotta, L. J., & Ader, R. Self-selection of cyclophosphamide by mice with autoimmune disease. Eastern Psychological Association, Buffalo, NY, 1988.

Schachtman, T. R., Moynihan, J., Grotta, L., & Ader, R. Self-administration of cyclophosphamide by autoimmune mice. Soc. Neurosci. Abstr., 14, 1988.

Cohen, N., Moynihan, J., Schmidt*, S., Schachtman, T., Grotta, L., & Ader, R. (1989). Inescapable footshock stress prolongs survival of MRL-lpr/lpr mice. *International Journal of Neuroscience*, 48, 141.

Grotta, L. J., Moynihan, J. A., Schmidt*, S. G., Schachtman, T. R., Cohen, N., & Ader, R. Inescapable footshock stress prolongs survival in MRL-lpr/lpr autoimmune mice. Soc. Neurosci. Abstr., 15, 1989.

Schachtman, T. R., Gustavson*, K., & Chelonis**, J. Effects of reinstatement on the blocking potential of a CS. Midwestern Psychological Association, Chicago, IL, 1989.

Bourne*, M. J., & Schachtman, T. R. The effects of brief swim stress upon conditioned taste aversion. Eastern Psychological Association, Philadelphia, PA, 1990.

Chelonis**, J. J., Calton*, J. L., & Schachtman, T. R. Attenuation of the renewal effect by extinction in multiple contexts. Eastern Psychological Association, Philadelphia, PA, 1990.

Gustavson*, K. K., Chelonis**, J. J., & Schachtman, T. R. Potential mechanisms underlying the effects of reinstatement on an extinguished blocking stimulus. Eastern Psychological Association, Philadelphia, PA, 1990.

Kaspro, W. J., & Schachtman, T. R. Temporal course of "distractor effects" in attenuation of neophobia and latent inhibition. Eastern Psychological Association, Philadelphia, PA, 1990.

Schachtman, T. R., Kaspro, W. J., & Meyer*, R. C., & Bourne*, M. J. Absence of recovery from overshadowing by extinction of the overshadowing stimulus. Midwestern Psychological Association, Chicago, IL, 1990.

Butchart**, B. R., Hart*, J. A., & Schachtman, T. R. Context-US pairings after CS-US conditioning attenuates conditioned responding. Eastern Psychological Association, New York, NY, 1991.

Gustavson*, K. K., Bourne*, M. J., & Schachtman, T. R. Effects of reinstatement on one-trial conditioning of an added, novel CS. Eastern Psychological Association, New York, NY, 1991.

Schachtman, T. R., Butchart**, B. R., Calton*, J. L., & Reilly, S. Attenuation of the habituation of neophobia by swim stress. Psychonomic Society, San Francisco, CA, 1991.

Bourne*, M. J., Wright, D. C., Low*, K. A., Butchart**, B. R., & Schachtman, T. R. Stress as a context in tests for conditioned taste aversion. Midwestern Psychological Association, Chicago, IL, 1992.

Butchart**, B. R., Gustavson*, K. K., & Schachtman, T. R. Retarded reacquisition of an extinguished CS in conditioned taste aversion. Midwestern Psychological Association, Chicago, IL, 1992.

Hart*, J. A., Calton*, J. L., & Schachtman, T. R. Context extinction after massed-trials autoshaping. Midwestern Psychological Association, Chicago, IL, 1992.

Schachtman, T.R., Hart*, J.A., & McEwen**, M. Analysis of mechanisms underlying slow reacquisition of an extinguished taste aversion. Psychonomic Society, St. Louis, MO, 1992.

Bradfield*, J., Schachtman, T., Steffen, E., & McLaughlin, R. Behavioral and physiologic effects of inapparent wound infection in rats. Association of Laboratory Animal Science, Washington, D.C., 1992.

Calton*, J.L., Luce**, B., & Schachtman, T.R. Conditioned rotation stress and health in lupus-prone mice. Midwestern Psychological Association, Chicago, IL, 1993.

Calton*, J.L., Mitchell**, K.G., & Schachtman, T.R. Effects of pre-session waits on autoshaped responding. Midwestern Psychological Association, Chicago, IL, 1993.

Schachtman, T.R., Hart*, J.A., & Calton*, J.L. The effects of session duration and context extinction in conditioned taste aversion. Psychonomic Society, Washington, D.C., 1993.

Hart*, J.A., Gustavson*, K.K., Calton*, J.L., & Schachtman, T.R. Effect of predation risk on pigeons foraging in a patchy environment. Animal Behavior Society, Seattle, WA, 1994.

