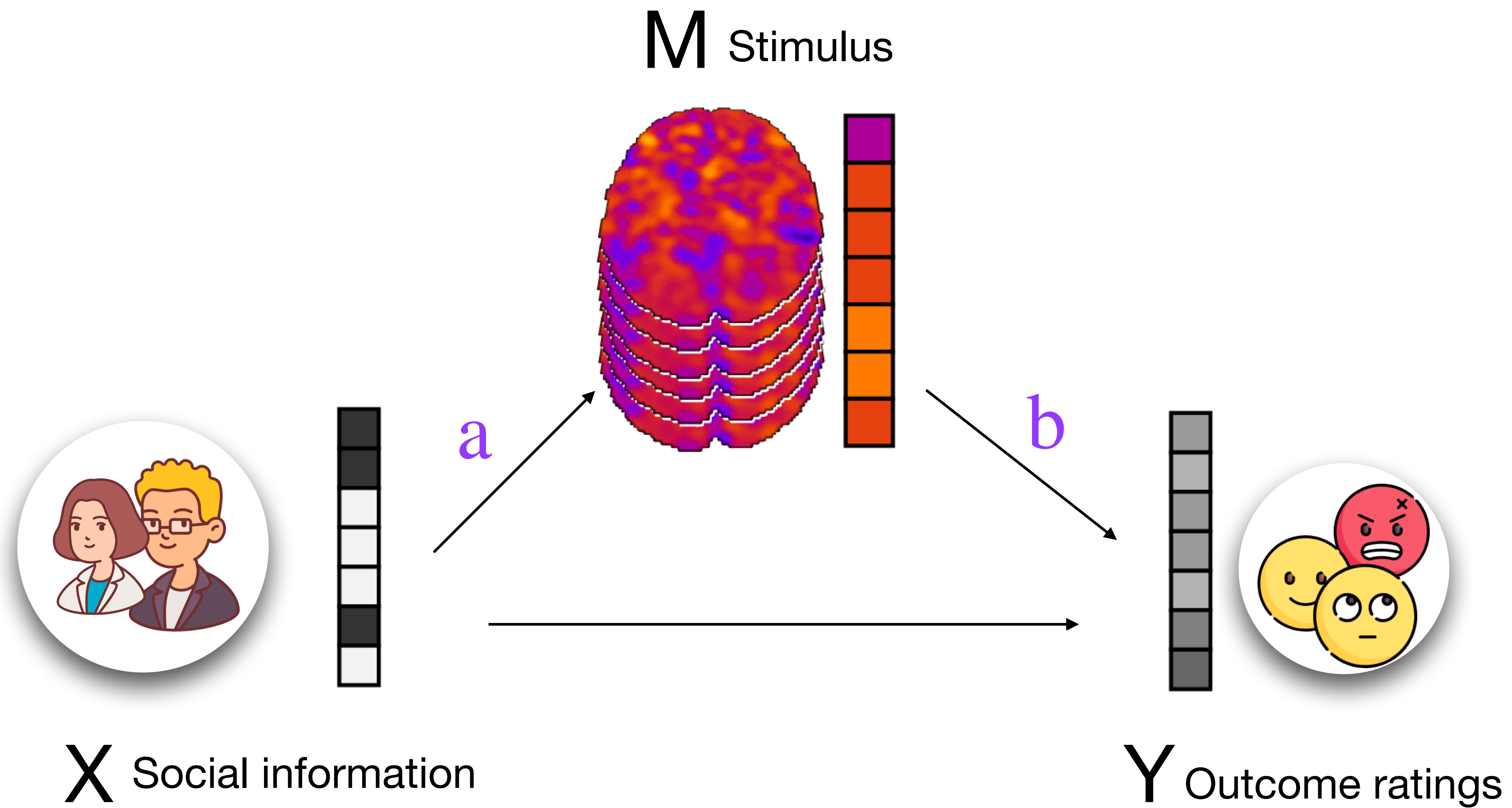




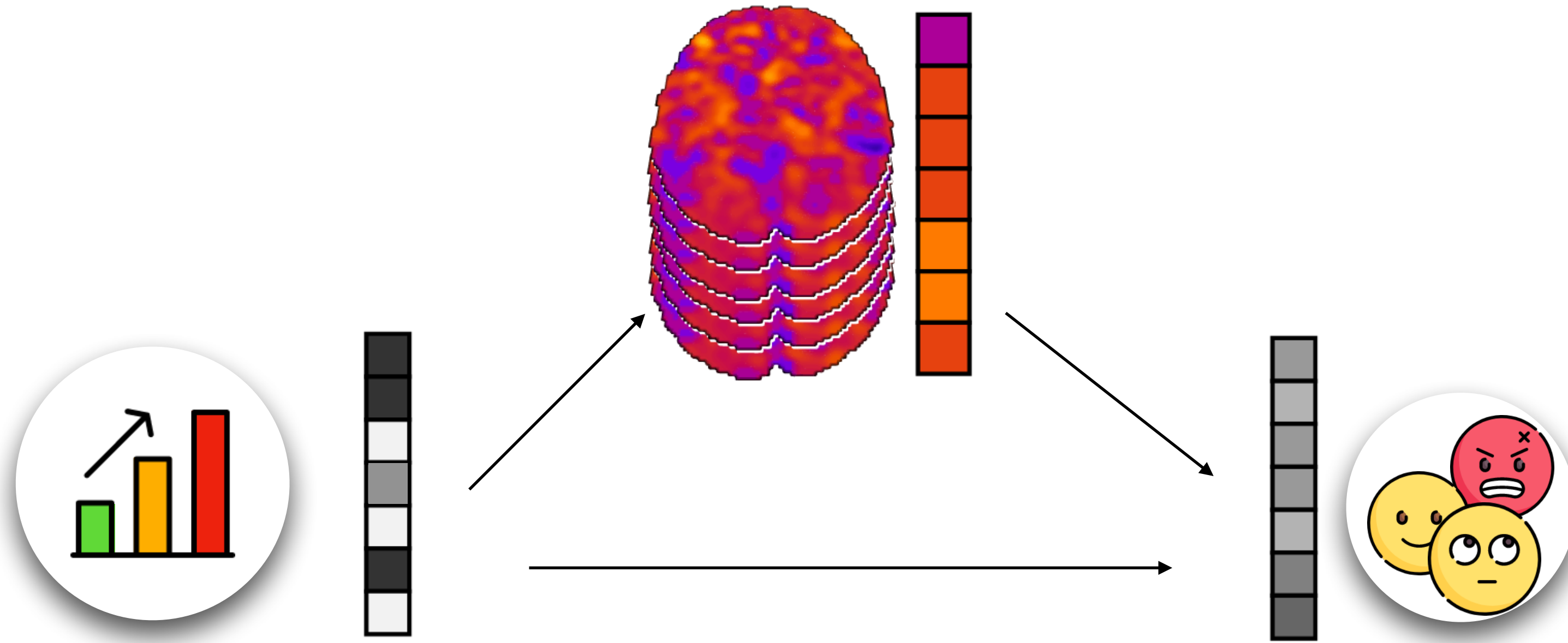
Neural Representation of Expectations on Somatic Pain, Vicarious Pain, and Cognitive Effort

fMRI results

Multilevel-mediation analysis...

