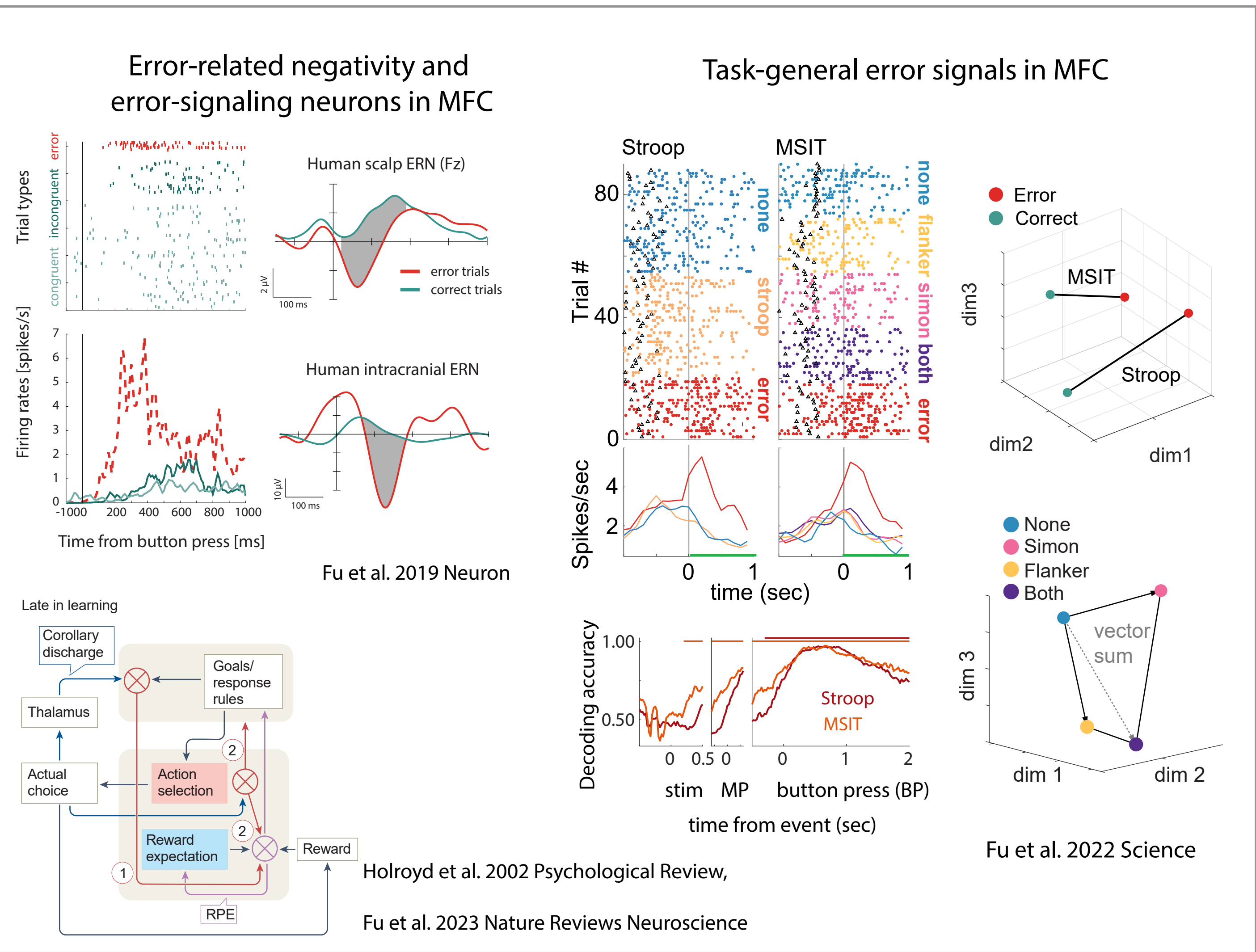


# Relationship between action outcomes and reward outcomes in the human medial frontal cortical neurons