Schachtman, T.R., Mitchell**, K.G., & Hart*, J.A. Extinction and reacquisition of foraging behavior in pigeons (*Columba livia*). Animal Behavior Society, Seattle, WA, 1994.

Schachtman, T.R., Calton*, J.L., Gustavson*, K.K., & Threlkeld*, R. Conditioned inhibition produced by extensive extinction of a conditioned stimulus. Psychonomic Society, St. Louis, MO, 1994.

Calton*, J.L., Hart*, J.A., Threlkeld*, R.C., & Schachtman, T.R. Attenuation and reacquisition of foraging in a patchy environment. Midwestern Psychological Association, Chicago, IL, 1995.

Threlkeld*, R.C., Stadler, M.A., & Schachtman, T.R. Blocking of covariation judgments. Midwestern Psychological Association, Chicago, IL, 1996.

Meyer**, K., Schachtman, T.R. The influence of degree of training on context specificity of and extinguished taste aversion. Eastern Psychological Association, Philadelphia, PA, 1996.

Brown**, M.M., & Schachtman, T.R. The effects of interpersonal factors and reversibility on health-care decision making. Midwestern Psychological Association, Chicago, IL, 1997.

Schachtman, T.R., Hart*, J.A., & Meyer**, K. Retention of conditioned inhibition produced by extinction. Midwestern Psychological Association, Chicago, IL, 1997.

Schachtman, T.R., Ghinescu*, R., & Hart*, J. Enhancing blocking by a latent inhibitor with a retention interval. American Psychological Association, San Francisco, CA, 1998.

Simonyi, A., Schachtman, T., Bills*, C., Ghinescu*, R., & Franke**, R. Effect of a Group 1 mGluR antagonist on habituation of neophobia and conditioned taste aversion. Meeting of the Society for Neuroscience, New Orleans, LA, 2000.

Ghinescu*, R., Gratton, G., Fabiani, M., Stadler, M., & Schachtman, T.R. Blocking effects in a noise compatibility paradigm. Midwest Psychological Association meeting, Chicago, IL, 2001.

Bills*, C., Ghinescu*, R., Murch**, K., Schachtman, T.R. Effects of a retention interval on blocking by a latent inhibitor. Midwest Psychological Association, Chicago, IL, 2001.

Schachtman, T.R., Bills*, C., Ghinescu*, R., & Franke**, R., Murch**, K., & Simonyi, A. MPEP, a selective metabotropic glutamate receptor antagonist, attenuates conditioned taste aversion in rats. Society for Neuroscience, San Diego, November, 2001.

Schachtman, T.R., Bills*, C., Ghinescu*, R., & Franke**, R., Murch**, K., & Simonyi, A. MPEP, a selective metabotropic glutamate receptor antagonist, attenuates conditioned taste aversion in rats. Missouri Chapter for Neuroscience, April, 2001.

Bills*, C., Schulte**, E., Myers**, N., & Schachtman, T. Conditioned inhibition produced by extinction and Pavlovian conditioned inhibition training. Midwestern

Psychological Association, Chicago, IL, May 2002.

Schachtman, T.R., Bills*, C., Ghinescu*, R., Murch**, K., Simonyi, A. The effects of MPEP, a selective metabotropic glutamate receptor 5 antagonist, on conditioned taste aversion in rats. Midwestern Psychological Association, Chicago, IL, May 2002.

Schachtman, T.R., Bills*, C.H., Pineno*, O. Effects of extinguishing a CS on competition with another CS. Psychonomic Society, Kansas City, MO, November, 2002.

Schachtman, T.R. Effects of extinction on blocking, summation and retardation tests. Invited address presented at the meeting of the Eastern Psychological Association, Baltimore, MD, March, 2003.

Schachtman, T.R., Bills*, C., Shelat*, P.B., Smith*, S., Serfozo, P., & Simonyi, A. Metabotropic glutamate receptor 5 and latent inhibition using conditioned taste aversion. Presentation at the meeting of the Society for Neuroscience, New Orleans, November, 2003.

Smith*, S., Mason*, M., Baynit**, K., & Schachtman, T.R. Effects of context exposure during conditioned taste aversion learning. Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2004.

Hamilton, Z.**, Schachtman, T.R., & J.S. Saults. Effect of expected acute alcohol intoxication on working memory. Presented at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2004.