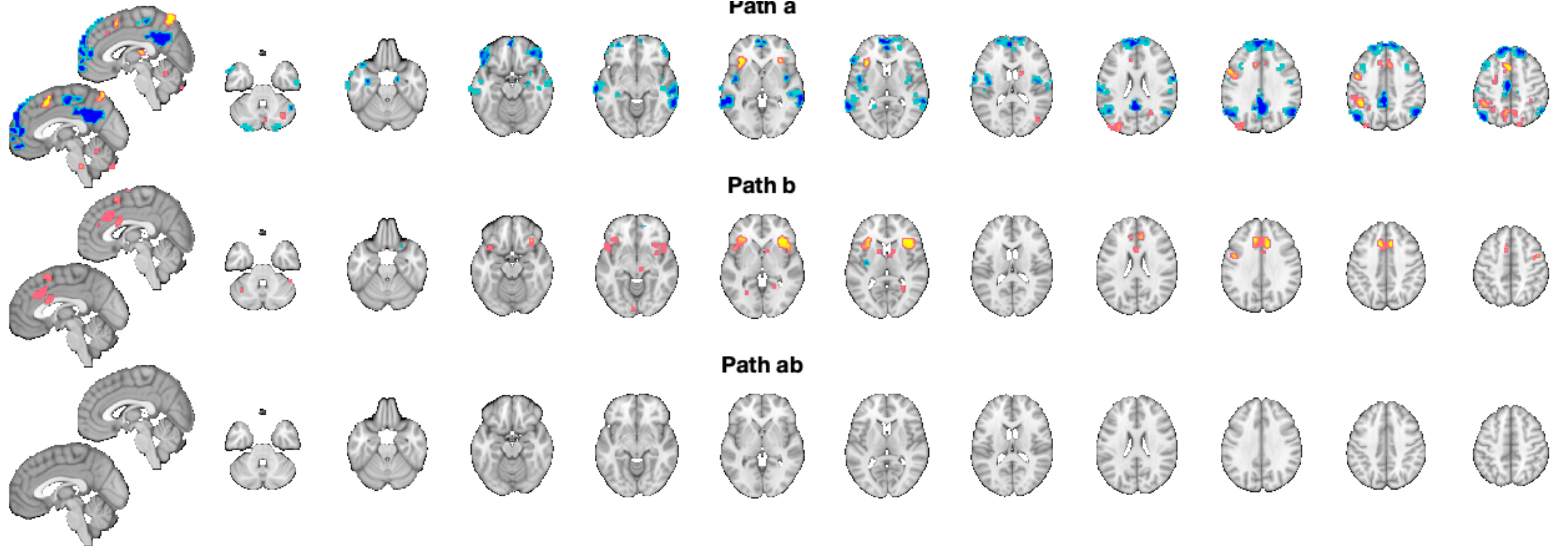
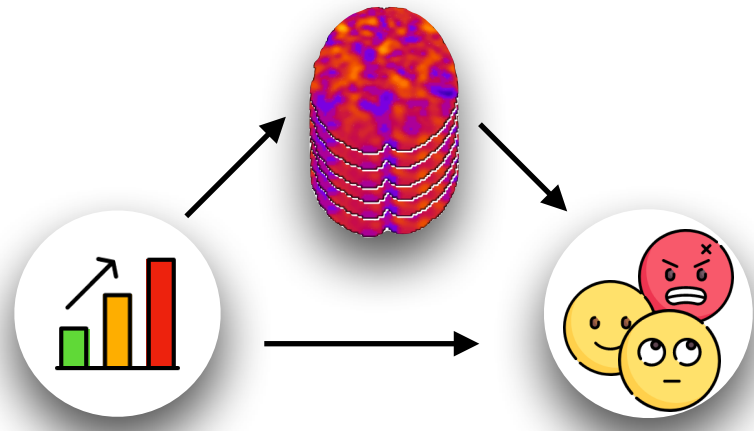


