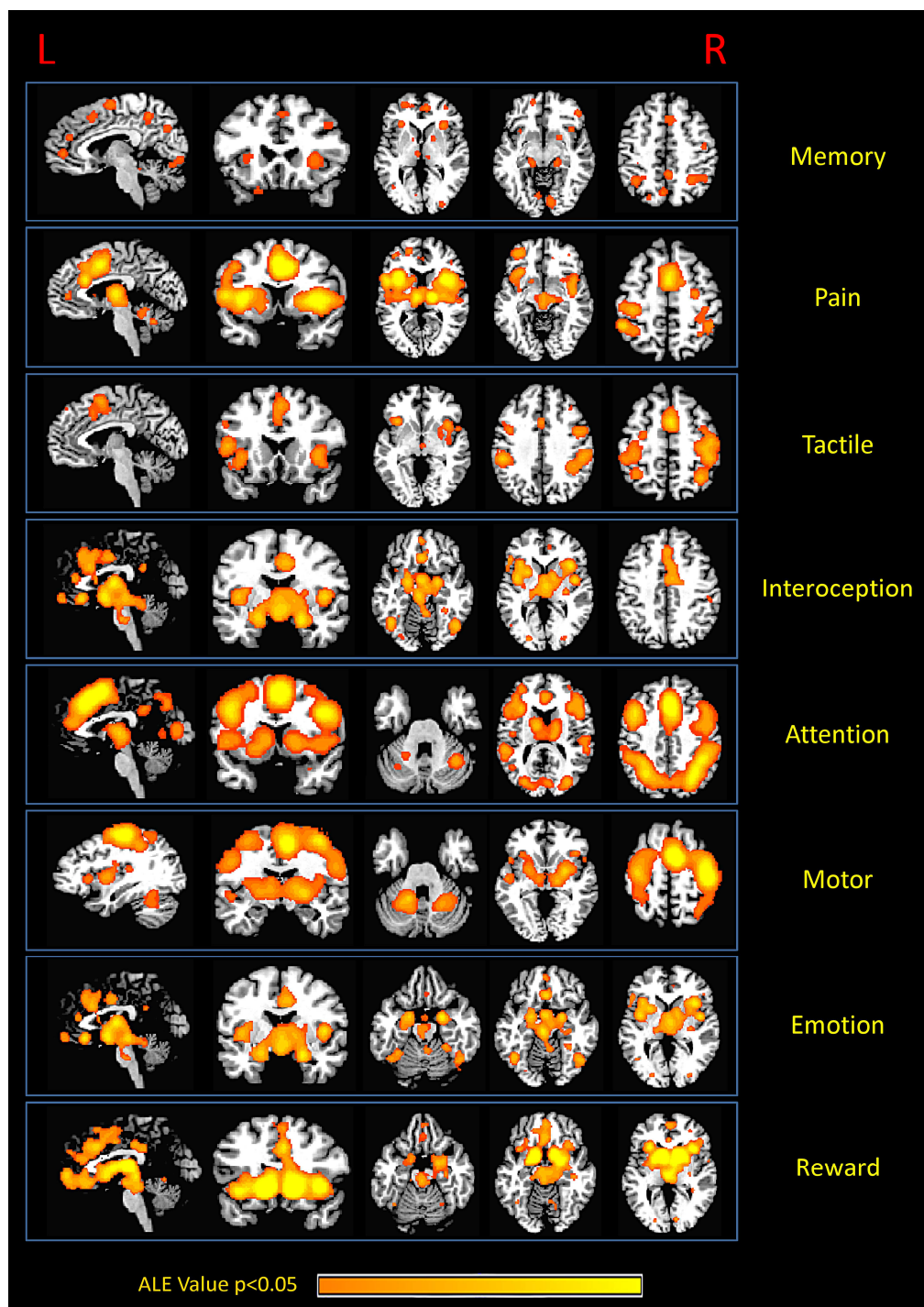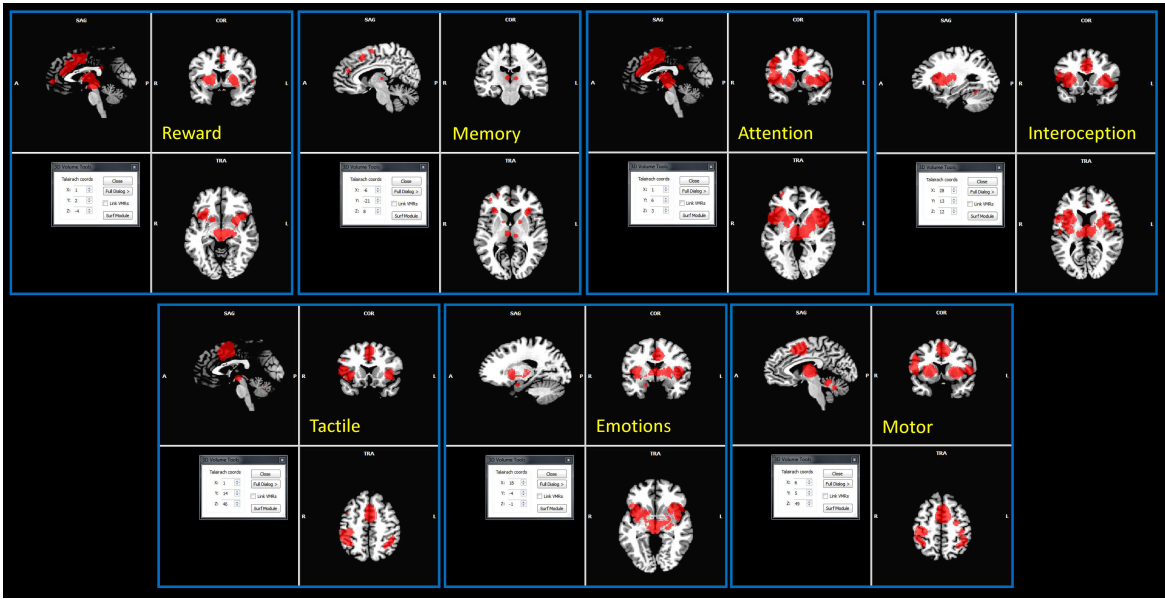# SUPPLEMENTARY FIGURES