Schachtman, T.R., Bills*, C., Smith*, & S., Heyden**, E. Effects of a metabotropic glutamate antagonist, MPEP, on latent inhibition in CTA. Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2004.

Schachtman, T.R. Extinction, inhibition, retrieval, and associative competition. Invited address at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2004.

Simonyi, A., Shelat*, P.B., Coulibaly*, A., Serfozo, P., & Schachtman, T.R. Effect of metabotropic glutamate antagonism on inhibitory avoidance. Presentation at the meeting of the Federation of European Neuroscience Society, Lisbon, Portugal, 2004.

Mason*, M.M., Smith*, S.M., Green**, J.R., Kunchitahapatham**, K., Miller, D.K., & Schachtman, T.R. The effects of dietary cadmium exposure on nicotine- and LiCl-produced conditioned taste aversion. Presentation at the Life Sciences Research Symposium, April, 2004.

Smith*, S., Bills*, C., Baynit**, K., Shellat*, P., Serfozo, P., Schachtman, T., & Simonyi, A. Effects of metabotropic glutamate receptors 1 & 5 on latent inhibition

in conditioned taste aversion. Presentation at the Life Sciences Research Symposium, April, 2004.

Ibe*, M., Wendt*, K., Schachtman, T., & Katz, M.L. Behavioral assessment of mouse models of neurodegenerative disorders. Presentation at the Life Sciences Research Symposium, April, 2004.

Dopheide*, M., Smith*, S.M., Cunningham, C.S., Schachtman, T.R., Dunsmore, M.E., Casteel, S.W., & Miller, D.K. Dietary cadmium exposure attenuates amphetamine-evoked dopamine release and methamphetamine-induced hyperactivity in rats. Abstract to be presented at the meeting of the Society for Neuroscience, San Diego, October, 2004.

Schachtman, T.R., Shellat*, P.B., Serfozo, P., Simonyi, A. Metabotropic glutamate receptor 5 in inhibitory avoidance learning. Abstract presented at the meeting of the Society for Neuroscience, San Diego, October, 2004.

Kichnet*, R., Smith*, S., Dopheide*, M., Heyden**, E., & Schachtman, T.R. Effects of Extinction on Associative Competition in Conditioned Taste Aversion. . Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2005.

Dopheide*, M.M., Shanahan**, N.A., Shellat*, P.B., Coulibaly**, A.P., Simonyi, A., & Schachtman, T.R. Effect of a metabotropic glutamate receptor 5 antagonist, MPEP, on inhibitory avoidance. Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2005.

Smith*, S., Dopheide*, M., Schachtman, T.R., & Miller, D.K. Dietary Cadmium Exposure Attenuates d-Amphetamine-Evoked [3H]Dopamine. Midwestern Psychological Association, Chicago, IL, May 2005.

Shanahan**, N.A., Coulibaly**, A.P., Dopheide*, M., Shelat*, P.B., Schachtman, T.R., & Simonyi, A. Mechanisms by which metabotropic glutamate receptor 5 influences inhibitory avoidance learning. Midwestern Psychological Association, Chicago, IL, 2005.

Coulibaly**, A.P., Shelat*, P.B., Dopheide*, M.M., Serfozo, P., Schachtman, T.R., & Simonyi, A. Hippocampal metabotropic glutamate receptor 5 in inhibitory avoidance. Society for Neuroscience, Washington, D.C., November, 2005.

Coulibaly**, A.P., Shelat*, P.B., Dopheide*, M.M., Serfozo, P., Schachtman, T.R., & Simonyi, A. Hippocampal metabotropic glutamate receptor 5 in inhibitory avoidance learning. Molecular and Cellular Cognition Society, Washington, D.C., November, 2005.

Coulibaly**, A.P., Shelat*, P.B., Dopheide*, M.M., Serfozo, P., Schachtman,

T.R., & Simonyi, A. Hippocampal metabotropic glutamate receptor 5 in inhibitory avoidance. Presentation at the meeting of the Missouri Chapter for Neuroscience, March, 2006.

Kichnet*, R., Smith*, S., Dopheide*, M., Hock**, R., & Schachtman, T.R. Effects of swim stress on neophobia, latent inhibition, and reacquisition. Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2006.

Smith*, S., Kichnet*, R., Fieser**, S., Kunchithapatham**, K., & Schachtman, T.R. Postconditioning Manipulation of Context Associative Strength on Conditioned Responding in Conditioned Taste Aversion. Presentation at the meeting of the Midwestern Psychological Association, Chicago, IL, May 2006.

