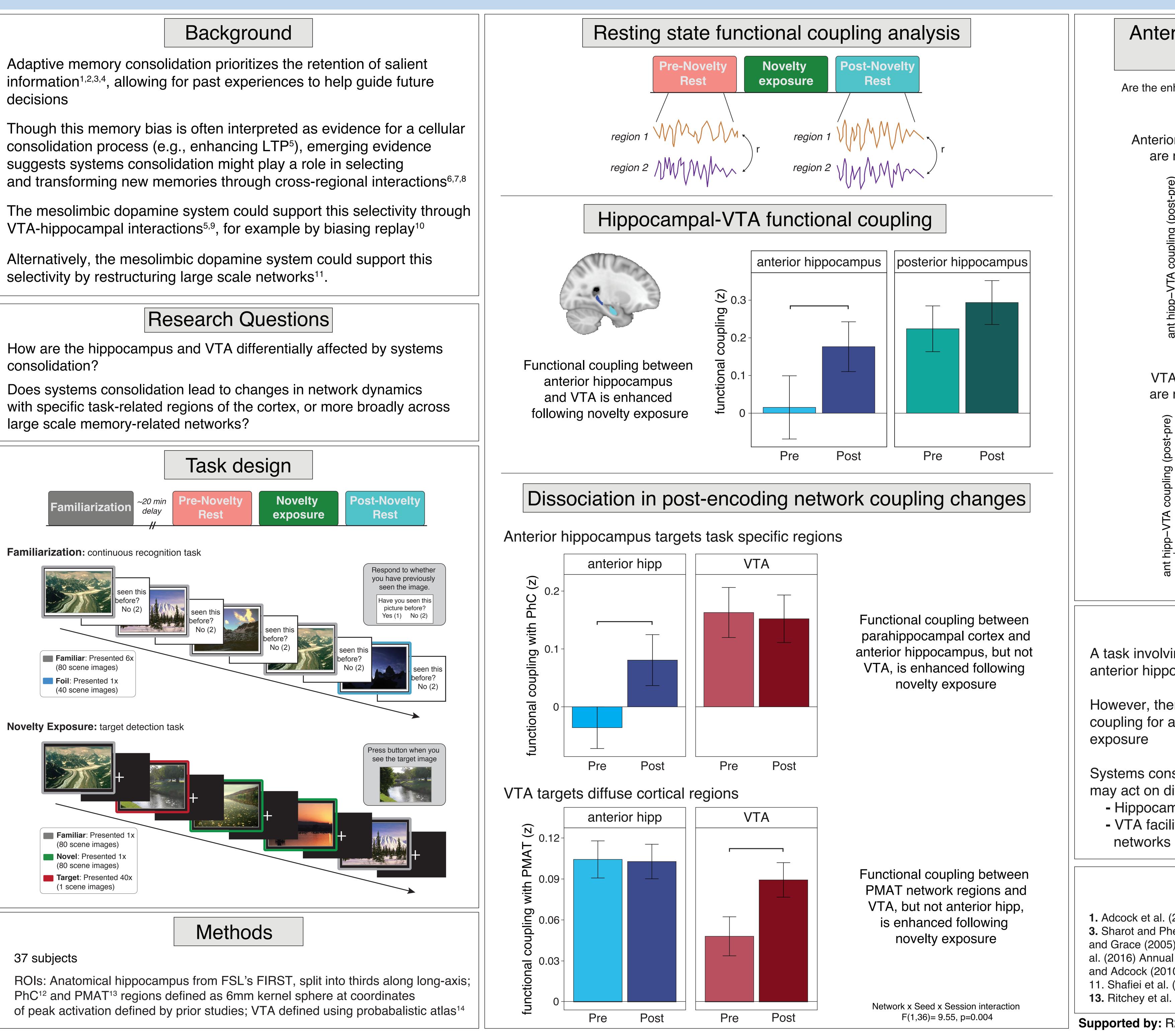
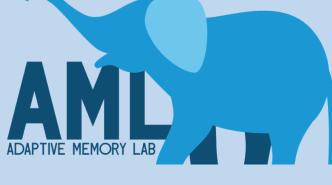
Dissociation in the specificity of functional networks centered on hippocampus and VTA following exposure to novelty



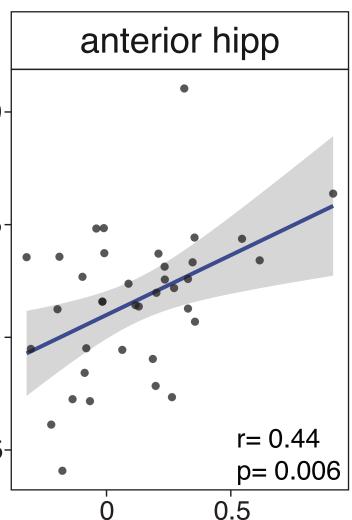


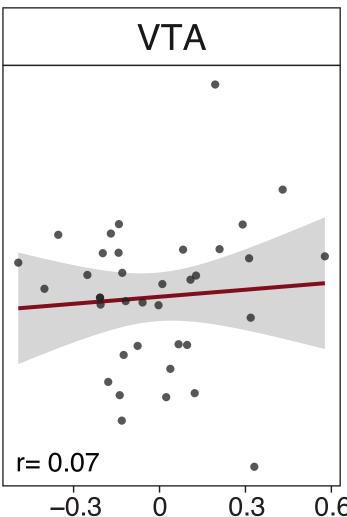


Anterior hipp-VTA coupling modulates network enhancements

Are the enhancements in coupling in these networks related to plasticity in coupling between hippocampus and VTA?

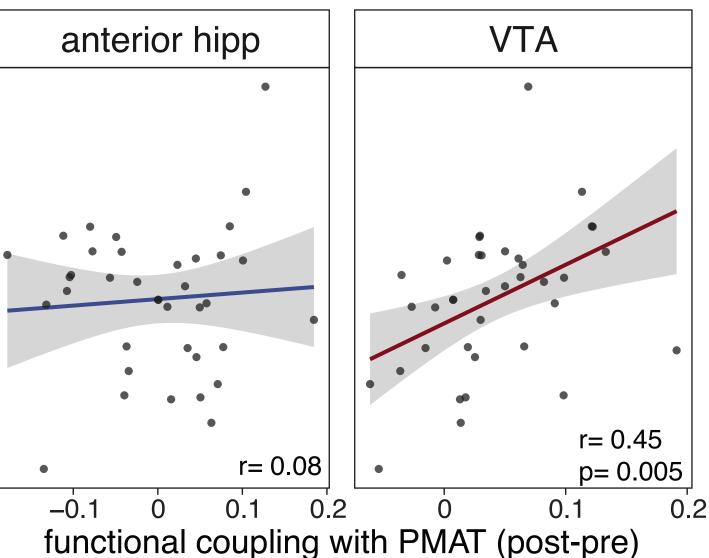
Anterior hipp-PhC post-encoding coupling enhancements are related to increased anterior hipp-VTA coupling





functional coupling with PhC (post-pre)

VTA-PMAT post-encoding coupling enhancements are related to increased anterior hipp-VTA coupling



Summary

A task involving exposure to novelty leads to enhancements in anterior hippocampal-VTA functional coupling

However, there is a dissociation in the regions showing enhanced coupling for anterior hippocampus and VTA following novelty

Systems consolidation mechanisms for the hippocampus and VTA may act on different spatial scales:

- Hippocampus targets reactivation of specific memory traces - VTA facilitates information processing across large-scale

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