

Spring Quarter 2008

NS 211C, Literature based seminar course

Topic: Imagery in Associative Learning

Description: We will review the literature on the role of associatively-mediated event representation (imagery) in animal conditioning. We will cover evidence from studies of behavior and of systems neuroscience.

Meeting time and place: Wednesdays, 3:00-5:00PM, Gonda 3303.

Grading: Class has a 2-unit value, graded pass/not pass, mostly based on attendance and presentation.

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April 2, 2008

Introduction and assignment of journal articles

April 9, 2008

Higher-order conditioning and the US representation

Rescorla, R. A. (1979). Aspects of the reinforcer learned in second-order Pavlovian conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, 5, 79-95.

Winterbauer, N. E., & Balleine, B. W. (2005). Motivational control of second-order conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, 31, 334-340.

April 16, 2008

Mediated Conditioning I

Holland, P. C. (1981). Acquisition of representation-mediated conditioned food aversions. *Learning and Motivation*, 12, 1-18.

Holland, P. C. (1990). Event representations in Pavlovian conditioning: Image and action. *Cognition*, 37, 105-131.

April 23, 2008

Mediated Conditioning II

Hall, G., Mitchell, C., Graham, S., & Lavis, Y. (2003). Acquired equivalence and distinctiveness in human discrimination learning: Evidence for associative mediation. *Journal of Experimental Psychology: General*, 132, 266-276.

Hall, G. (1996). Learning about associatively activated stimulus representations: Implications for acquired equivalence and perceptual learning. *Animal Learning & Behavior*, 24, 233-255.

April 30, 2008

Cancelled for Psychology Colloquium by Marc Hauser

May 7, 2008

Higher-order conditioning and temporal integration

Barnet, R. C., Cole, R. P., & Miller, R. R. (1997). Temporal integration in second-order conditioning and sensory preconditioning. *Animal Learning & Behavior*, *25*, 221-233.

Leising, K. J., Sawa, K., & Blaisdell, A. P. (2007). Temporal integration in Pavlovian appetitive conditioning in rats. *Learning & Behavior*, *35*, 11-18.

May 14, 2008

Higher-order conditioning and spatial integration

Sawa, K., Leising, K. J., & Blaisdell, A. P. (2005). Sensory preconditioning in spatial learning using a touch screen task in pigeons. *Journal of Experimental Psychology: Animal Behavior Processes*, *31*, 368-375.

Chamizo, V. D., Rodrigo, T., & Mackintosh, N. J. (2006). Spatial integration in rats. *Learning & Behavior*, *34*, 348-354.

May 21, 2008

Neural underpinnings of higher-order conditioning I

Setlow, B., Gallagher, M., & Holland, P. C. (2002). The basolateral complex of the amygdala is necessary for acquisition but not expression of CS motivational value in appetitive Pavlovian second-order conditioning. *European Journal of Neuroscience*, *15*, 1841-1853.

Talk, A. C., Gandhi, C. C., & Matzel, L. D. (2002). Hippocampal function during behaviorally silent associative learning: Dissociation of memory storage and expression. *Hippocampus*, *12*, 648-656.

May 28, 2008

Neural underpinnings of higher-order conditioning II

Gewirtz, J. C., & Davis, M. (2000). Using Pavlovian higher-order conditioning paradigms to investigate the neural substrates of emotional learning and memory. *Learning & Memory*, *7*, 257-266.

Dwyer, D. M., & Killcross, S. (2006). Lesions of the basolateral amygdala disrupt conditioning based on the retrieved representations of motivationally significant events. *The Journal of Neuroscience*, *26*, 8305-8309.

June 4, 2008

Connections between higher-order associations and imagery

Dadds, M. R., Bovbjerg, D. H., Redd, W. H., & Cutmore, T. R. H. (1997). Imagery in human classical conditioning. *Psychological Bulletin*, *122*, 89-103.

Pickens, C. L., & Holland, P. C. (2004). Conditioning and Cognition. *Neuroscience and Biobehavioral Reviews*, *28*, 651-661.