Brase, G.L., Winton**, B., Jones**, J., Gleeson**, N., & Schachtman, T.R. Mate choice copying in humans. Midwestern Psychological Association, Chicago, IL, May 2006.

Schachtman, T.R., Jones**, J., Balzer**, M., & Sheldon, K.M. Obligations, internalization, and excuses: Testing the triangle model of responsibility. Midwestern Psychological Association, Chicago, IL, May 2006.

Pineño, O., Zilski*, J. M., & Schachtman, T. R. Second-order conditioning in a compound extinction treatment. Spanish Society of Comparative Psychology. Málaga, Spain, September 2006.

Schachtman, T.R., Smith*, S., Fieser**, S., & Jones**, J. The effects of swim stress on neophobia, latent inhibition, and reconditioning. Meeting of the Pavlovian Society, Philadelphia, PA, September, 2006.

Coulibaly**, A.P., Shanahan**, N.A., Shelat*, P.B., Serfozo, P., Schachtman, T.R., & Simonyi, A. Region-Specific Induction of Immediate Early Genes Following Inhibitory Avoidance Learning in Rat Brain, ABRCMS meeting, Anaheim, CA, 2006.

Schachtman, T.R. Gone but not forgotten: Extinction, retrieval and interference. Conference on Animal Learning, Seville, Spain, July, 2006.

Miller, D.K., Dopheide*, M.M., Rodvelt*, K.R., Schachtman, T.R., & Morgan, R.E. The behavioral and neurochemical effects of modafinil are mediated by the dopamine transporter, Meeting of the American Society for Pharmacology and Experimental Therapeutics, Washington, D.C., 2007.

Rodveldt*, K.R., Kracke, G.R., Schachtman, T.R., & Miller, D.K. Ketamine alters nicotine-evoked dopamine release. FASEB, Washington, D.C., 2007.

Miller, D. K., Dopheide*, M. M., Rodvelt*, K. R., Morgan, R. E., & Schachtman, T. R. Evaluation of the role of the dopamine transporter in the effects of modafinil

(Provigil). University of Missouri Life Sciences Conference, 2007.

Coulibaly**, A.P., Shanahan**, N.A., Shelat*, P.B., Schachtman, T.R., & Simonyi, A. Region-Specific Induction of Immediate Early Genes Following Inhibitory Avoidance Learning in Rat Brain. Society for Neurosciences, San Diego, CA, 2007.

Rodvelt*, K. R., Kracke, G. R., Schachtman, T. R., & Miller, D. K. Ketamine alters the effect of nicotine to evoke dopamine release in rat striatum and PFC. University of Missouri Life Sciences Conference, 2007.

Brase, G.L., Hirsch**, S., Thatcher**, J.T., & Schachtman, T.R. Do people shift adaptively between retrospective and prospective memory? Presentation at the Midwestern Psychological Association. Chicago, May, 2008.

Walker*, J., Ramsey*, A., Serfozo, P., Simonyi, A., & Schachtman, T.R. Effects of mGluR5 and mGluR7 agonists and antagonists on CTA. Presentation at the Midwestern Psychological Association. Chicago, May, 2008.

Ramsey*, A., Ghinescu, R., Thatcher**, J.T., & Schachtman, T.R. (2008). Competition in strategic control of learning using a flanker task. Presentation at the Midwestern Psychological Association. Chicago, May, 2008.

Hirsch**, S., & Schachtman, T.R. The effects of autonomous and controlled motivation on goal disengagement. Presentation at the Midwestern Psychological Association. Chicago, May, 2008.

Rodvelt*, K. R., Kracke, G. R., Schachtman, T. R., & Miller, D. K. Ketamine increases sensitivity to nicotine in rat striatum and prefrontal cortex. University of Missouri Department of Psychological Sciences Psychology Day Conference, April, 2008.

Simonyi A., Serfozo P., Shelat*, P.B., Ramsey*, A.K., Schachtman, T.R. Metabotropic glutamate receptor 5 in conditioned taste aversion learning. Sixth International Meeting on Metabotropic Glutamate Receptors, Taormina, Sicily, Italy, September, 2008.

Rodvelt*, K. R., Kracke, G. R., Schachtman, T. R., & Miller, D. K. NMDA receptor blockade by ketamine augments nicotine-evoked dopamine release in rat striatal and prefrontal cortex slices. Central Missouri Chapter of Society for Neuroscience Brain Awareness Week. April, 2008.

