



PSTR236.14 / VV17 - Prefrontal ensemble dynamics in spatial working memory in marmosets

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Disclosures

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Abstract

Neurons in the lateral prefrontal cortex (IPFC) are known to play a role in spatial working memory. Single unit recordings from the IPFC of marmosets during a delayed-match-to-location task confirmed that like Macaques, marmoset IPFC neurons exhibit directional tuning, which correlated with task performance (Wong et al., 2022). Not much, however, is known about population coding in the IPFC of marmosets. Here, we re-analyzed data from Wong et al. (2022), focusing on the coding of spatial information in neuronal ensembles using support vector machines, using 2 different approaches: Best unit and Optimized (Leavitt et al., 2017). In the Best-unit approach, we first sorted neurons based on their decoding accuracy. We then calculated decoding accuracy of top-N neuron ensembles at each size. In the Optimized approach, we identified the N+1 neurons that together with the top neuron, achieved the best performance. As previously reported in macaques, the Optimized approach significantly out-performed the Best-unit approach; and ensembles of size 5-15 performed superior to full ensembles. We next analyzed the ensemble performance separately for broad-spiking and narrow-spiking neurons (BSNs and NSNs). Although BSNs dominated the ensembles, the NSNs contribute substantially to the decoding, especially in the Optimized ensembles, indicating a significant role of interneurons in spatial coding. Analysis of signal and noise correlations revealed a population of non-tuned neurons that were present in Optimized but not in the Best-unit ensembles, and 80-100 % of these exhibited significant noise correlations with tuned neurons. This observation supports a role of noise correlations in enhancing spatial coding. Finally, we observed that the average inter-unit distance for a 10-neuron ensemble was significantly shorter than the average inter-unit distance among the population. This indicates colocalization of neurons that play key roles in spatial coding in IPFC. Our results provide the first evidence that population-level coding properties in the IPFC can be generalized across primate species. References Leavitt ML, Pieper F, Sachs AL, Martinez-Trujillo JC (2017) PNAS 114:E2494-E2503. Wong RK, Selvarajayagam J, Johnston KD, Everling S (2022) Cerebral Cortex. bhac289.

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