

# **Distinct Connectivity Patterns of Anterior and Posterior Hippocampus**

## Introduction

Memory allows us to remember both specific details about events and link across events to form generalized knowledge

Hippocampus supports both specificity and generalization, but there may be functional differences within hippocampus<sup>1,2,3</sup>

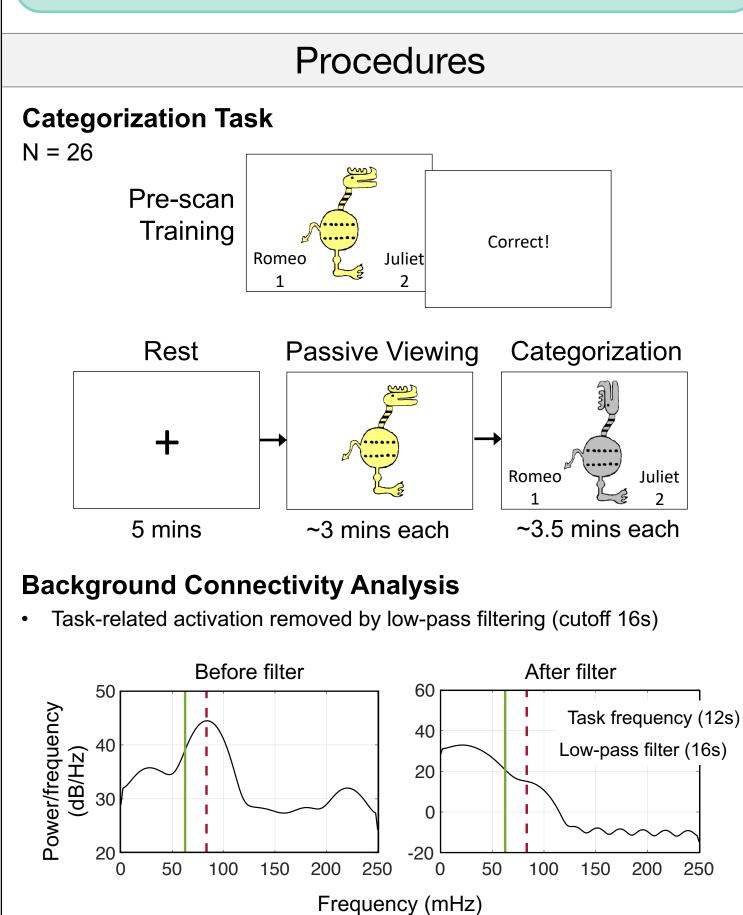
- Specificity  $\rightarrow$  posterior hippocampus
- Generalization  $\rightarrow$  anterior hippocampus

Cortical regions also differentially contribute to memory<sup>4,5,6,7</sup>

- Specificity → lateral prefrontal, lateral parietal
- Generalization  $\rightarrow$  medial prefrontal, lateral temporal

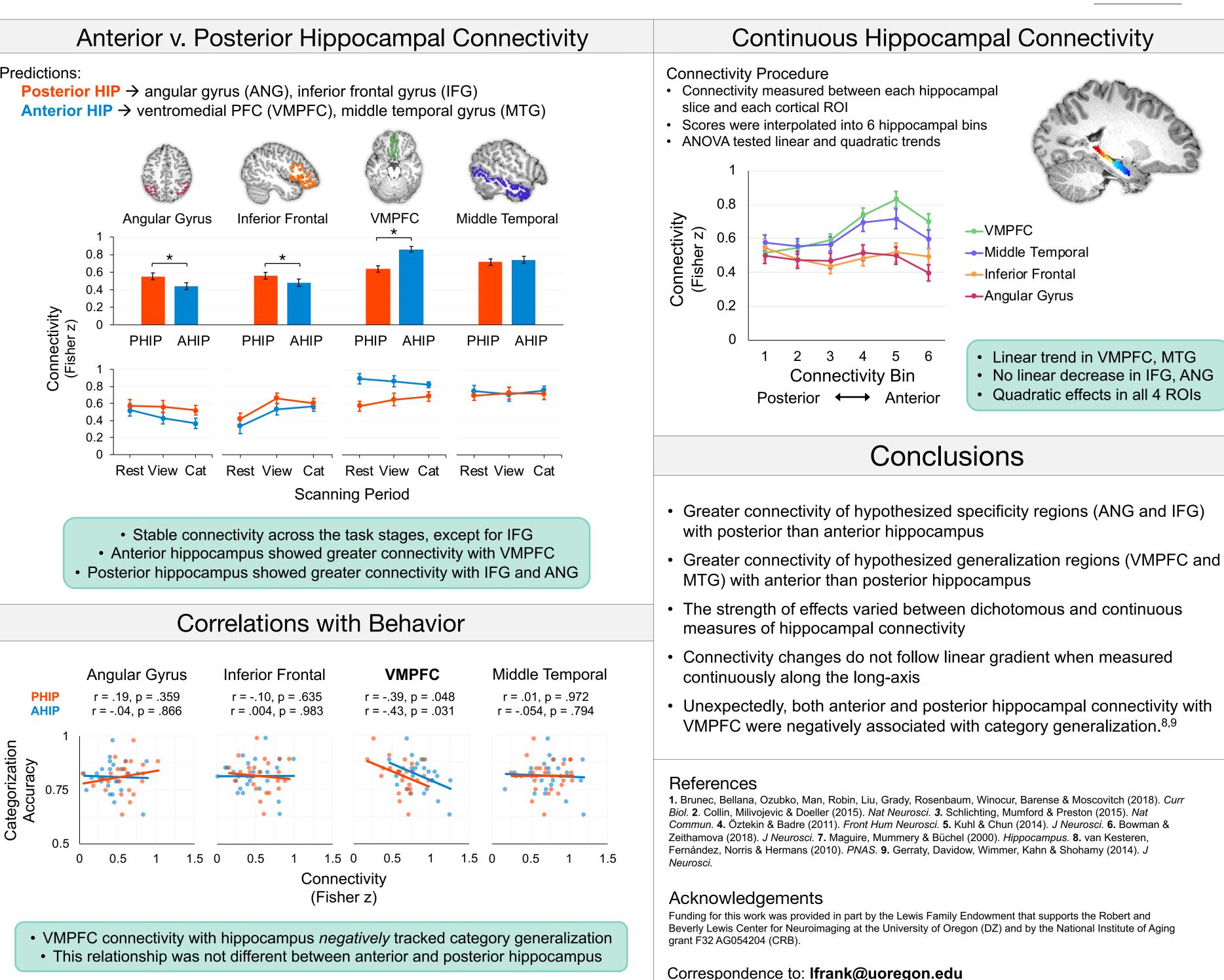
Are anterior and posterior hippocampus differentially connected to cortical generalization v. specificity regions?

Does anterior and posterior hippocampal connectivity with cortical memory regions differentially track category generalization?



Example LOC signal

**Predictions:** 



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