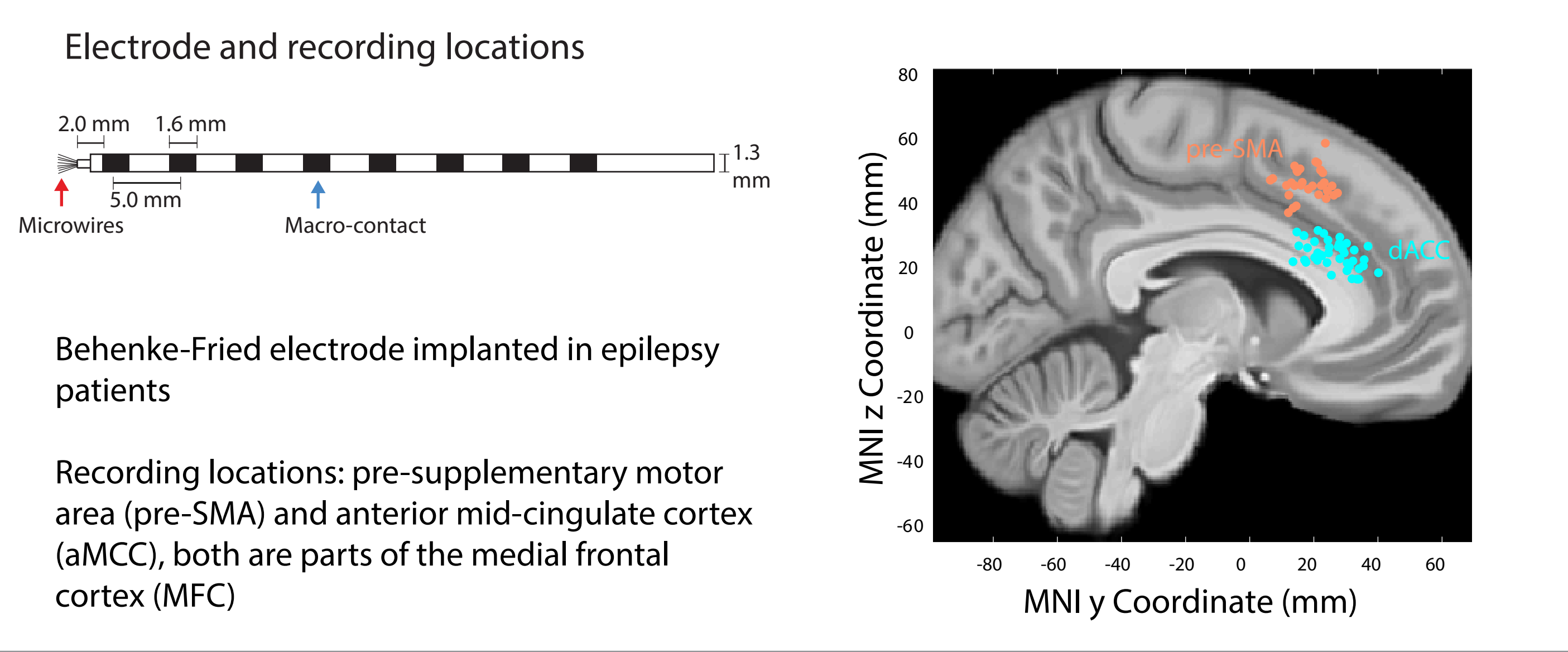
Zhongzheng Fu<sup>1,2,4</sup>, Vincent Man<sup>2</sup>, Chrystal M. Reed<sup>5</sup>, Jeffrey