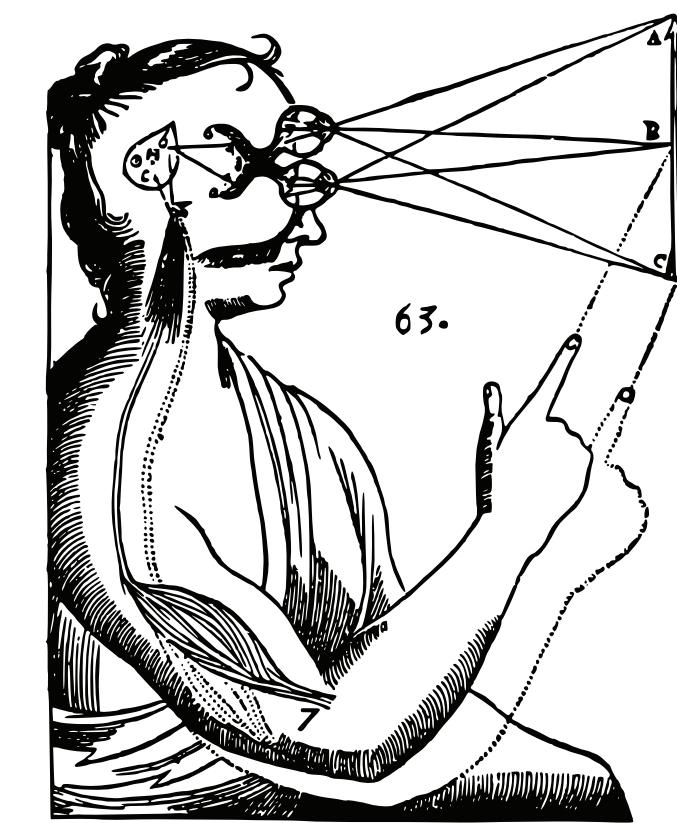




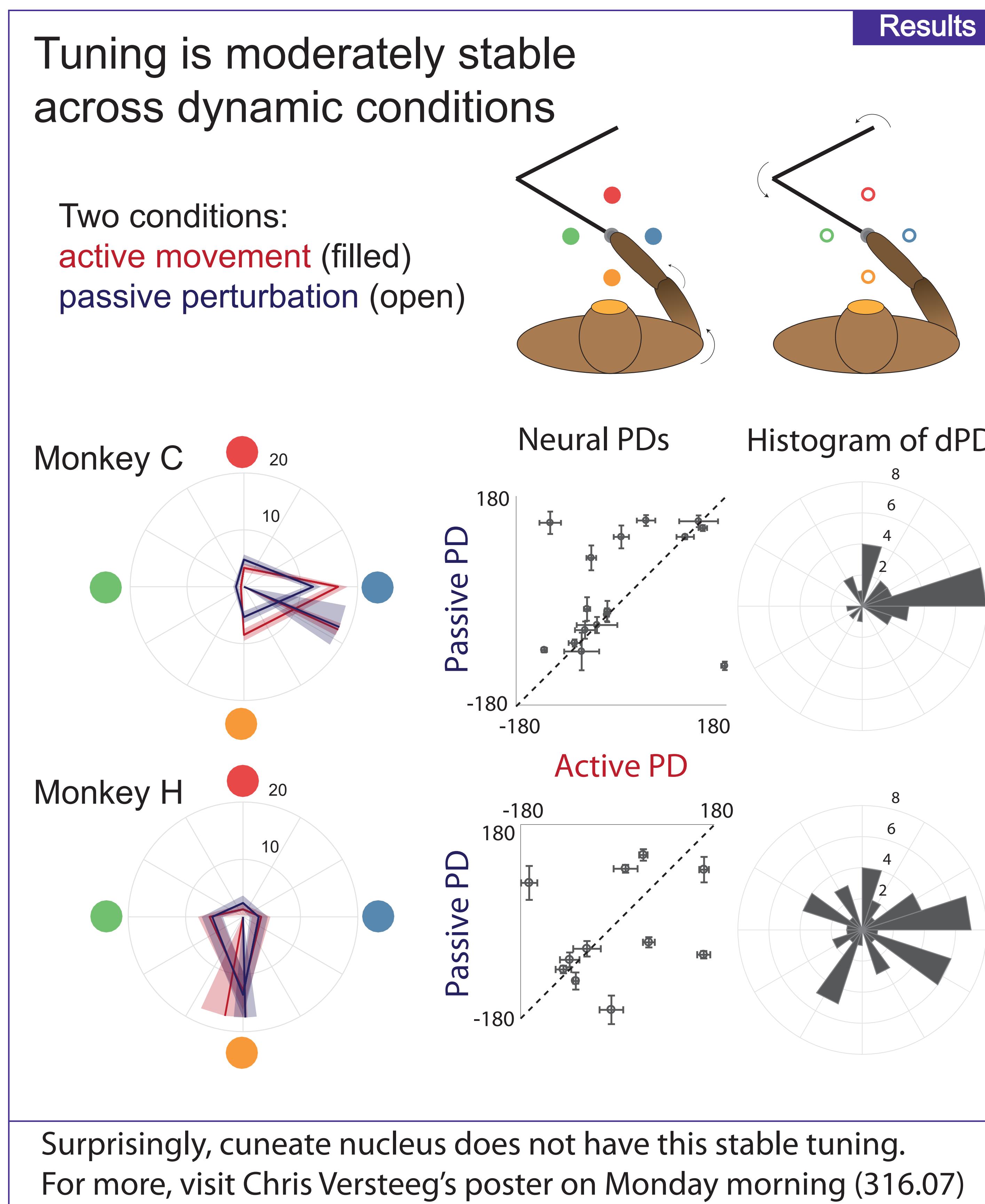
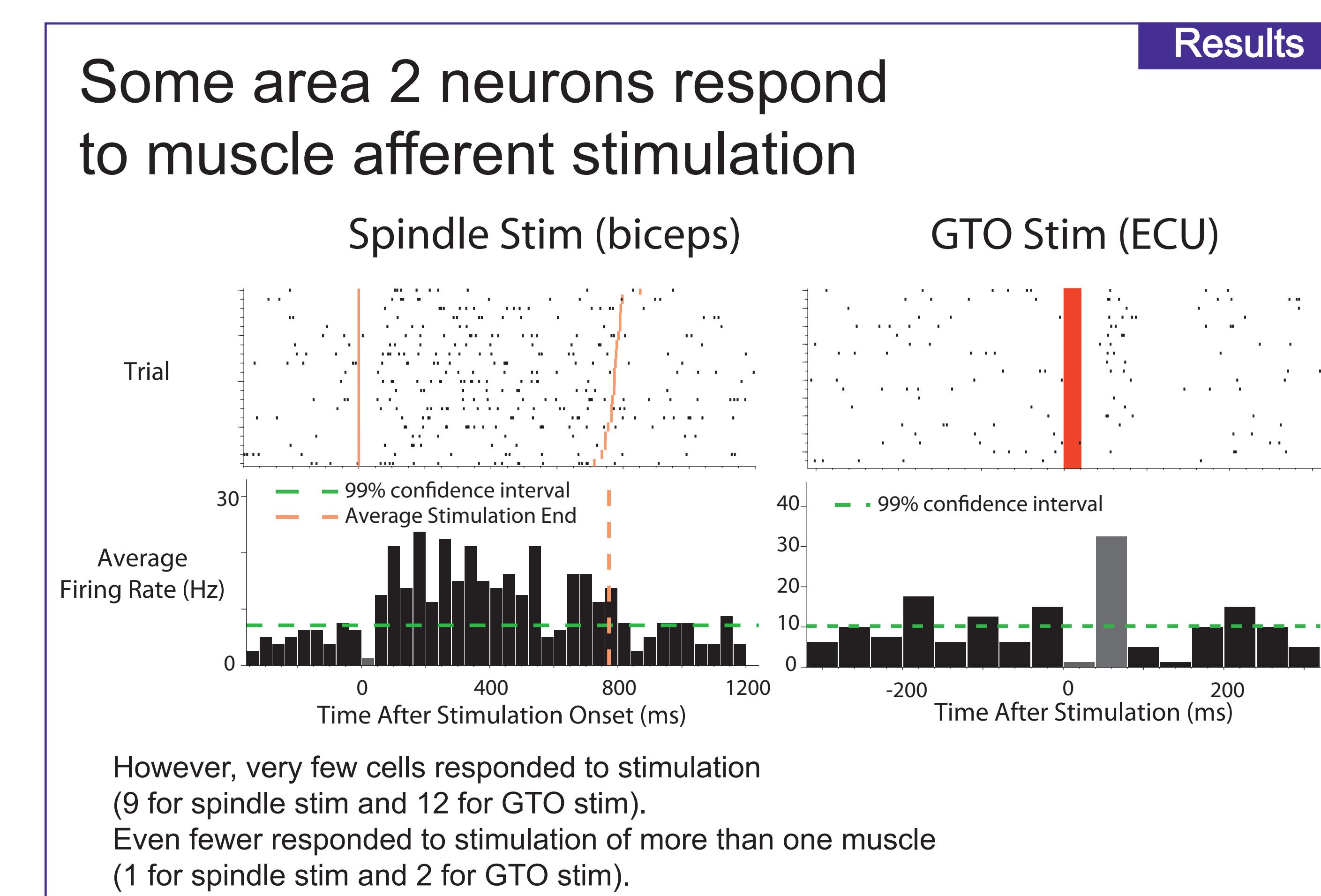
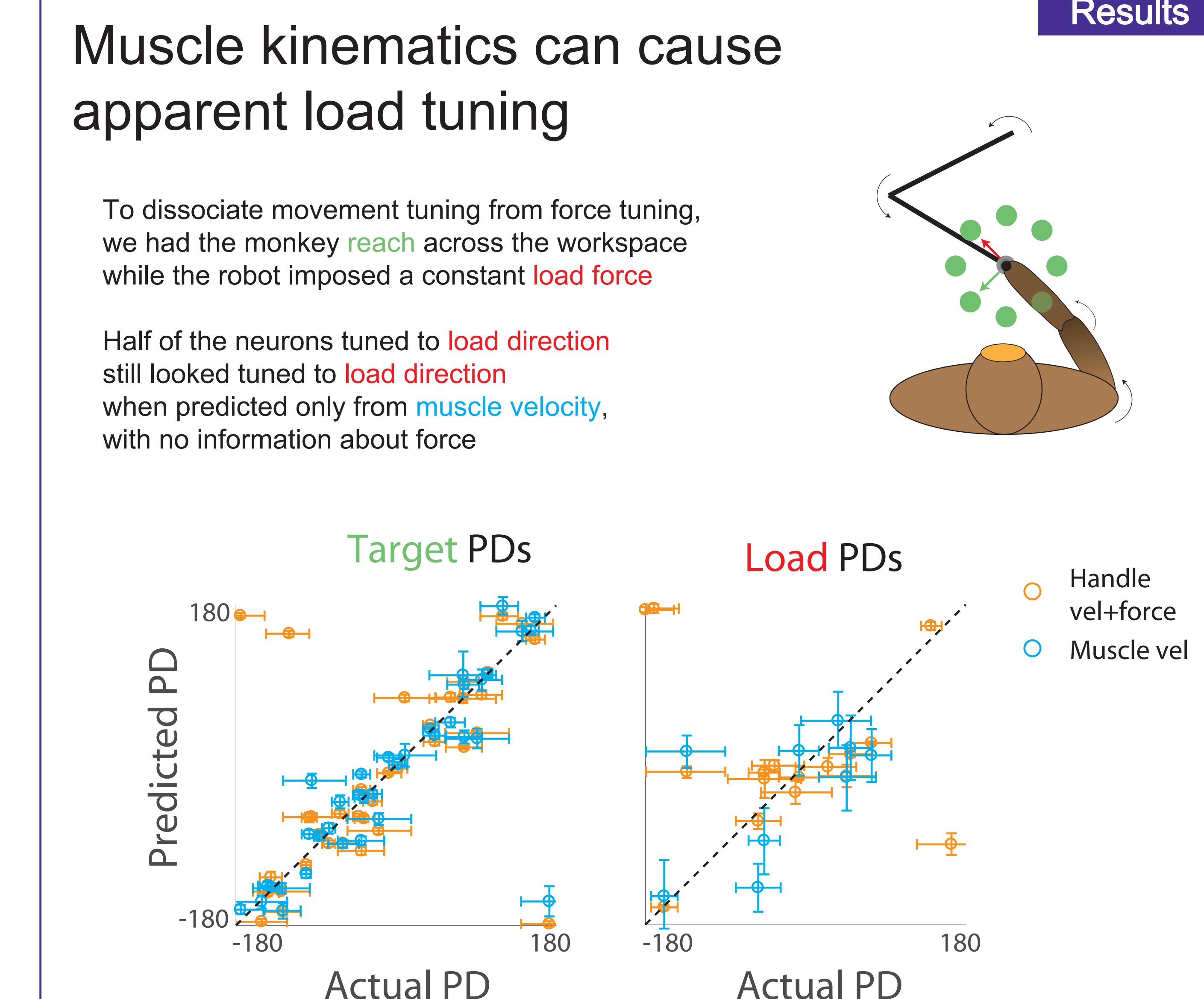