Simonyi A., Serfozo, P., Shelat*, P.B., Ramsey*, A.K., Schachtman, T.R. Metabotropic glutamate receptor 5 in conditioned taste aversion learning. Society for Neurosciences, Washington, D.C., November, 2008.

Walker*, J., Ramsey*, A., Shelat*, P.B., Simonyi, A., & Schachtman, T.R.

MTEP, a selective mGluR5 antagonist, in the insular cortex attenuates neophobia. Midwestern Psychological Association, Chicago, May, 2009.

Ramsey*, A., Wade*, S., Serfozo, P., Simonyi, A., & Schachtman, T.R. The effect of a selective mGluR7 agonist on CTA. Midwestern Psychological Association, Chicago, May, 2009

Hill**, L., Ferguson*, Y., Gunz*, A., Schachtman, T.R., & Sheldon, K.M. Psychological Authenticity: Concordance of the social self and the “real” self. Midwestern Psychological Association, Chicago, May, 2009.

Schachtman, T.R., Ramsey*, A., Wade*, S., Walker*, J., & Simonyi, A. Effects of metabotropic glutamate receptors 5 and 7 on conditioned taste aversion. Eastern Psychological Association, Brooklyn, March, 2010.

Walker*, J., Miller, D.K., Schachtman, T.R., Sun, G., & Simonyi, A. Spatial learning in TgCRND8, a murine model of Alzheimer’s disease. Eastern Psychological Association, Brooklyn, March, 2010.

Schachtman, T.R., Ramsey*, A., Fowler*, S., Walker, J., & Simonyi, A. Effects of metabotropic glutamate receptors 5 and 7 on conditioned taste aversion. Midwestern Psychological Association, Chicago, IL, 2010.

Wade*, S.L., Ramsey*, A.K., Walker*, J., Serfozo, P., Olive, M.F., Schachtman, T.R., & Simonyi, A. Functional interaction of mGlu5 and NMDA receptors in aversive learning. Society for Neuroscience, San Diego, 2010.

Walker*, J. M., Wade*, S.L., Ramsey*, A.K., Miller, D.K., Sun, G.Y., Simonyi, A., Schachtman, T.R., & Simonyi, A. Functional interaction of mGlu5 and NMDA receptors in aversive learning. Society for Neuroscience, San Diego, 2010.

Ramsey*, A.K., Wade*, S.L., Walker*, J., Serfozo, P., Simonyi, A., & Schachtman, T.R. The effects of an mGlu7 receptor agonist on conditioned taste aversion. Society for Neuroscience conference, San Diego, 2010.

Schachtman, T.R., Ramsey*, A.K., Wade*, S.L., & Walker*, J.M. Conditioned inhibition in conditioned taste aversion. Psychonomic Society, St. Louis, MO, November, 2010.

Fowler*, S., Ramsey*, A., Serfozo, P., Simonyi, A., & Schachtman, T.R. Interaction of mGlu5 and NMDA receptors in inhibitory avoidance and CTA learning. Midwestern Psychological Association, Chicago, May, 2011.

Ramsey*, A., Fowler*, S., Serfozo, P., Simonyi, A., & Schachtman, T.R. The effect of a selective mGluR7 antagonist, MMPIP, on CTA. Abstract submitted for the meeting of the Midwestern Psychological Association, Chicago, May, 2011.

Jasarevic*, E., Sieli, P.T., Warzak, D.A., Caldwell, L., Welsh, Jr., T.H., Hess, R.A., Schachtman, T., Geary, D.C., Rosenfeld, C.S. Maternal exposure to bisphenol A disrupts and reverses sex differences in deer mice (*Peromyscus maniculatus*) offspring. Society for the Study of Reproduction, Portland, OR, August, 2011.

Fowler*, S.W., Walker*, J.M., Ramsey*, A.K., Serfozo, P., Schachtman, T.R., Simonyi, A. Positive allosteric modulation of mGlu5 receptors and spatial learning. Society for Neuroscience, Washington, D.C., 2011.

*Walker, J.M., *Fowler, S.W., Simonyi, A., & Schachtman, T.R. Spatial learning and memory impairment in a mouse model of Alzheimer's Disease. Psychonomic Society, Seattle, WA, November, 2011.

Schachtman, T.R., *Ramsey, A.K., *Fowler, S.W., **Tapia, M., & Ghinescu, R. Competition between cues using a flanker task. Midwestern Psychological Association, Chicago, IL, May, 2012.