M. Chung<sup>5</sup>, Adam N. Mamelak<sup>4</sup>, John P. O'Doherty<sup>2</sup>, Ueli Rutishauser<sup>3,4,5,6</sup>

1. Neurological Surgery, UT Southwestern Medical Center 2. Humanities and Social Sciences 3. Biology and Biological Engineering, Caltech 4. Neurosurgery, 5. Neurology, 6. Center for Neural Science and Medicine, Cedars-Sinai Medical Center

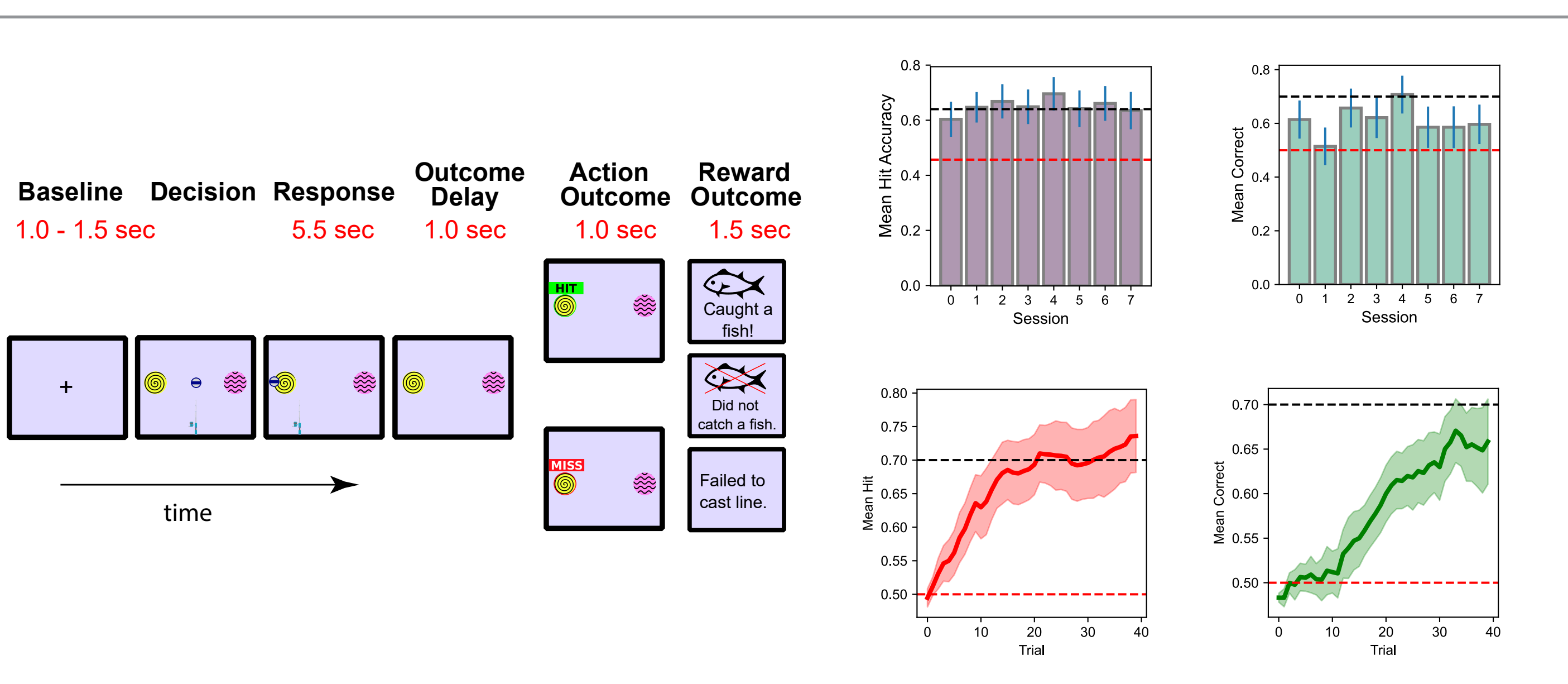
## Background



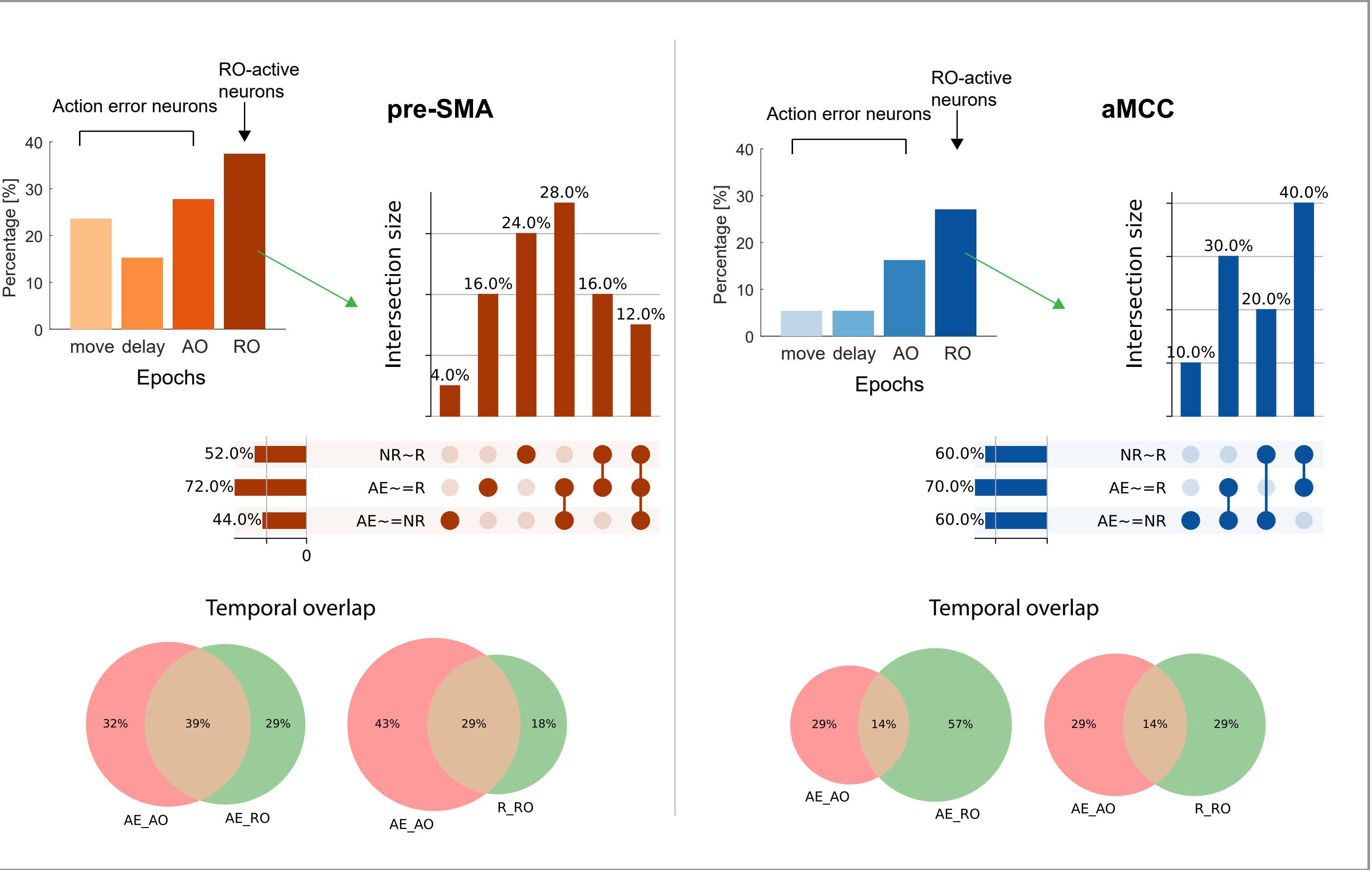
