

Medial Entorhinal Cortex Lesions and Spatial Memory Retrieval in Rats

Jena B. Hales

Postdoctoral Fellow

Clark Laboratory, UCSD

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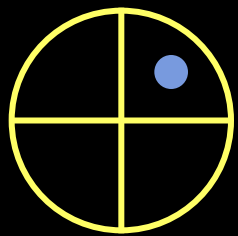
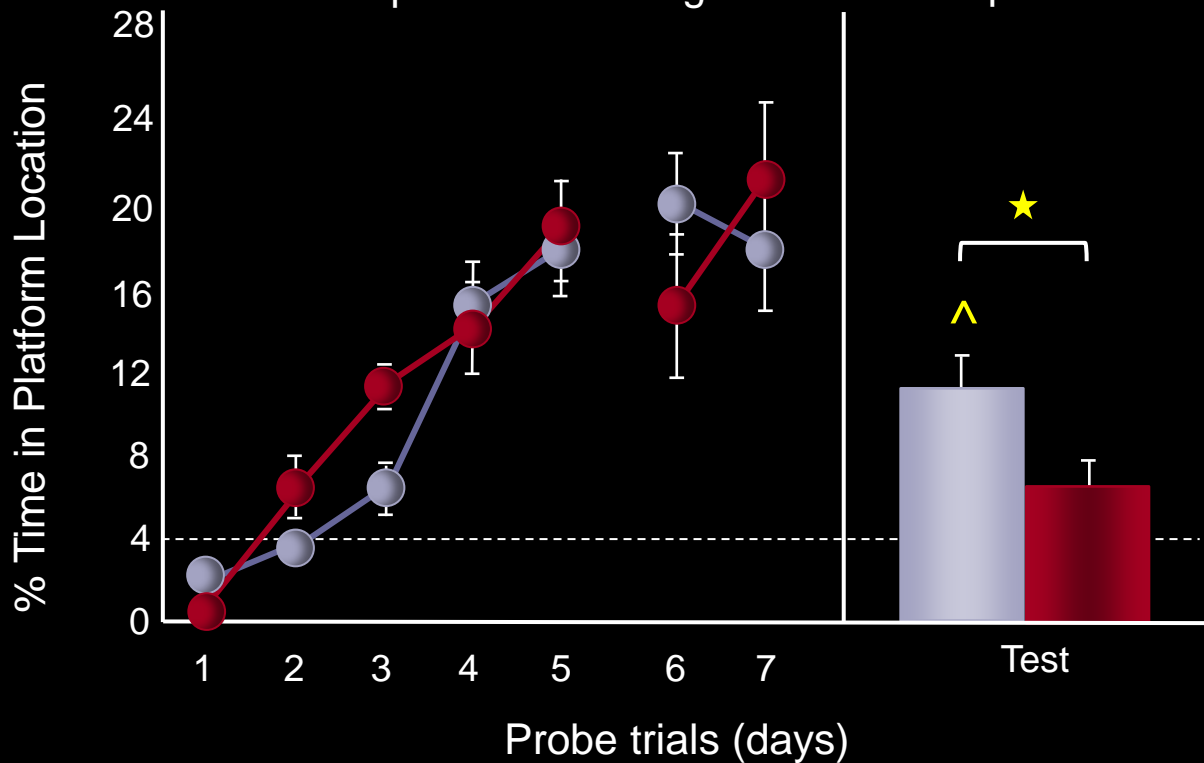
● CON (n = 8)

● MEC (n = 8)



Pre-operative Training

Post-operative Test



★ $p < 0.05$

▲ above chance, $p < 0.01$

Conclusions

- MEC rats were impaired at remembering the learned platform location relative to CON rats
- This impairment is similar to what is seen following hippocampal lesions
- These results suggest that the medial entorhinal cortex is required for the retrieval of hippocampus-dependent spatial memory