Mediation :: Positive control

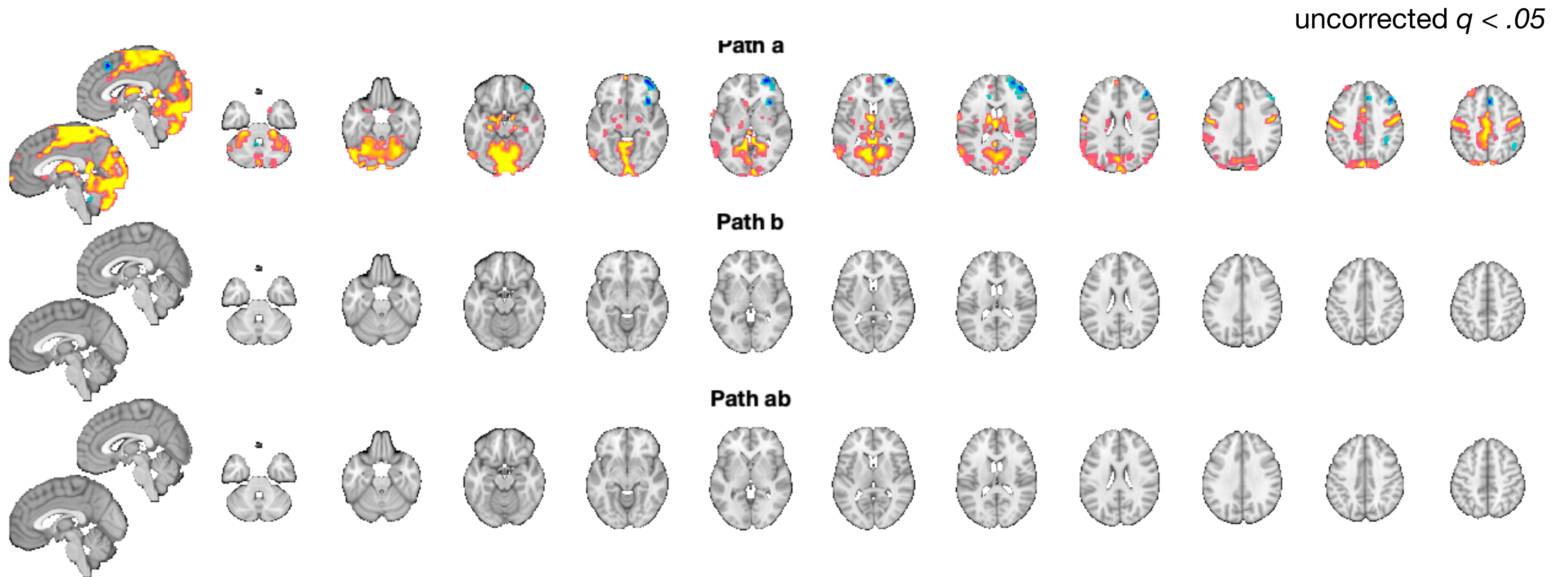
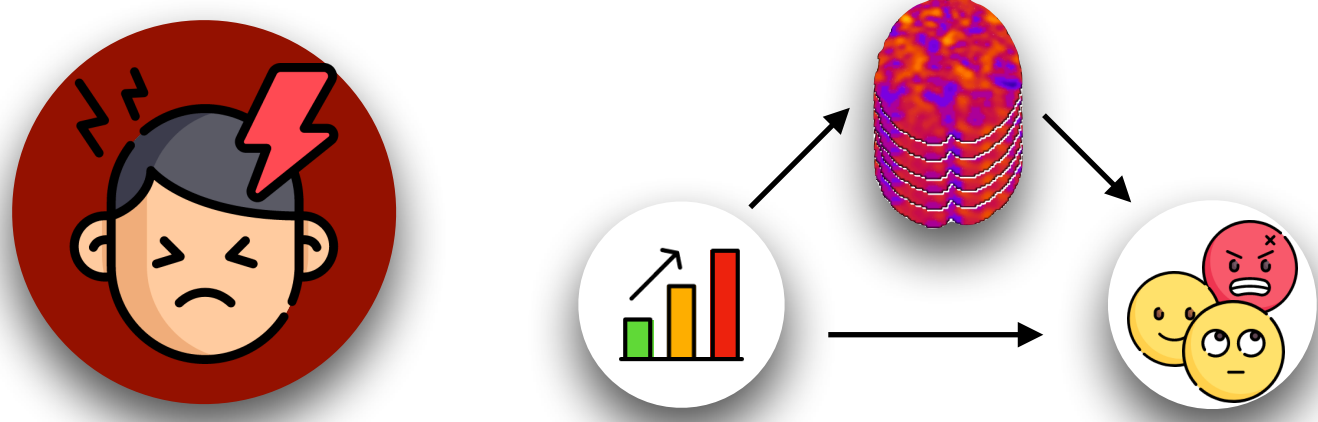