## Intracranial recordings



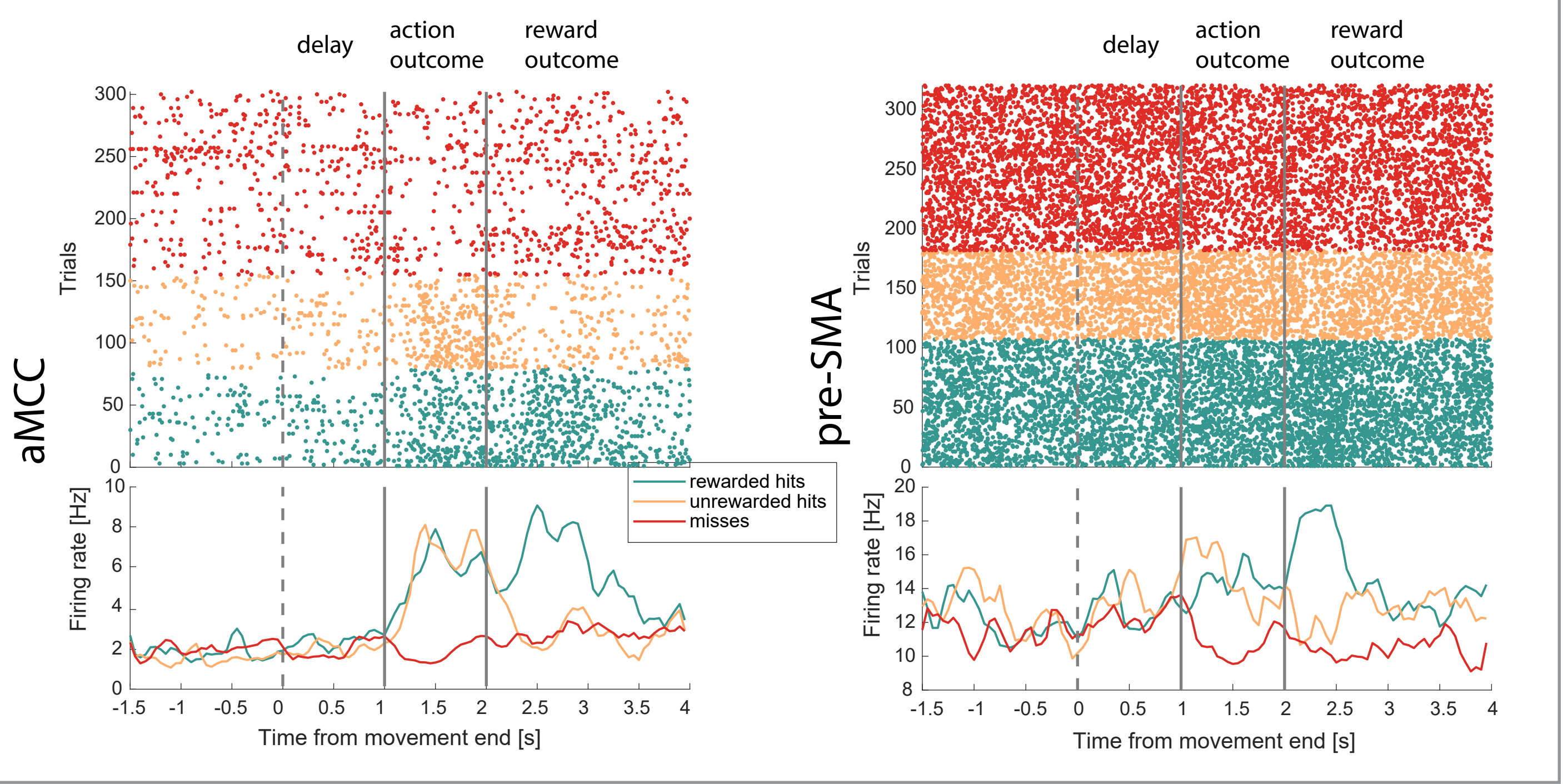
## Task and behavior



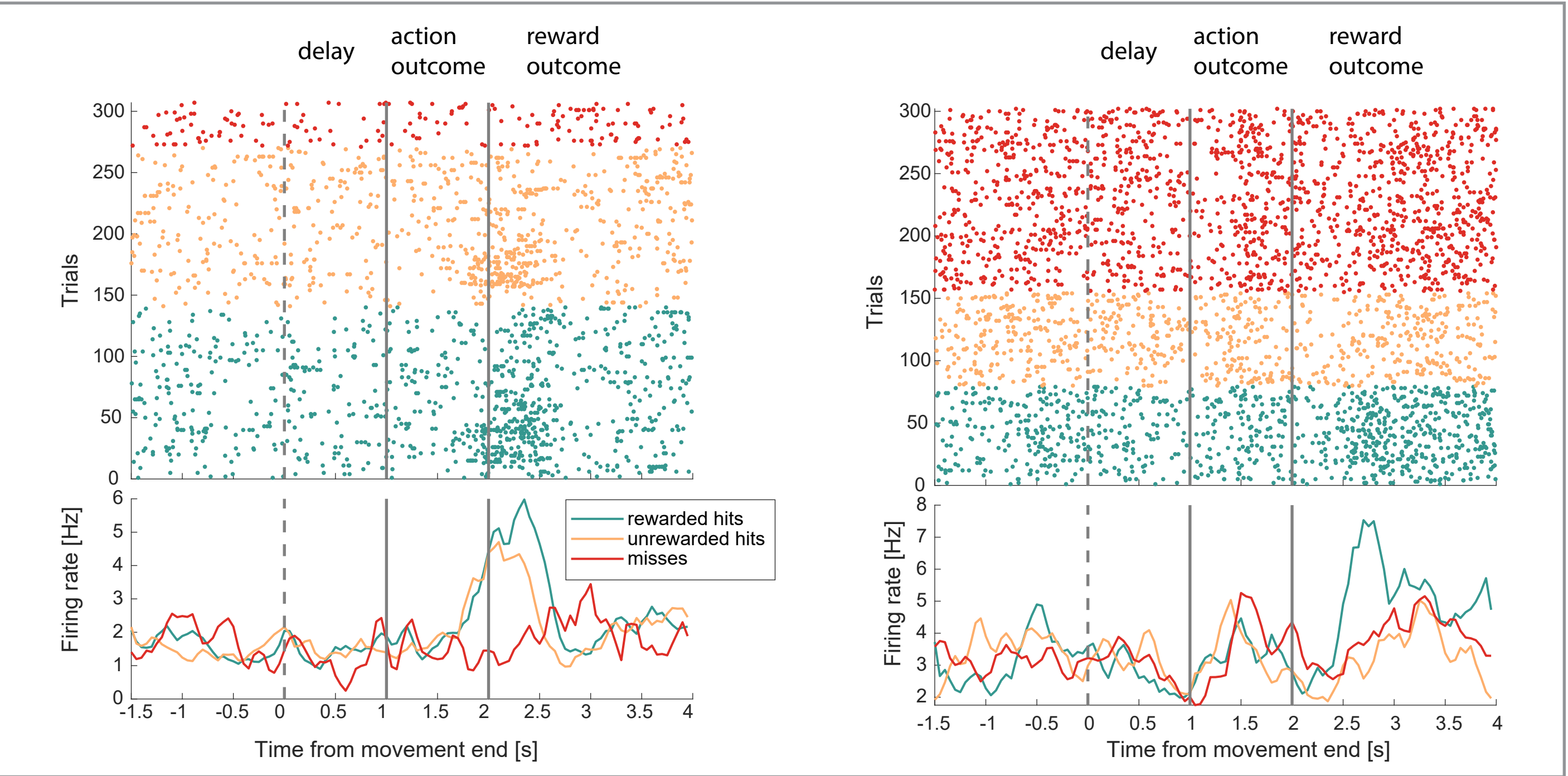