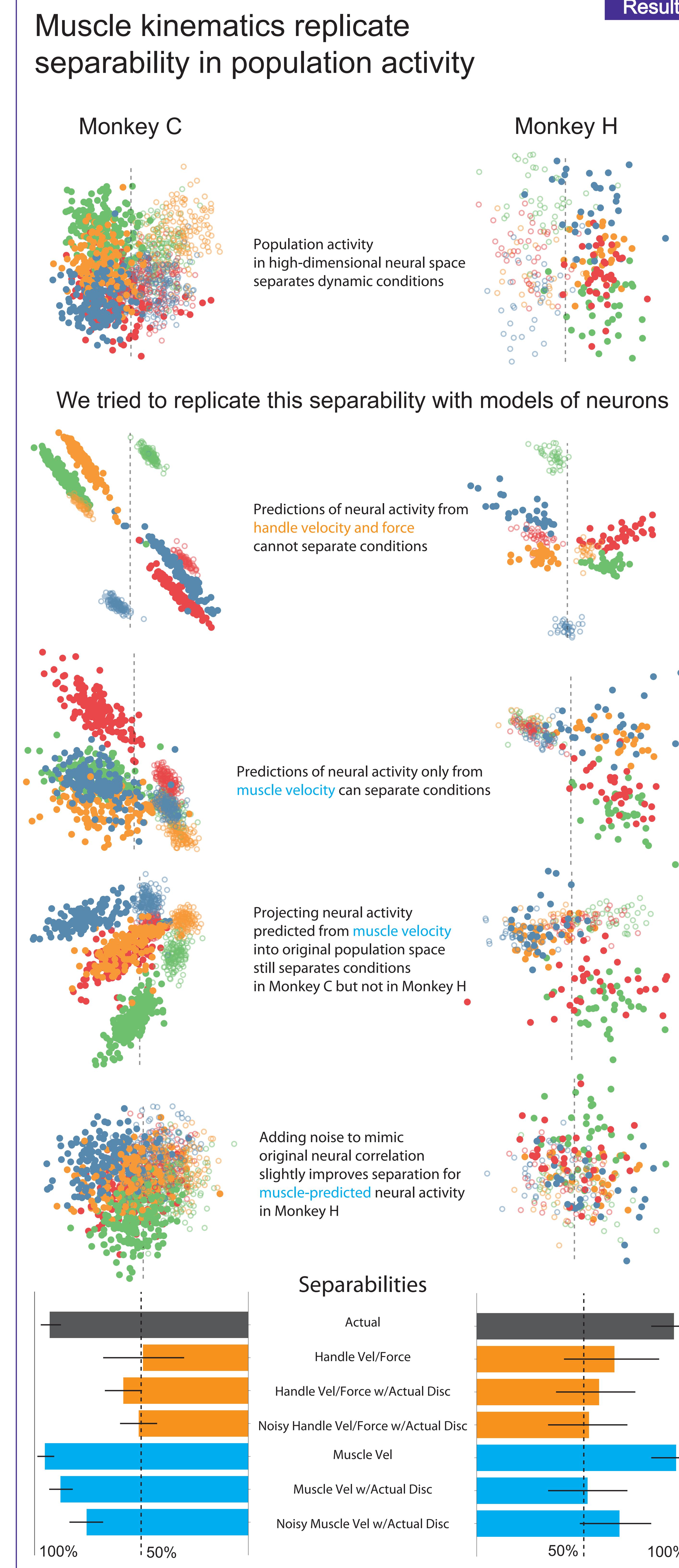
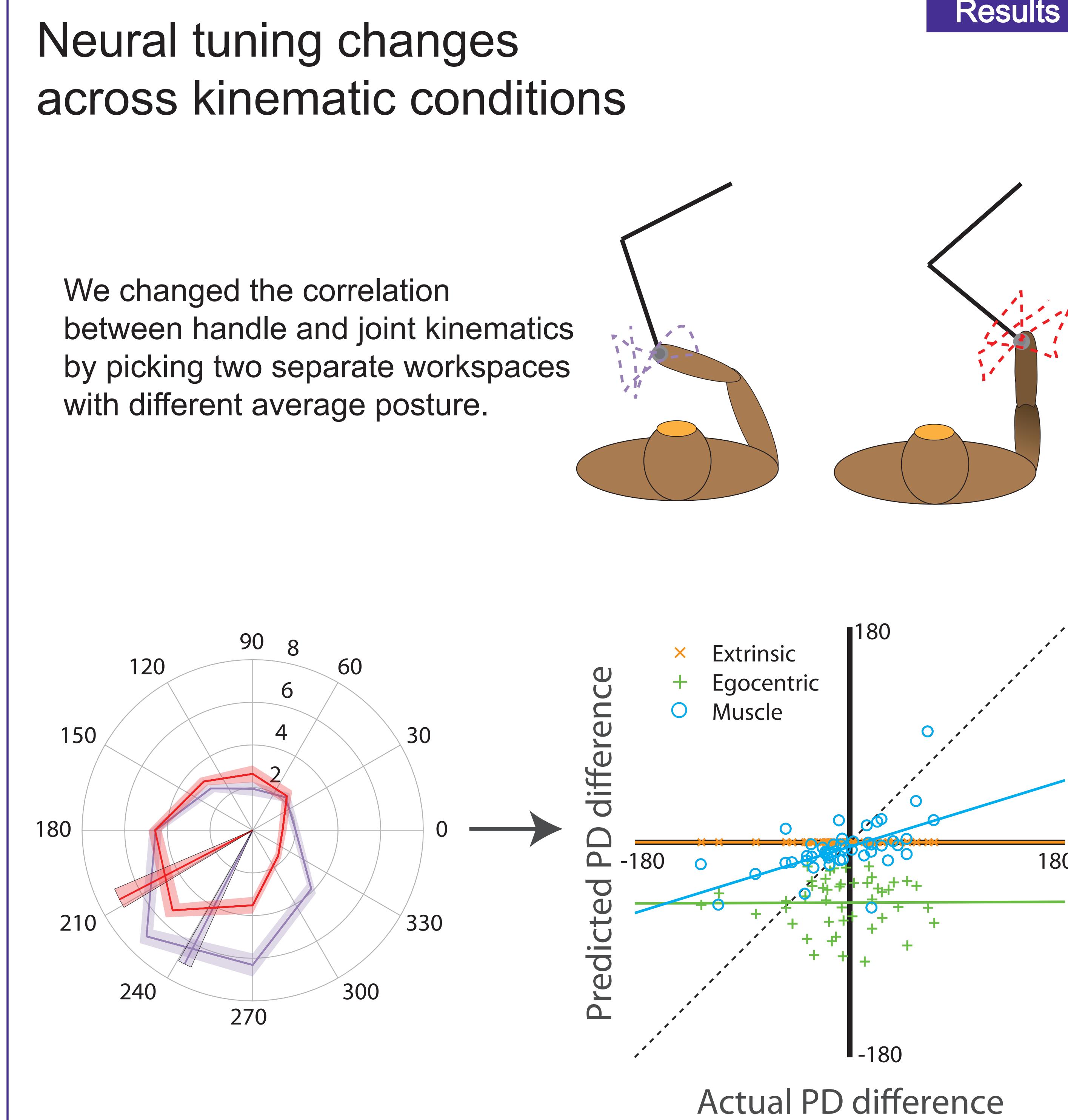
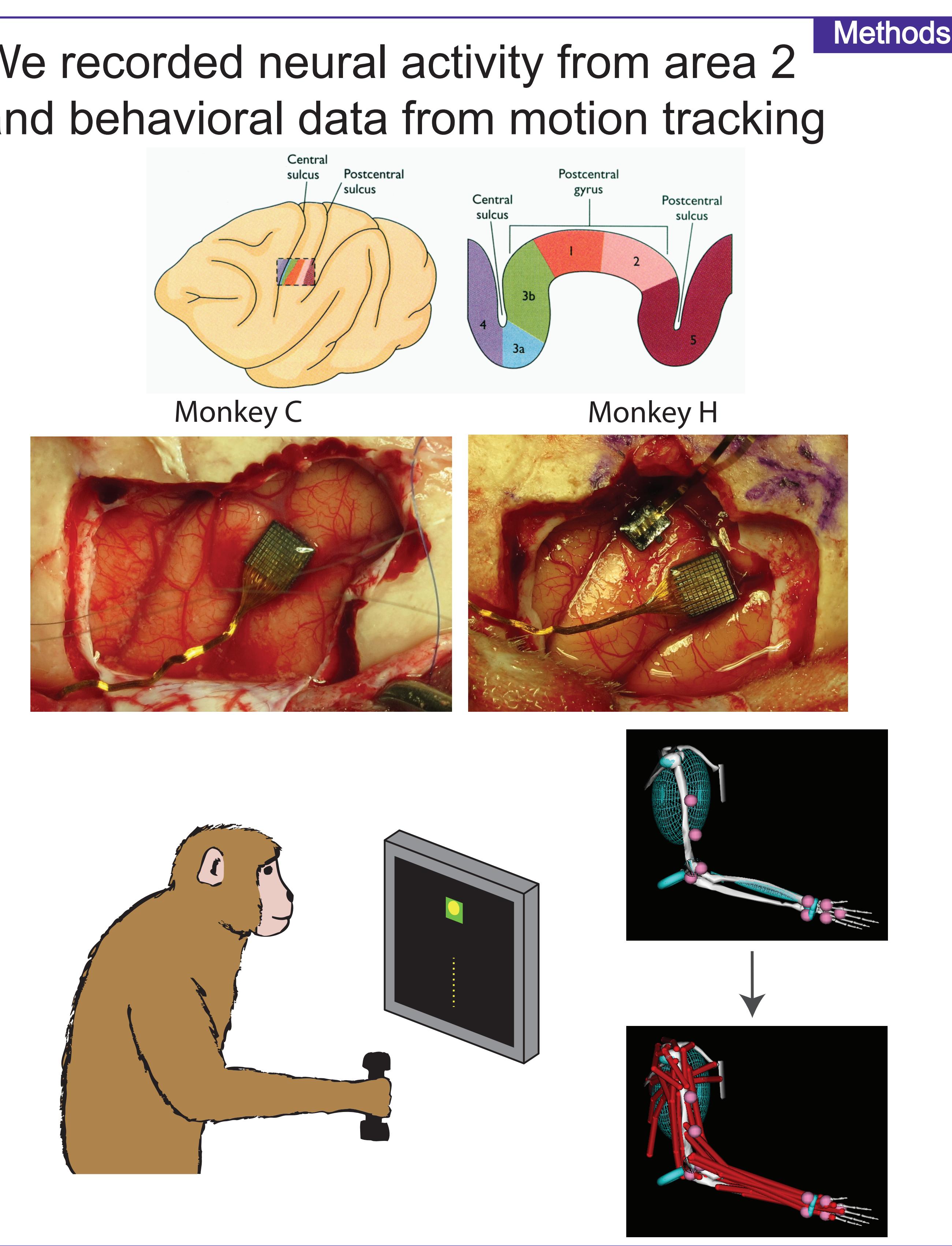
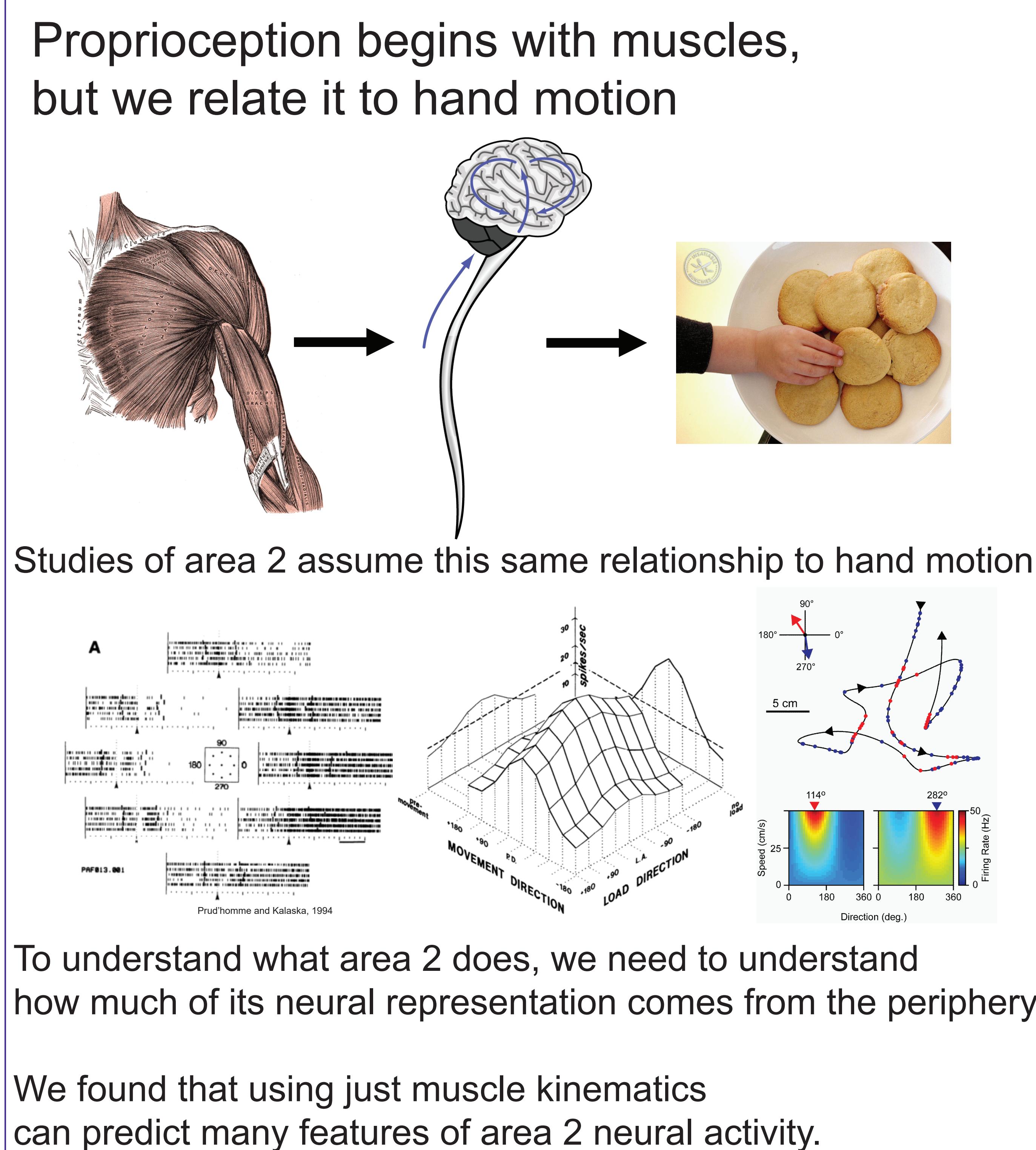
Integration of force and movement representation in proprioceptive area 2 of primary somatosensory cortex

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- Conclusions**
- Early studies of area 2 assume a hand-based representation of proprioception, linearly combining information about movement and force at the hand.
 - Using multiple workspaces, we've found that area 2 appears to respond to kinematics in a more muscle-like coordinate frame.
 - Active and passive dynamic conditions are linearly separable in population activity. This separability can be explained by a muscle kinematics-based representation, but not a hand-based representation.
 - We've found that apparent load tuning in area 2 neurons can simply arise from muscle kinematics.
 - Despite this apparently large influence of the periphery on area 2, relatively few neurons responded to specific muscle afferent stimulation.

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