Tapia**, M., & Schachtman, T.R. Cue competition during learned irrelevance using a flanker task. Midwestern Psychological Association, Chicago, IL, May, 2012.

Beversdorf, D., Hecht*, P., Hampton*, J.L., Schachtman, T.R., & Will, M. Rodent model of the effect of beta-adrenergic agents on creative problem solving. American Academy of Neurologists, 2012.

Spiegel**, L.R., Cowan, N., Schachtman, T.R., & Sauls, J.S. Effects of Cueing the relevance of items in short-term sentence recognition. Midwestern Psychological Association, Chicago, IL, May, 2012.

Carney, ** S., & Schachtman, T.R. The effects of non-lyrical, classical music on iconic memory. Midwestern Psychological Association, Chicago, IL, May, 2012.

Walker*, J.M., Wade*, S.L., Ramsey*, A.K., Miller, D.K., Sun, G.Y., Simonyi, A., & Schachtman, T.R. Impaired spatial learning and increased locomotion activity in TgCRND8 mice, a murine model of Alzheimer's disease. Midwestern Psychological Association, Chicago, IL, May, 2012.

Ramsey*, A.K., Fowler*, S.W., Serfozo, P., Simonyi, A., & Schachtman, T.R. The effects of an mGluR7 agonist and antagonist on conditioned taste aversion. Midwestern Psychological Association, Chicago, IL, May, 2012.

Spiegel**, L., Schachtman, T.R., Sauls, J.S., Cowan, N. Effects of cueing the relevance of items in short-term sentence recognition. Life Sciences Week, Columbia, MO, April, 2012.

Viemose*, Møller, I.P., Schachtman, T.R., & Christoffersen, G.R.J. Flavour

conditioning in humans changes sensory evoked potentials and their coherence of in the visual cortex. Meeting of the Society for Neuroscience, New Orleans, November, 2012.

Ramsey*, A.K., Fowler*, S.W., Walker*, J.M., Serfozo, P., Simonyi, A., & Schachtman, T.R. (2012). The effect of a selective mGluR7 antagonist, MMPIP, on CTA acquisition. Society for Neuroscience. New Orleans, LA, November, 2012.

Klakotskaia*, D., Ramsey*, A.K., Walker*, J.M., Fowler*, S.W., Serfozo, P., Simonyi, A., & Schachtman, T.R. The role of mGlu2/3 and mGlu4 receptors on conditioned taste aversion. Society for Neuroscience, New Orleans, November, 2012.

Hecht*, P., Will, M., Schachtman, T., Welby**, L., Ferguson**, B., & Beversdorf, D. Rodent model of the effect of beta-adrenergic agents on creative problem solving. Meeting of the Society for Neuroscience, New Orleans, November, 2012.

Moller, P., Viemose*, I., Schachtman, T., Manoharan, T., Christoffersen, G. Appetitive long-term flavour aversion modulates human visual evoked potentials. International Symposium on Olfaction and Taste. Stockholm, Sweden, June, 2012.

Beversdorf, D., Hecht*, P., Schachtman, T., Will, M. Effect of beta-adrenergic agents on creative problem solving in humans and rodents. Cognitive Neuroscience Society, San Francisco, April, 2013.

Klakotskaia*, D., Fowler*, S.W., Ramsey*, A.K., Serfozo, P., Simonyi, A., & Schachtman, T.R. Role of mGlu2/3 and mGlu4 receptors on conditioned taste aversion. Eastern Psychological Association, New York, NY, March, 2013.

Walker*, J.M., & Schachtman, T.R. Effects of exercise on spatial learning and behavior in an Alzheimer's mouse model. Eastern Psychological Association, New York, NY, March, 2013.

Ramsey*, A.K., & Schachtman, T.R. Role of mGlu2/3 and mGlu4 receptors on conditioned taste aversion. Eastern Psychological Association, New York, NY, March, 2013.

Walker*, J.M., Simonyi, A., Sun, G. Y., & Schachtman, T.R. Beneficial effects of botanical polyphenol diets and exercise on behavior in Alzheimer's disease mouse models. Conference on botanical substances and neuroscience. Columbia, MO.

Ramsey*, A.K., Klakotskaia*, D., Schachtman, T.R., Howell, S., Richardson, R., Woodall, E., Weinstein, C., Serfozo, P., & Simonyi, A. The interaction of mGluR7 and dopamine in a murine model of obsessive-compulsive disorder. Meeting of the Society for Neuroscience, San Diego, November, 2013.

