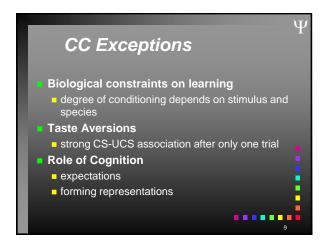
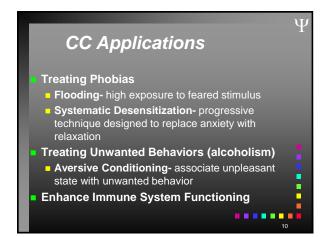


## CC: Basic Principles Acquisition- gradual strengthening of a CR forward conditioning (delayed and trace)- CS precedes UCS simultaneous conditioning- CS and UCS occur at same time backward conditioning- UCS preceded CS Extinction- weakening of a CR by presenting CS without UCS Spontaneous recovery- reappearance of an extinguished CR after a pause Generalization- learning to respond to stimuli similar to CS child learns to fear wasps then hornets and bumble bees Discrimination- learning to distinguish stimuli similar to CS child learns to discriminate friendly dogs from mean dogs





## Operant Conditioning (OC) Operant Conditioning: Learning by associating a behavior with its consequences Reinforcement- strengthens behavior it follows Positive- present positive stimulus Negative- remove or avoid unpleasant stimulus Punishment- weakens behavior it follows Positive- present aversive stimulus Note: neg. reinforcement strengthens behavior, whereas punishment weakens the behavior it follows

## Types of Reinforcement Primary- food, water, sex Conditioned- money, status, praise Continuous- use to develop new behaviors Partial- use to maintain behaviors (see reinforcement schedules)

## Using operant conditioning to solve "real" problems Shaping- reward behavior as it successfully approximates desired behavior teaching infant to say "Mama" Chaining- reward behavior after completing a sequence of responses training dolphins to jump through hoops

