

THURSDAY, SEPTEMBER 16: Reception, 6-8:00 PM

FRIDAY, SEPTEMBER 17:

8:30 Continental Breakfast

8:50 Opening remarks

9:00-10:00 (Invited Lecture) Fred Helmstetter

Neurobiology of fear conditioning in rats and humans

10:00-10:15 Break

10:15-11:45 Data Presentations: Fear Conditioning and Effects of Stress on Learning

J.A. Davis & T.J. Gould. *Withdrawal from chronic nicotine impairs contextual but not cued fear conditioning.*

T.J. Gould. *Cholinergic involvement in fear conditioning.*

D. A. Bangasser*, J. Santollo, and T.J. Shors. *The Bed Nucleus of the Stria Terminalis is Necessary for the Long-Term Effect of Stress on Learning.*

Georgia E. Hodes and Tracey J. Shors. *Acute stressful experience enhances extinction of trace memories.*

Jackson, Eric D.; Nadel, Lynn; and Jacobs, W. Jake. *Impact of stress and cortisol on Pavlovian fear conditioning in human males and females*

11:45-12:15 (Invited Presentation) Joseph R. Troisi II

Pavlovian-like Phenomena in Drug Discrimination Research

12:15-1:45 Lunch

1:45-3:20 (SYMPOSIUM) General Cognitive Abilities in Laboratory Mice: Processes and Mechanisms

Louis Matzel. *Paradoxical constraints (or not) on the general learning abilities of outbred mice.*

Mike Galsworthy. *Reliability, heritability, and generality in mouse cognitive task performance.*

Charles LoCurto. *The structure of individual differences in acquisition*

3:20-3:35 Break

3:35-5:20 (Data Presentations) Learning Processes

Jeffrey C. Amundson and Ralph R. Miller. *Spatial contiguity facilitates cue competition and interference*

Kouji Urushihara, Oskar Pineño, Miguel Vadillo, & Ralph R. Miller. *Nonconservation of reinforcer value across competing stimuli.*

Bernard G. Schreurs. *Conditioning-specific reflex modification of rabbit heart rate.*

Daniel S. Wheeler and Ralph R. Miller. *Blocking between subsequent events is not a product of a permanent associative deficit.*

Gonzalo P. Urcelay, Olga Lipatova, & Ralph R. Miller. *A Comparator View of Pavlovian and Differential Inhibition.*

D. A. Townsend, G. Hale, K. Light, S. Kolata, H. Grossman, and L. D. Matzel. *Age and sex influences on individual differences in domain-specific and general learning abilities in mice.*

SATURDAY, SEPTEMBER 18:

8:30 Continental Breakfast

9:00-10:00 (Invited Lecture) Peter Holland

Attention in learning and action.

10:00-10:20 W. Jeffrey Wilson

Instrumental Conditioning in Pavlov's Laboratory as shown in Pudovkin's Mechanics of the Brain.

10:20-10:40 Break

10:40-11:40 (Data Presentations) Brain Substrates of Conditioning

B. Leuner & T.J. Shors. *Learning enhances the survival of new neurons beyond the time when the hippocampus is required for memories.*

D.T. Cheng, D.C. Knight, C.N. Smith, E.A. Stein, F.J. Helmstetter. *Autonomic fear responses and human amygdala activity: An event-related fMRI study.*

Michael C. Lewis & T.J. Gould. *Entorhinal cortex involvement in latent inhibition of cued fear conditioning.*

D.E. Waxler, D.A. Bangasser, & T.J. Shors *The role of contiguity in trace conditioning.*

11:40-12:15 (Invited Presentation) Richard Servatious

Pavlovian Perspectives on Unexplained Illnesses

12:15-1:45 Lunch

1:45-3:15 (Symposium) Neural Substrates of Goal-Directed Behavior

Tim Otto (Session Chair)

Charles Pickens. *Role of Orbitofrontal Cortex In Sensitivity To Goal Value*

Geoffrey Schoenbaum. *Memory traces representing affective value in orbitofrontal cortex depend on input from basolateral amygdala....and vice versa!*

Jonathan D. Wallis & Helen Wills. *Prefrontal Neurons and their Role in Choice Behavior*

3:15-3:30 Break

3:30-4:30 (Invited Lecture) Nicholas J. Mackintosh

Theories of variable associability in conditioning and discrimination learning: Parsimony does not rule.

4:30-5:15 (Invited Presentation) John Furedy

Pavlov's methodological behaviorism as a pre-Socratic melding of differential and experimental psychological aspects of behavioral neuroscience.