Schachtman, T.R., Klakotskaia*, D., & Richardson*, R. Effects of the degree of training on the context specificity of extinguished taste aversions. Meeting of the Society

for Neuroscience, San Diego, November, 2013.

Walker*, J.M., Ramsey, A.K., Klakotskaia, D., Sun, G., Simonyi, A., & Schachtman, T. Effects of exercise on spatial learning and behavior in TgCRND mice. Meeting of the Society for Neuroscience, San Diego, November, 2013.

Klakotskaia*, D., McCabe**, M., Richardson*, R., Woodall, E., & Schachtman, T.R. The role of thiamine deprivation on flavor-thiamine-induced flavor preferences. Meeting of the Eastern Psychological Association, Philadelphia, March, 2015.

Meyer**, K., Tapia**, Richardson*, R., Ghinescu, R., & Schachtman, T.R. Stimulus competition during learned irrelevance training. Meeting of the Eastern Psychological Association, Philadelphia, March, 2015.

Klakotskaia*, D., & Richardson*, R., & Schachtman, T.R. The degree of training on the context specificity of extinguished taste aversions. Meeting of the Eastern Psychological Association, Boston, March, 2014.

Richardson*, R., McCabe**, M., Woodall**, E., Weinstein**, C., & Schachtman, T.R. Effects of thiamine-deficiency on flavor consumption after flavor-thiamine pairings. Meeting of the Eastern Psychological Association, Philadelphia, PA, March 2015.

Klakotskaia*, D., & Richardson*, R.R., McCabe, M., Woodall, E., Weinstein, C., & Schachtman, T.R. Effects of thiamine deficiency on flavor consumption after flavor-thiamine pairings. Meeting of the Society for Neuroscience, Washington, D.C., November, 2014.

Clark, K.M., Hardman, K., Schachtman, T.R., Sauls, J.S., Glass, B.A., & Cowan, N. Development of working memory capacity and precision for tones. Meeting of the Cognitive Development Society, Columbus, Ohio, October, 2015.

Klakotskaia*, D., & Richardson*, R.A., Larson, T.A., Woodall, E., Patel, K., Burrus, M.K., Clark, K.M., Agca, C., Schachtman, T.R., & Agca, Y. Memory deficits in rats using a model of Alzheimer's disease with an overexpression of APP21 and the presenilin 1 transgene. Meeting of the Society for Neuroscience, Chicago, October, 2015.

Clark*, K.M., Hardman*, K.O., Schachtman, T.R., Sauls, J.S., Glass, B.A., & Cowan, N. Development of working memory capacity and precision for tone pitch. Meeting of the Psychonomic Society, Chicago, IL, November, 2015.

Klakotskaia*, D., Richardson*, R.A., Larson**, T., Woodall**, E., **Patel, K., **Burrus, M., *Clark, K.M., Agca, C., Schachtman, T.R., & Agca, Y. Memory deficits in a rat model of Alzheimer's disease with an overexpression of APP21 and PS1. Meeting of the Eastern Psychological Association, New York, April, 2016.

Klakotskaia*, D., Richardson*, Bowie**, D.C., Crosby**, S., Juszczak**, C.J., Pak**, L.Y., Mudd**, S.M., Agca, C., Schachtman, T.R., & Agca, Y. Spatial learning and memory performance in two APP21-overexpressing transgenic rat models of Alzheimer's disease. Meeting of the Society for Neuroscience, San Diego, November, 2016.

Linsky**, E., & Schachtman, T.R. Self-determination theory and feedback choice: Approach and avoidance. Meeting of the Midwestern Psychological Association, Chicago, May, 2016.

Olver, T.D., Hiemstra, J., Edwards, J.C., Ivey, J.R., Thorne, P.K., Schachtman, T.R., Fadel, P.J., Heesch, C.M., Laughlin, M.H., & Emter, C.A. Female sex hormones are protective of vascular cognitive impairment in aortic-banded mini-swine. Presentation at the meeting of the American Heart Association, New Orleans, November, 2016.

Barounis, L., Olver, T.D., Thorne, P.K., Klakotskaia*, D., Richardson*, R.A., Schachtman, T.R., & Laughlin, M.H. The Role of Physical Activity in the Treatment of Type 2 Diabetes-Induced Vascular Cognitive Impairment. Veterinary Medicine Scholars Program, 2016.

