Perception (information acquisition)

&

Attention ('spotlight' of perception?)



Perception In what way may perception be important for your research?

Perception More processing of sensory information

- Visual search: parallel serial
- Cross-modality processing: feature integration theory, texture segregation, gestalt object recognition
- · Search images, priming

Attention

Processing perceived information: attention

What does having an 'attention focus' mean?

What does it imply about behavioral flexibility and how it is limited by neural mechanisms?



Attention

Processing perceived information: attention

What does having an 'attention focus' mean?

Limited capacity to process all incoming sensory information

But what does this really imply? Not entirely parallel information processing; 'suboptimal' choices if perception not considered; brain a significant cost Learning & Memory

How do mechanisms of learning constrain behavioral strategies?

Giurfa & Menzel: bees – look for the different stages of memory and how these were shown

Cheng: rats – limitation on learning & modularity of mind