X Stimulus intensity → **M** Stimulus brain → **Y** outcome rating

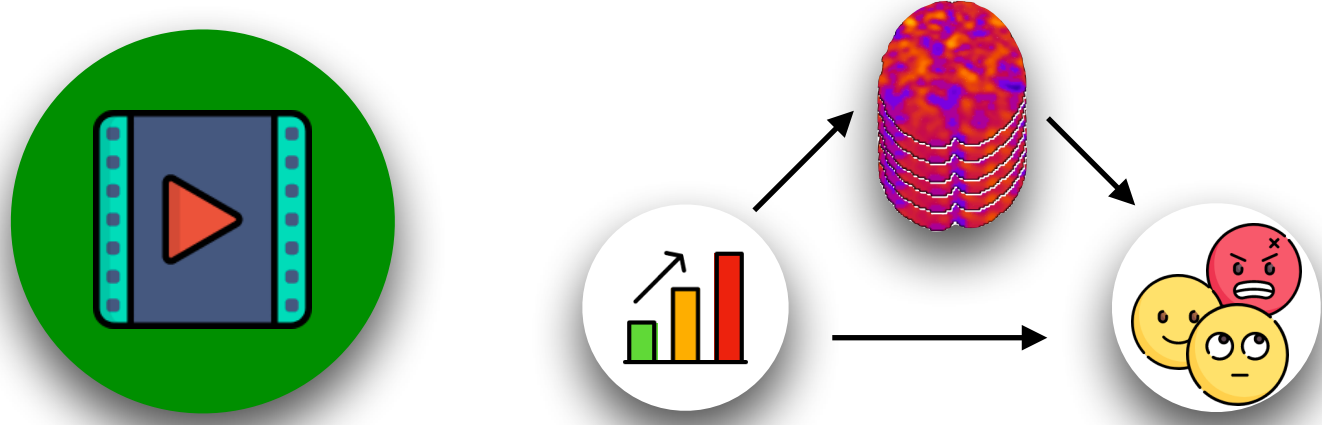
Cognitive :: intensity \rightarrow stimulus \rightarrow outcome rating



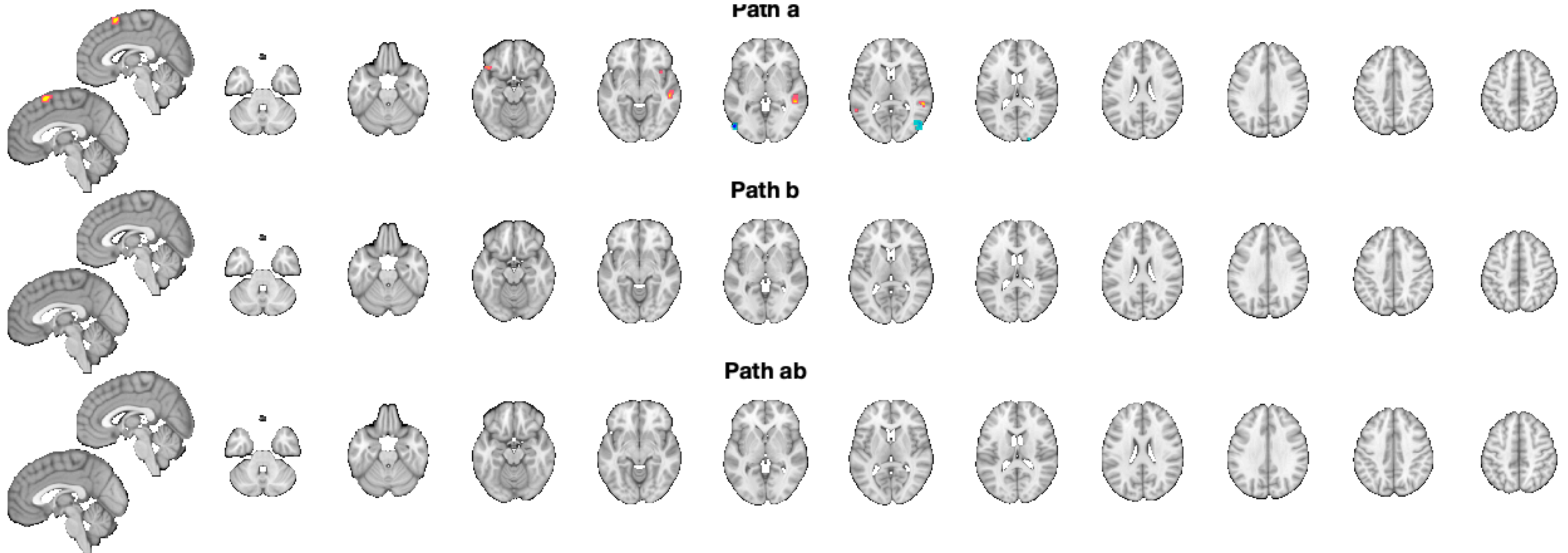
Pain :: intensity → stimulus → outcome rating