Olver, T.D., McDonald, M.W., Klakotskaia*, D., Richardson*, R.A., Jasperse, J.A., Yang, H.T., Thorne, P.K., Melling, J., Schachtman, T.R., Emter, C.A., & Laughlin, M.H. Spontaneous physical activity reverses type 2 diabetes-induced cerebrovascular insulin-resistance by normalizing insulin-stimulated endothelin-1 action. Cardiovascular Day Conference, University of Missouri

Tamasi**, A., & Schachtman, T.R. Retention interval enhances blocking by a latent inhibitor. Presentation at the Midwestern Psychological Society, Chicago, IL, 2017.

Razak**, A., & Schachtman, T.R. Cognitive disruptions in elderly female Rats as an animal model of Alzheimer's disease Presentation at the Midwestern Psychological Society, Chicago, IL, 2017.

Schachtman, T.R., & Li*, Y. "Comparative" examination of retrospective revaluation effects. Presentation at the Comparative Cognition Society, Melbourne, Florida, April, 2017.

Schachtman, T.R. The world according to Ralph R. Miller. Presentation at the Comparative Cognition Society, Melbourne, Florida, April, 2017.

Schachtman, T.R., Klakotskaia*, D., Richardson*, R.A., Tamasi**, A., & Baker**, C. Retention intervals enhance associative competition produced by a preexposed conditioned stimulus Presentation to occur at the meeting of the Society for Neuroscience, Washington, D.C., November, 2017.

Klakotskaia*, D., Richardson*, R. A., Kanchanakaset**, P., Weise**, V., Howe**, C., Tratchel**, M., Agca, C., Schachtman, T. R., & Agca, Y. The effect of ovariectomy on spatial learning and memory performance in APP and APP+PS1 rat models of Alzheimer's disease. Presentation at the annual meeting of the Society for Neuroscience, Washington, D.C., November, 2017.

External Grants: Funded, Active or Submitted:

NIH RO1 grant (Schachtman as PI) entitled "Recovery of Extinguished Conditioned Taste Aversions" was funded for four years, \$52,121. (1999-2003)

Convention Chair

Session entitled "Comparative Cognition" at the meeting of the Eastern Psychological Association in Baltimore, MD.

Session entitled "Associative Learning" at the meeting of the Psychonomics Society, New Orleans, 2000.

Organized a session at the 2003 meeting of the Pavlovian Society, Bloomington, IN, Sept 2003 on Associative and Comparative Learning.

Organized a session at the 2010 meeting of the Midwestern Psychological Association, Chicago, IL on Flavor Consumption and Reward.

AWARDS

Received the 1992 Award for most significant research publication by the Association for Laboratory Animal Science

Recipient of the 2007 Excellence in Education Award, University of Missouri

2003 Elected Fellow of the American Psychological Association and Fellow of Division 3 and Division 6

Invited Talks: Memphis State University, University of Seville, Western Oregon University, Western Illinois University, Oregon State University, University of Illinois-Chicago, SUNY-Binghamton, University of Nebraska, Truman State University, University of Sevilla, Spain

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Psychological Association (Fellow): Divisions 3 and 6
American Psychological Society
Eastern Psychological Association
Midwestern Psychological Association
Psychonomic Society (Fellow)
Sigma Xi
Institute for Aging Research, Univ. of Missouri
Society for Neuroscience

REFEREE EXPERIENCE (Ad hoc)

Journal of Experimental Psychology: Animal Behavior Processes
Learning and Motivation
Behavioral Neuroscience
Quarterly Journal of Experimental Psychology
Animal Learning and Behavior/Learning & Behavior
Psychology and Aging
Behavior Research Methods, Instruments and Computers
Psychological Bulletin
Physiology and Behavior/Cognitive, Affective & Behavioral Neuroscience
Psychonomic Bulletin & Review
Current Directions in Psychological Science
Psychological Research
Behavioural Processes
Animal Behaviour
Journal of the Experimental Analysis of Behavior
Behavioral and Brain Functions
Chemical Senses
Psychological Reports
Behavior Therapy
Neurobiology of Learning and Memory
European Journal of Pharmacology/Neuroscience
British Journal of the Philosophy of Science
Acta Neurobiologiae Experimentalis
Neuropsychopharmacology
Brain Pathology
Experimental Psychology
Psychiatry Review
Alcoholism: Clinical and Experimental Research
Journal of Comparative Psychology
Neuropeptides
Clinical Psychological Science
Psychiatry Research
Heliyon

Editorial Board, *International Journal of Comparative Psychology*; *Journal of Alzheimer's Disease* (2015-2016)

Associate Editor, *Learning & Motivation*