FIG S1 TASK-RELATED NETWORKS

ACTIVATION LIKELIHOOD ESTIMATION STATISTICAL MAPS RELATIVE TO THE ACTIVATION NETWORKS IN QUESTION: PAIN, MEMORY, TACTILE STIMULATION, INTEROCEPTION, ATTENTION, MOTOR EXECUTION, EMOTIONS AND REWARD. ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM^3 AND VISUALIZED USING BRAINVOYAGER QX 2.1.

FIG S2 AREAS OF OVERLAP BETWEEN PAIN NETWORK AND MEMORY, TACTILE STIMULATION, INTEROCEPTION, ATTENTION, MOTOR EXECUTION, EMOTIONS AND REWARD NETWORKS.
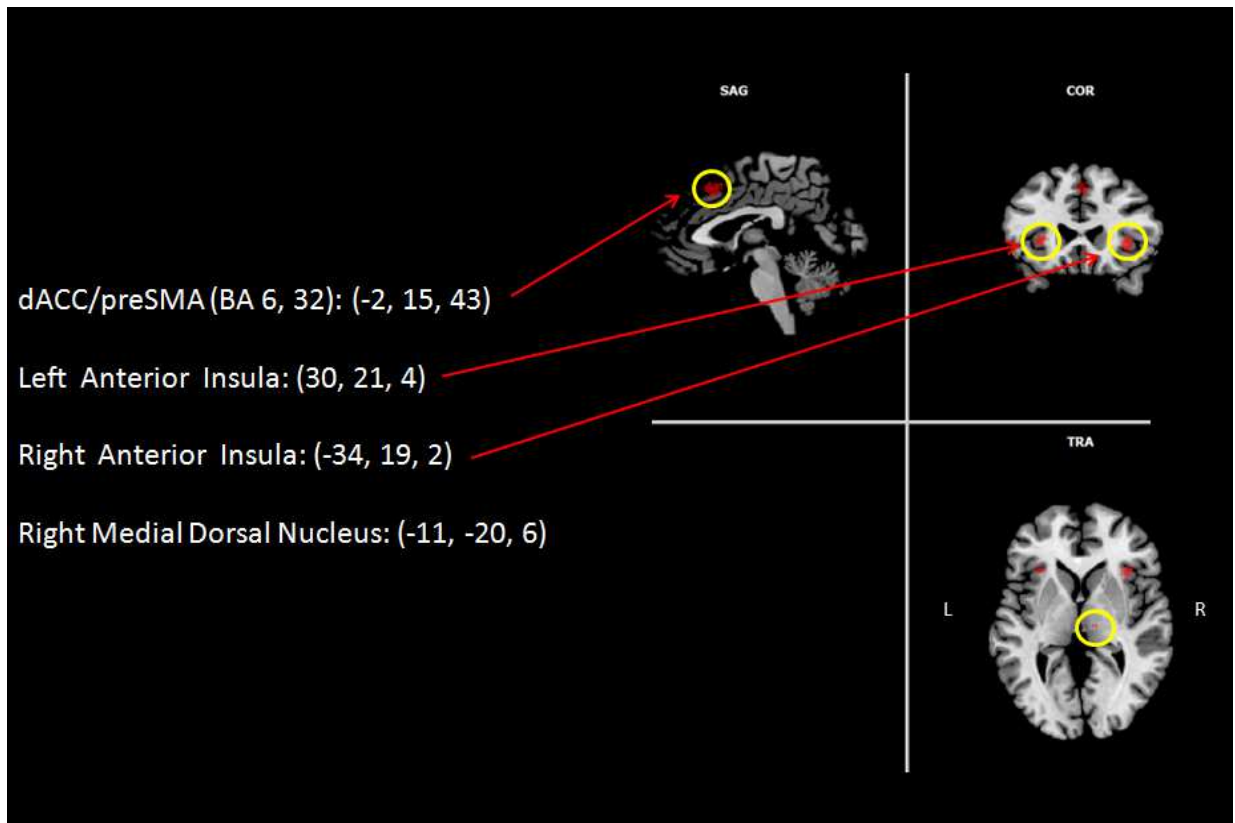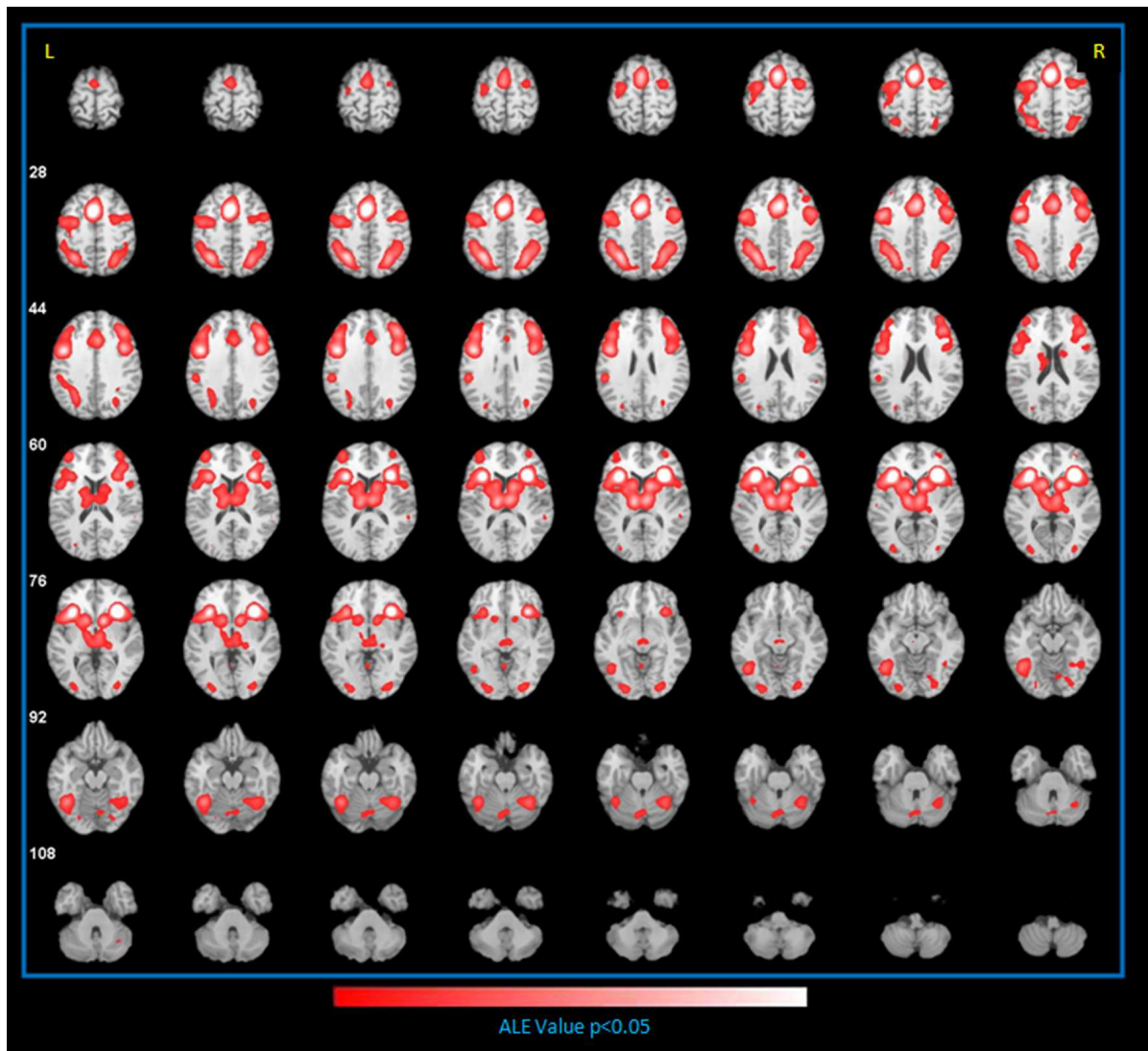
ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

