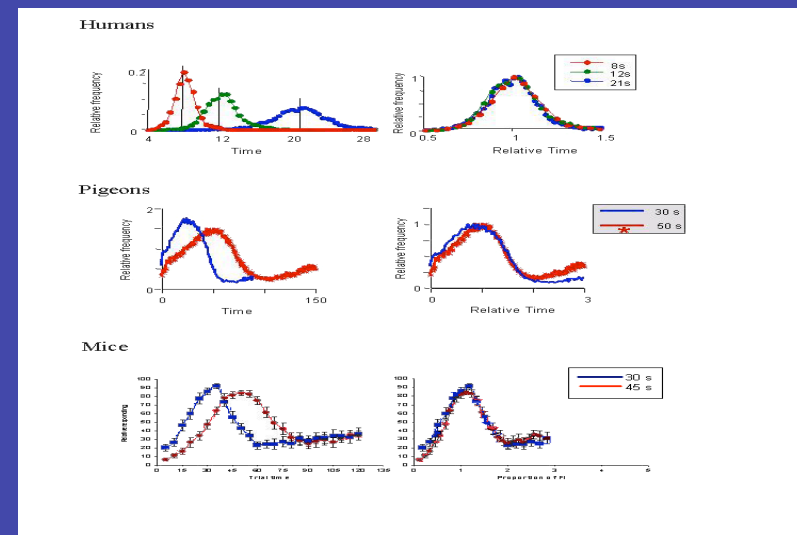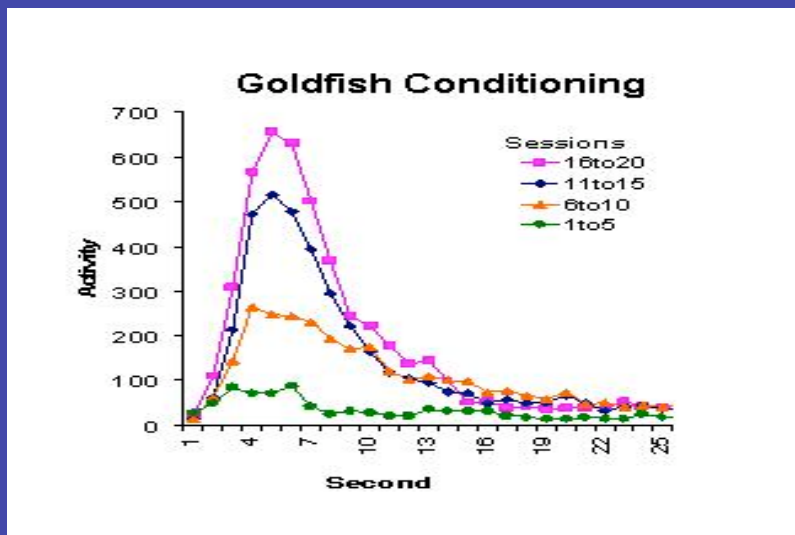# Interval Timing

Episodic Memory

Decision Making

Anticipation (Associative learning)

Mechanism conserved across species?

How is time encoded in the nervous system?
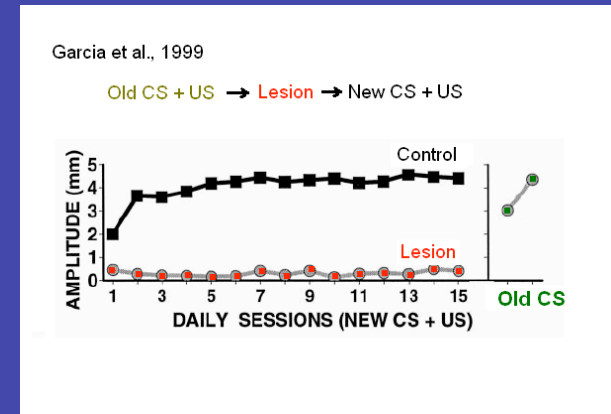
Neurons or Networks?

Traces, Oscillators or Accumulators?

Distributed Learning
Different structures learn at different times

Detection -> *Initial Plasticity* -> *Long-term Change*

	Initial plasticity	--->	Long term
Eyeblink	Cerebellar Cortex	--->	Deep nuclei
Context Fear	Hippocampus	--->	Cortex
CS Fear	dorsal LAd	---->	ventral Lad
Song Learning	NCM	---- >	Song Control

Garcia et al., 1999
Old CS + US → Lesion → New CS + US

How do detection systems enable learning?
Does the initial plasticity enable or instruct long-term change?
How is learning in different locations reassembled for output?