



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

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VISTA, York university

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Prefrontal ensemble dynamics in spatial working memory in marmosets.

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PSTR236.14

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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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web activity project an image on the board remind the students not to turn around first or show the student at the front a picture the student who can see the picture describes the picture in detail to their partner the class using the target language no

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web the drawing version is usually known as a picture dictation but for this language point the same thing can be done with cut out or 3d shapes bent pipe cleaners fuzzy felt playdoh lego etc self created picture differences you can also give students a scene and tell them

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web this picture dictation can be used to help students practice describing and prepositions of place procedure divide the students into pairs have each pair sit back to back give one student a picture and the other student a piece of paper the student with the picture then describes it to their partner

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web get students to colour the pictures in afterwards as a colour dictation for example colour the roof of the house green colour the door of the house red or get students to label different objects by writing the name of the object underneath it such as house bird etc

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web for example in the picture there is a house with two windows and there is a car with follow up drawing dictation activities below you will explore activities that are wonderful to conclude a drawing dictation activity describe the picture after the drawing dictation activity

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web in particular they identified conditionals negation prepositions and word order as specific areas of difficulty this strategy gives an example of how to teach the language of position and shape in an interactive task that requires both listening and speaking procedure

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