dACC/preSMA (BA 6, 32): (-2, 15, 43)

Left Anterior Insula: (30, 21, 4)

Right Anterior Insula: (-34, 19, 2)

Right Medial Dorsal Nucleus: (-11, -20, 6)

ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3
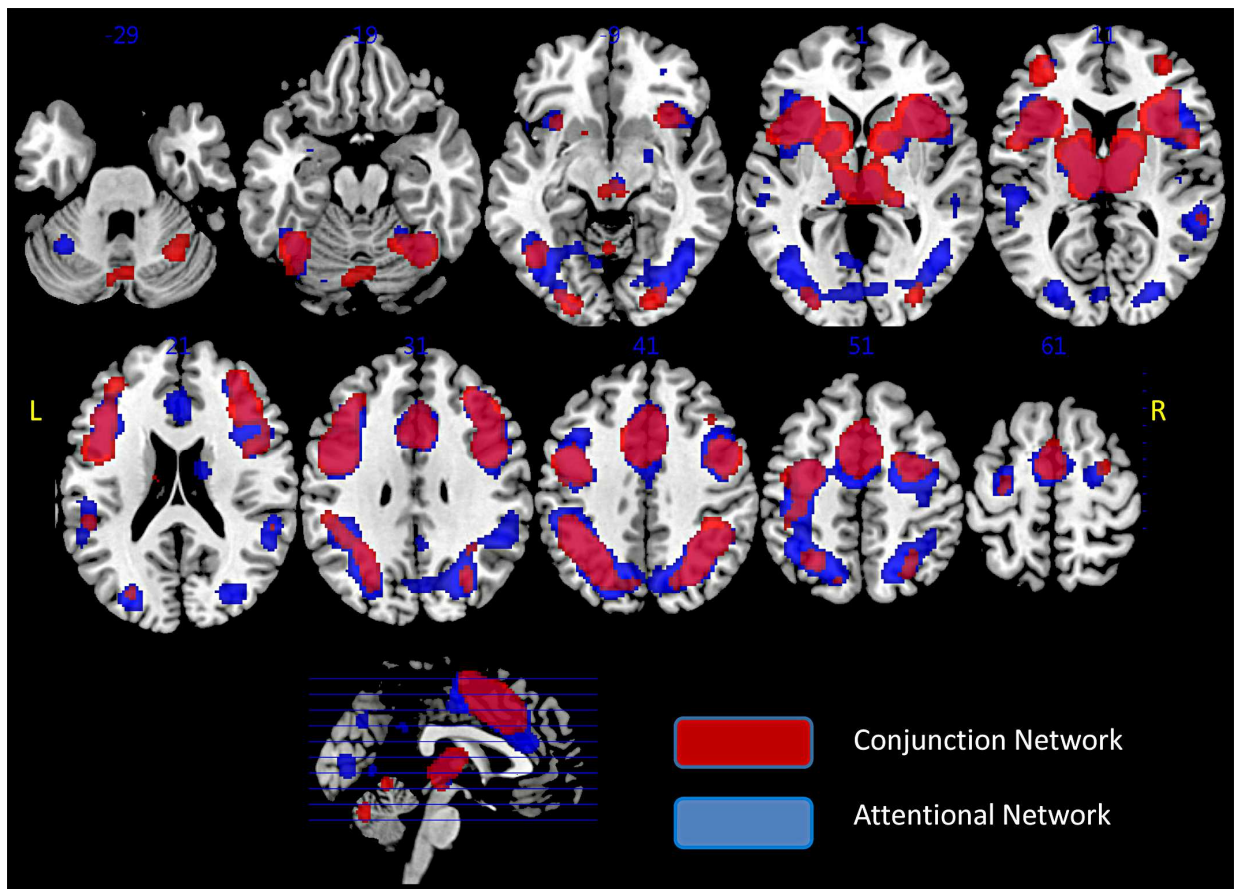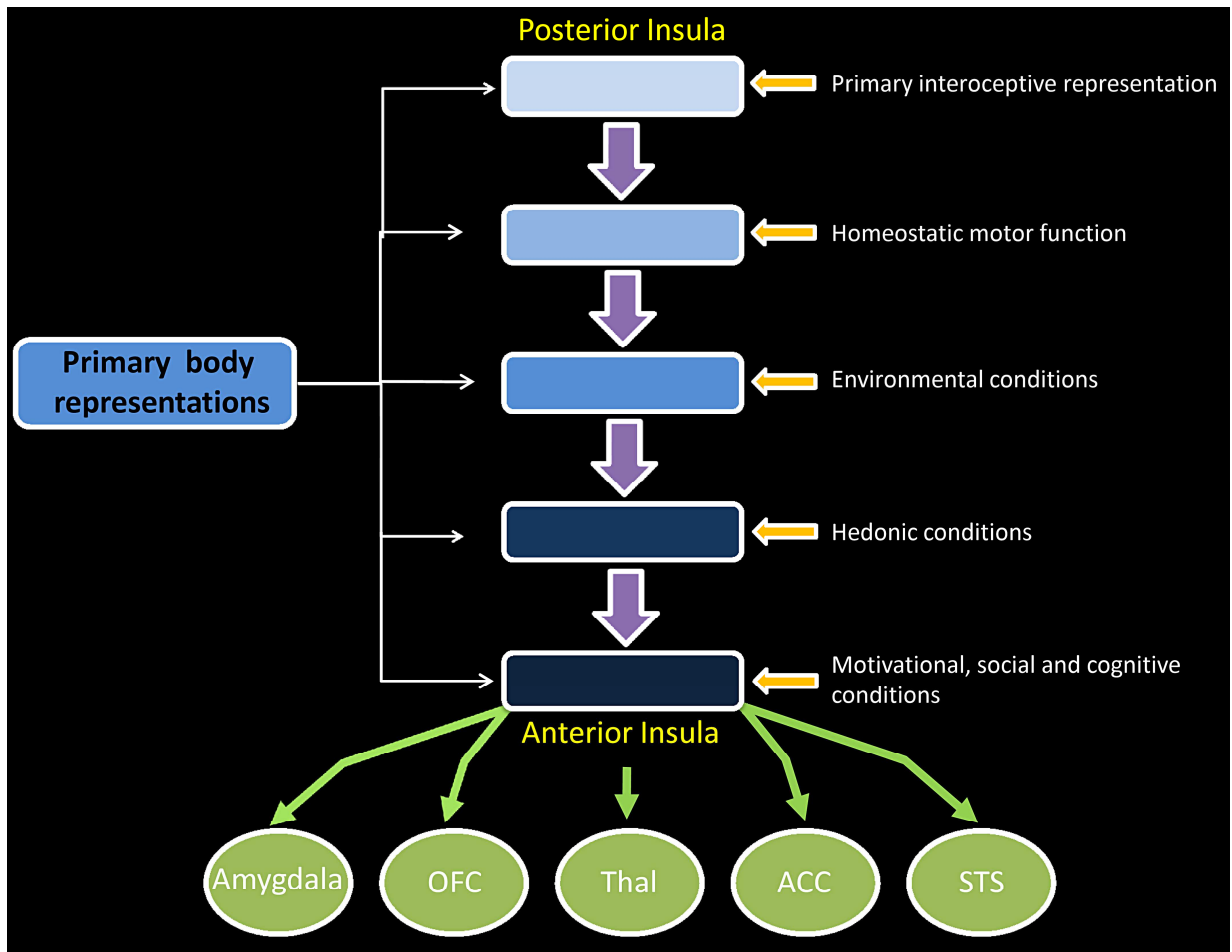
ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM³ 100MM³ AND VISUALIZED USING MRICRON (HTTP://WWW.CABIATL.COM/MRICRO/MRICRON/INDEX.HTM).

