

III. CLASSICAL CONDITIONING A. Watson and Little Albert

- Operant conditioning concerns freely emitted or voluntary behavior and the environmental conditions (Sd & Sr) that control it.
 - J.B. Watson also showed other kinds of behavior that is under environmental control.
 - Gave 11 month-old "Little Albert" a white rat to play with to which he showed no fear.
 - While Albert was watching the rat, Watson struck a steel bar with a hammer which startled and scared Albert who started to cried.
 - This pairing of the rat and a scary, startling sound was continued. After 7 pairings, every time Albert saw the rat, he started to cry!

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- Other physiological (bodily) responses which have become associated with neutral objects.
 - Hospital (neutral object) → sick feeling (physiological response)
 - Snakes (neutral object) → fear (physiological response)
 - Smell of fresh baked cookies (neutral object) → feeling loved (physiological response)
- This is classical conditioning: The environmental control of physiological responses or reflexes.

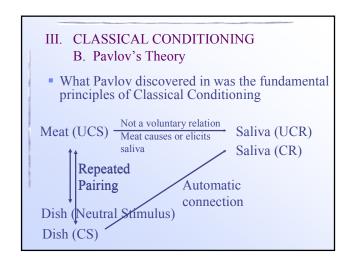
III. CLASSICAL CONDITIONING B. Pavlov's Theory

- Ivan Pavlov was a medical researcher in Russia at the turn of the century.
 - He studied digestion and won a Nobel prize
 - He was exploring the function of saliva in digestion.
 - He discovered that the dog would salivated when seeing the dish, before any food was available.



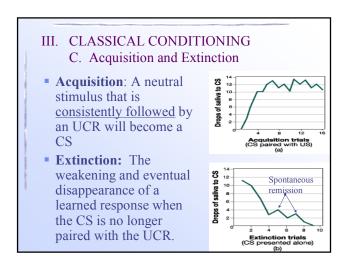
Harness and fistula (mouth tube) help keep dog in a consistent position and gather uncontaminated saliva samples.

The drum recorded when & how much saliva the dog produced.



III. CLASSICAL CONDITIONING B. Pavlov's Theory

- Definition of terms:
 - Unconditioned Stimulus UCS: A stimulus that elicits a reflexive response in the absence of learning.
 - Conditioned Stimulus CS: An initially neutral stimulus that comes to elicit a CR after being associated with an UCR.
 - Unconditioned Response UCR: A reflexive response elicited by a stimulus in the absence of learning.
 - Conditioned Response CR: A response elicited by a conditioned stimulus. Occurs after the CS is associated with an UCS.



III. CLASSICAL CONDITIONING D. Conditions of Classical Conditioning CS plays a signaling function in classical conditioning. If CS doesn't signal (predict) UCS, no classical conditioning CS and UCS presented simultaneously, no CC. Seabiscuit! UCS comes before CS, but CS lasts longer, no CC. CS fails to statistically predict UCS, no CC.

III. CLASSICAL CONDITIONING

E. Generalization and Discrimination

- Classical, like operant conditioning, is subject to generalization and discrimination.
 - Stimulus Generalization: After conditioning, the tendency to respond to a stimulus that resembles one involved in the original conditioning.
 - A dog trained to salivate (CR) to one tone (CS), will salivate to a similar one.
 - Stimulus Discrimination: The tendency to respond differently to two or more similar stimuli.
 - A dog trained to salivate (CR) to one tone (CS), will not salivate to a dissimilar one.