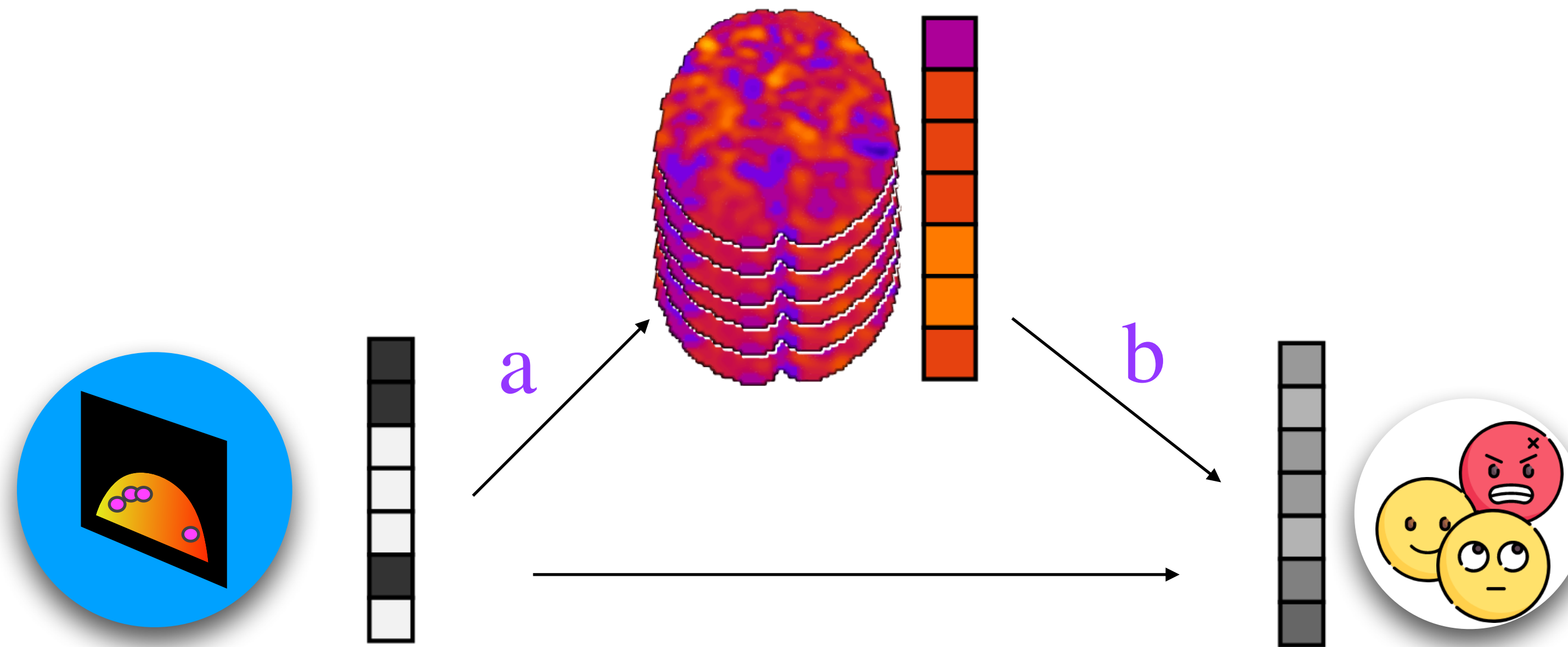
Vicarious :: intensity \rightarrow stimulus \rightarrow outcome rating



