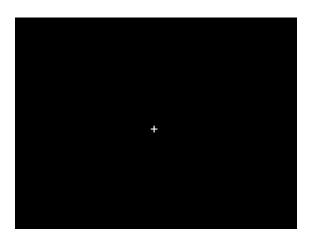


Location-Scene Association Task

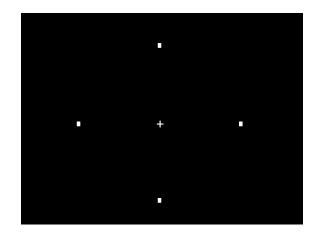
Gaffan (1994)

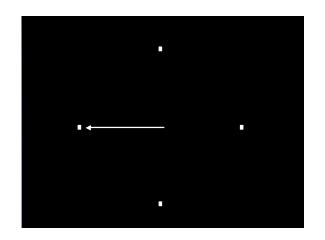
Murray and Wise (1996)

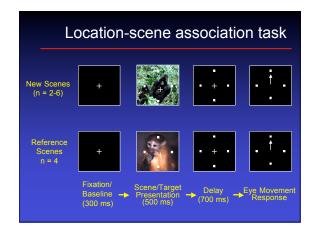
Murray et. al., (1998)





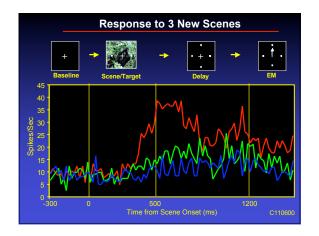


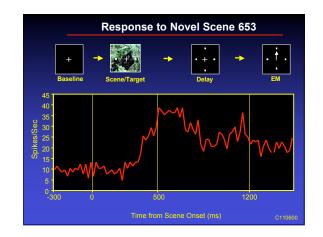


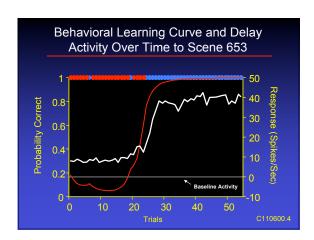


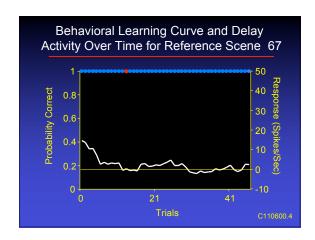
## Working Hypothesis Selective changes in the patterns of activity in medial temporal lobe neurons underlie the formation of new location-scene associations.

Associative Learning Signals in the Hippocampus



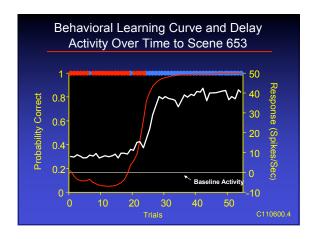




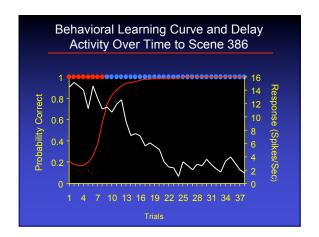


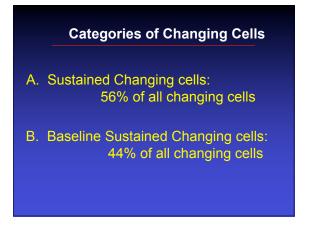
Are There Different Categories of Changing Cells?

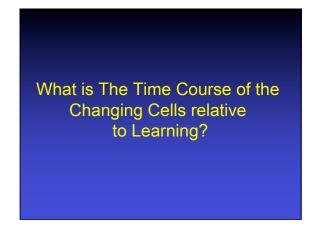
## 2 Categories of Changing Cells A. Sustained Changing cells: 56% of all changing cells B. Baseline Sustained Changing cells: 44% of all changing cells

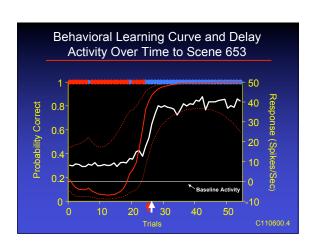


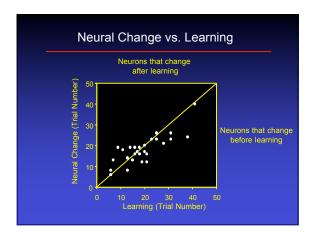
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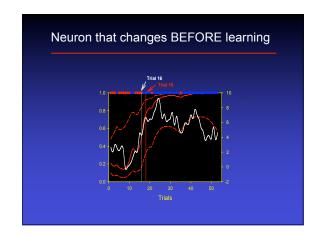




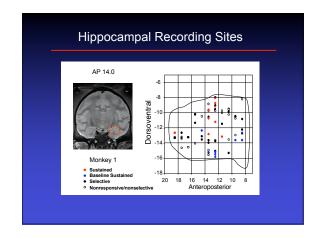








Where are the changing cells located?

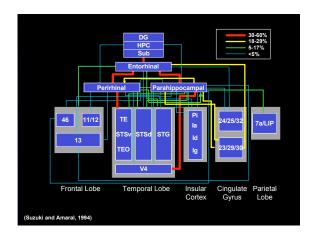


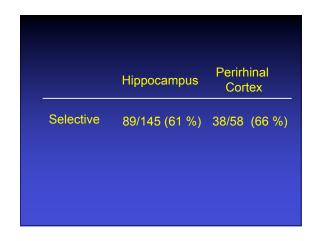
Changing cells in the hippocampus signal new association learning

Hippocampal neurons participate in both the formation and consolidation of new associations

Changing cells are observed throughout the hippocampus

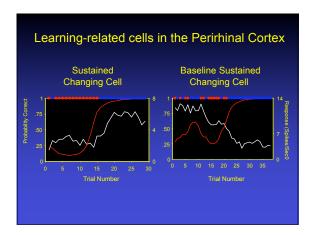
What about the Perirhinal Cortex?





Are there changing cells in the perirhinal cortex?

	Hippocampus	Perirhinal Cortex
Changing Cells	25/89 (28%)	7/38 (18%)



What is The Time Course of the Changing Cells relative to Learning?

