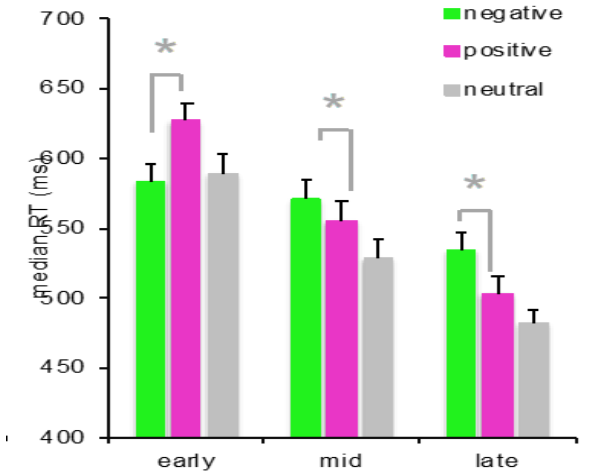
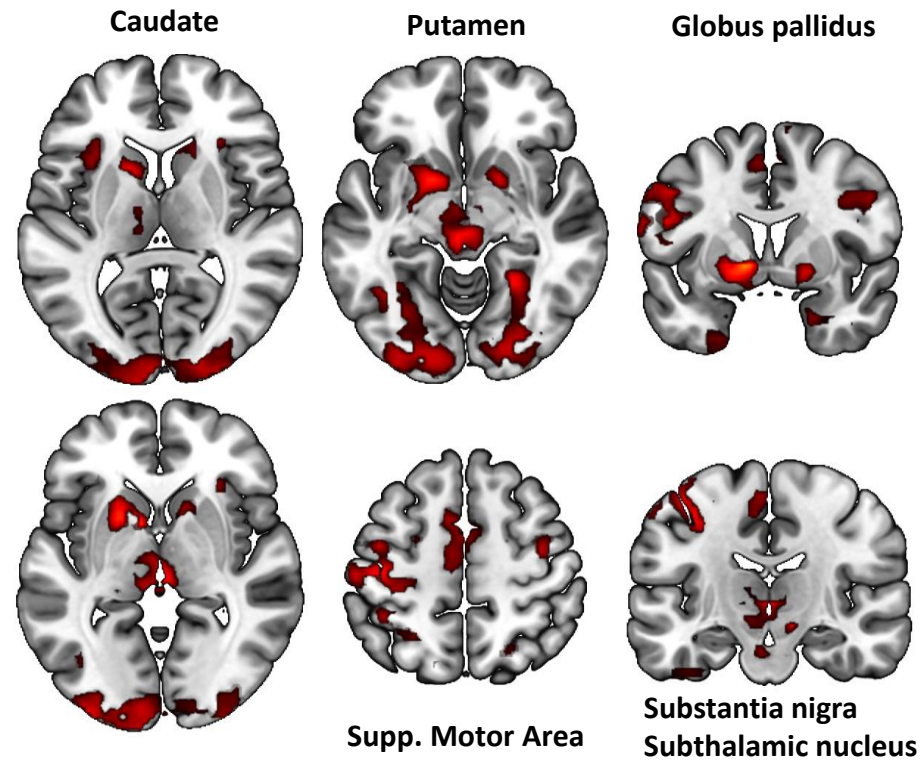


Automatic inhibitory control

Inhibitory control is a key mechanism to suppress unwanted actions and thus regulate behaviour. We suggest that inhibitory control can be **automatized** and learnt via **stimulus-stop** associations.

We aimed to:

1. Elicit and measure automatic inhibition.
2. Define its underlying neural circuitry.
3. Understand how emotions can interfere with automatic inhibition.
4. Uncover potential neurophysiological signatures.



Our results suggest that:

- a. We can successfully **measure** automatic inhibition.
- b. The **neural network** for automatic response inhibition relies on increased subcortical and cortical activation of motor areas.
- c. The presence of **negative emotional** might hinder the disengagement from the habitual system and
- d. Corticospinal excitability might not be a good **neurophysiological signature** of automatic inhibition.