FDR corrected $q < .05$

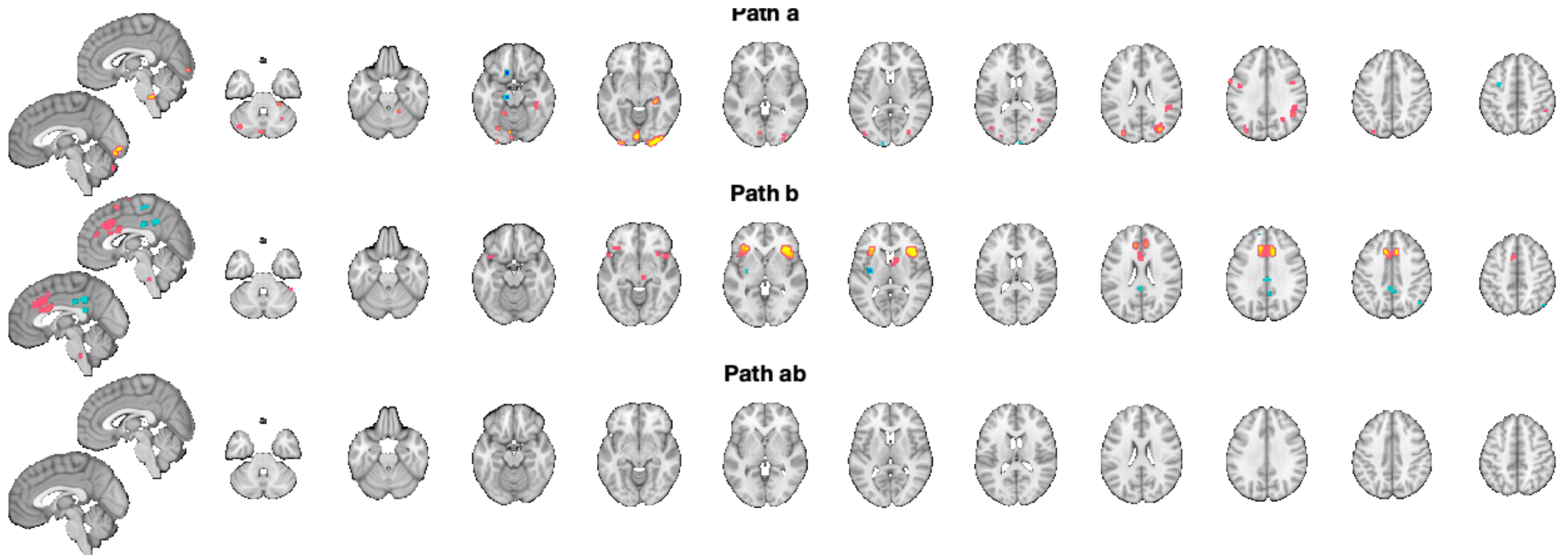
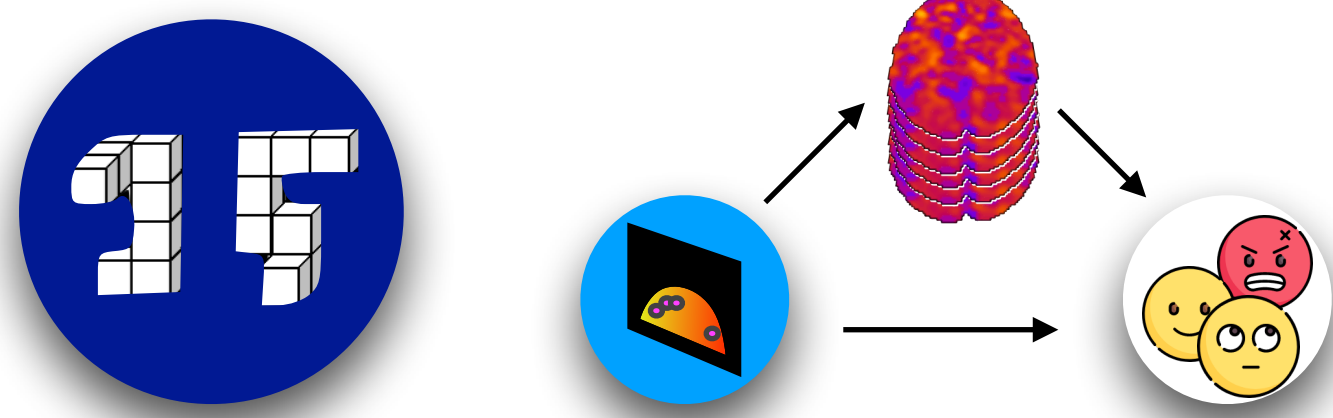