## Univariate analyses



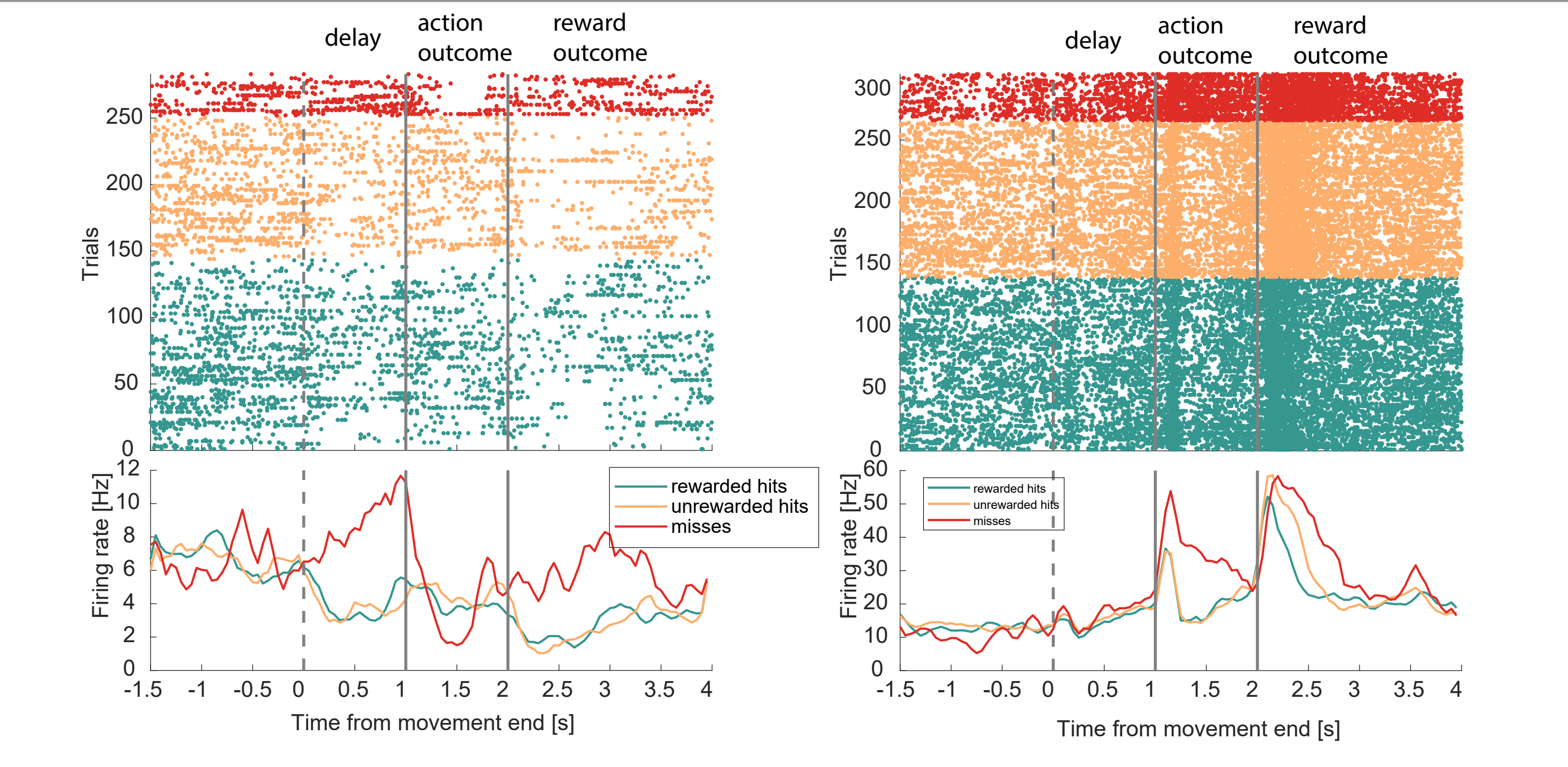
## Example reward expectation neurons



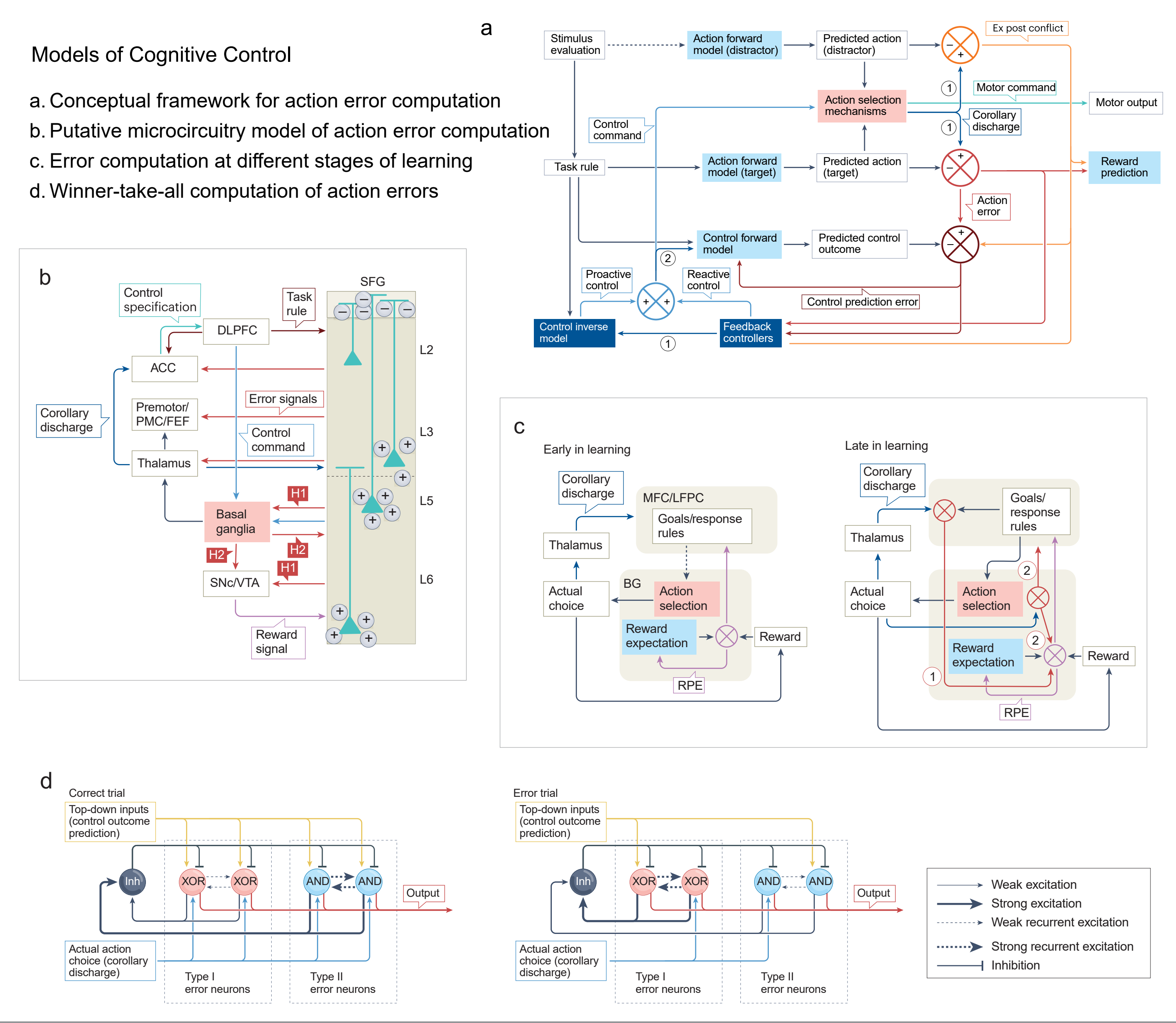
## Example reward outcome neurons



## Example action error neurons



## Models



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