5:15-6:00 Free Time

6:00-7:00 Poster Session/Reception

7:00 Banquet/Invited Lecture (Gregory Ball, Johns Hopkins University)

POSTER PRESENTATIONS

Kyle M. Baumbauer, Erin E. Young, and Robin L. Joynes. *INTRATHECAL INJECTIONS OF THE NEUROKININ AGONISTS SUBSTANCE P METHYL ESTER AND NEUROKININ A INDUCE A LEARNING DEFICIT IN SPINAL RATS.*

Department of Psychology, Kent State University.

D.T. Cheng¹; D.C. Knight^{1,3}; C.N. Smith^{1,5}; E.A. Stein^{2,4}; F.J. Helmstetter^{1,2}

Autonomic Fear Responses and Human Amygdala Activity: An Event-Related fMRI Study

1. Univ. of WI-Milwaukee, 2. Medical College of WI, 3. NIMH, Bethesda, MD, USA

4. NIDA-IRP, Baltimore, MD, USA, 5. UCSD, San Diego, CA, USA

Amber Chenoweth, Eun Hye Shin, Christina M. Busuito, Megan Anderson, W. Jeffrey Wilson. *Differentiation of Auditory CS+ and CS- by Rats in a Runway-Based Pavlovian Conditioning Task with Self-Initiated Trials: A Follow-up Study.*

Kent State University and Albion College.

Amy C. Chess¹ & David J. Bucci

KYNURENIC ACID ALTERS APPETITIVE CONDITIONING AND THE ORIENTING RESPONSE TO A VISUAL CUE

University of Vermont, Department of Psychology

(¹ present address: Department of Psychological & Brain Sciences, Dartmouth College)

Kimberly Christian & Richard Thompson

Purkinje Neuron Correlates of Learning

Program in Neuroscience, University of Southern California

K. Cuevas, A. Learmonth, and C. Rovee-Collier

Can Human Infants Form Latent Associations Between Stimuli That Are Absent?

Department of Psychology, Rutgers University, Piscataway, NJ, 08854-8020, U.S.A.

Terri L. Finamore and David C. Riccio

The Effect of Stress on the Forgetting of Stimulus Attributes: A Preliminary Study

Kent State University

S.C. Furtak, T.A. Allen, and T.H. Brown

PERIRHINAL SINGLE-UNIT RESPONSES TO 4 AND 22 KHZ TONES.

Department of Psychology, Yale University, New Haven, CT 06492

V. Hsu and C. Rovee-Collier

Effects of Exposure Duration on Memory Reactivation

Department of Psychology, Rutgers University, Piscataway, NJ, 08854-8020

K. Light, S. Kolata, G. Hale, H. Grossman, D. A. Townsend and L. D. Matzel

Effects of Adaptation to Novelty on General Learning Abilities in Outbred Mice

Department of Psychology, Rutgers University

S. Kolata, K. Light, D. A. Townsend, G. Hale, H. Grossman, and L. D. Matzel

Individual Differences in General Learning Abilities Among Outbred Mice are Predicted by Variations in Working Memory Capacity. Department of Psychology, Rutgers University

D. B. PADLUBNAYA, N. H. PAREKH, and T. H. BROWN

Neurophysiology of Kamin blocking in fear conditioning: dynamical considerations.

Department of Psychology, Yale University, New Haven, CT 06520.

James D. Rowan, Amanda R. Willey, and Julia Moore

Differences in the Acquisition of Runs, Trills, and Perseveration Patterns in Rat Serial-Pattern Learning
Bridgewater College, Bridgewater, VA.

Mark Somanader, Nancy Miller, & Rachel Barr

Auditory information interferes with imitation from television by human infants
Georgetown University

Jaylyn Waddell and Mark E. Bouton.

Effect of Bed Nucleus of the Stria Terminalis Lesions on Aversive Conditioning with Long-Duration Conditional Stimuli. University of Vermont

Daniel C. Werner, Amanda R. Willey, and James D. Rowan. *The Effects of Pattern Dispersal on Acquisition of Alternation, Runs, and Perseveration Patterns on a Rat Serial-Pattern Learning Task.* Bridgewater College, Bridgewater, VA.

Amanda R. Willey, Daniel C. Werner and James D. Rowan

The Effects of Phrasing on Acquisition of a Double Alternation Pattern in Rats.
Bridgewater College, Bridgewater, VA.

Erin E. Young, Kyle M. Baumbauer, and Robin L. Joynes

The Neonatal Injury Induced Learning Deficit Does Not Transfer to the Contralateral Hindlimb