Cue effect ::

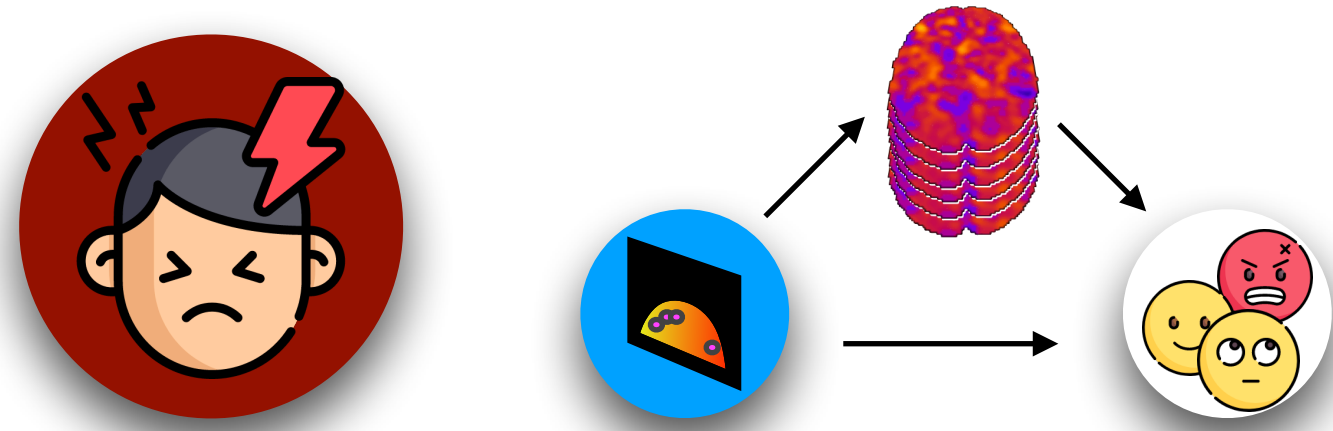


X Cue → **M** Stimulus brain → **Y** outcome rating

Cognitive :: cue → stimulus → outcome ratings

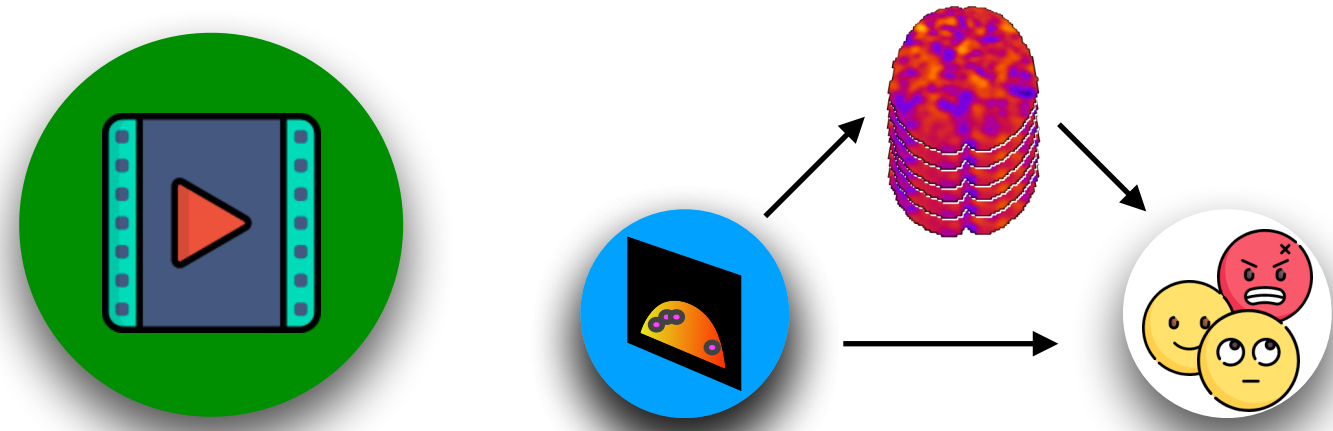


Pain :: cue → stimulus → outcome ratings



NA

Vicarious :: cue → stimulus → outcome ratings



NA