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Holistic versus feature-based binding in the medial temporal lobe

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Title: Holistic versus feature-based binding in the medial temporal lobe

Abbreviated Title: Holistic versus feature-based binding

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Highlights:

- We used multivoxel pattern analysis (MVPA) to investigate how feature combinations that support episodic/source memory might be represented, contrasting two possibilities, feature-based versus holistic.
- Hippocampal pattern-separation should yield holistic representations, but some argue that pattern-separation-like binding can occur in cortex.
- We found evidence for holistic representation in the parahippocampal cortex, consistent with theories that posit that pattern-separation-like binding mechanisms are not unique to the hippocampus.

Keywords:

- mechanisms of binding; pattern-separation; representation; source memory

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