[1]

Posterior Insula

Primary interoceptive representation

Homeostatic motor function

Primary body representations

Environmental conditions

Hedonic conditions

Motivational, social and cognitive conditions

Anterior Insula

Amygdala   OFC   Thal   ACC   STS
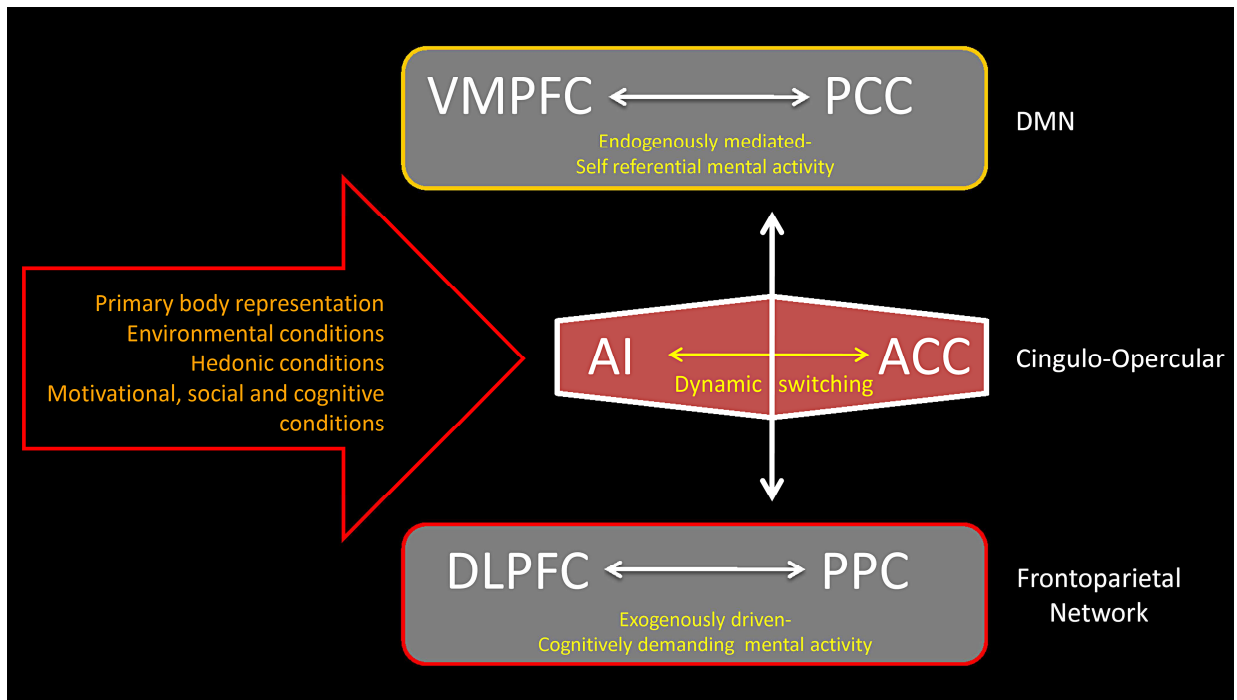
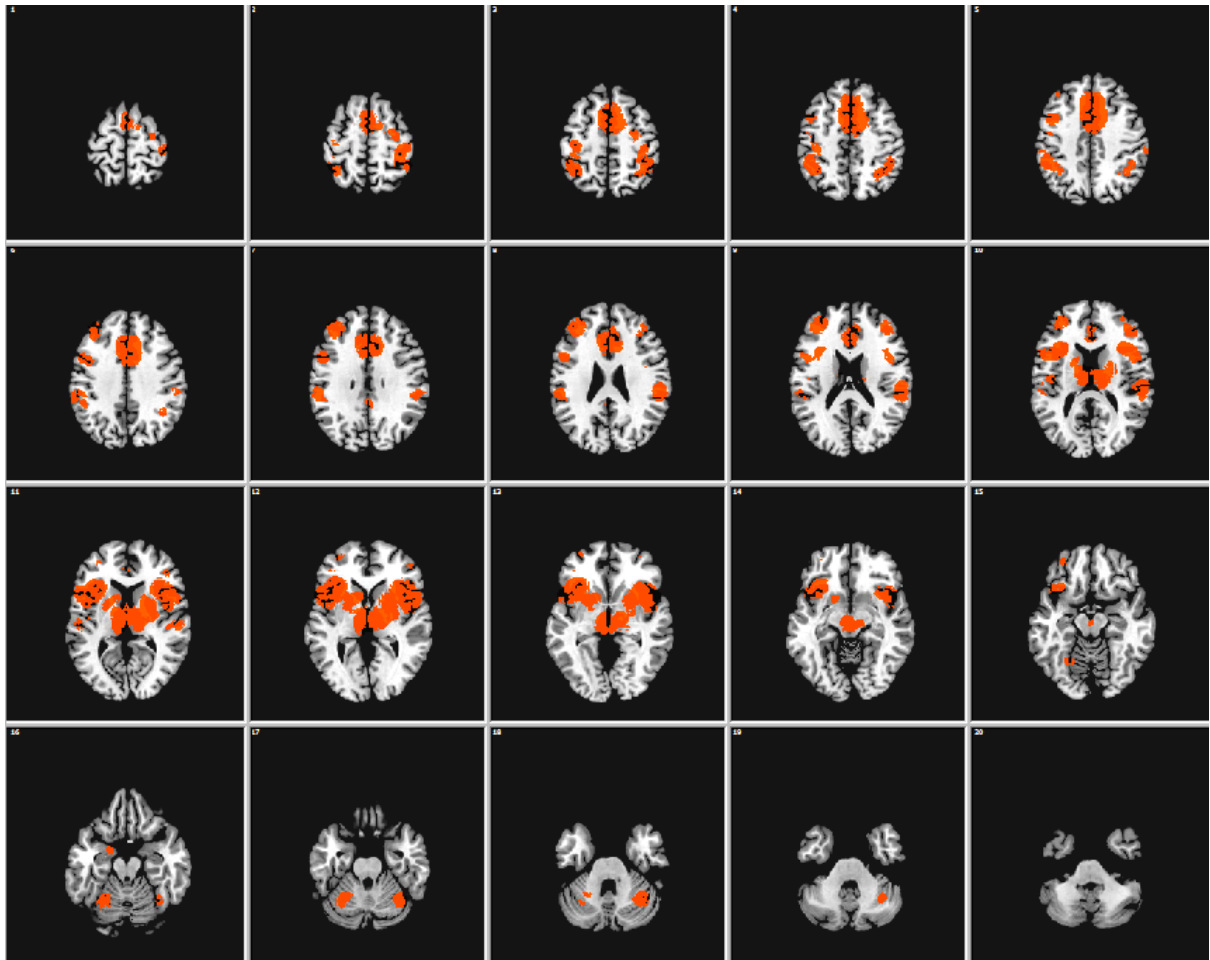[2,3,4]

FIG S8 AREAS OF OVERLAP BETWEEN PAIN NETWORK AND TACTILE STIMULATION NETWORK.
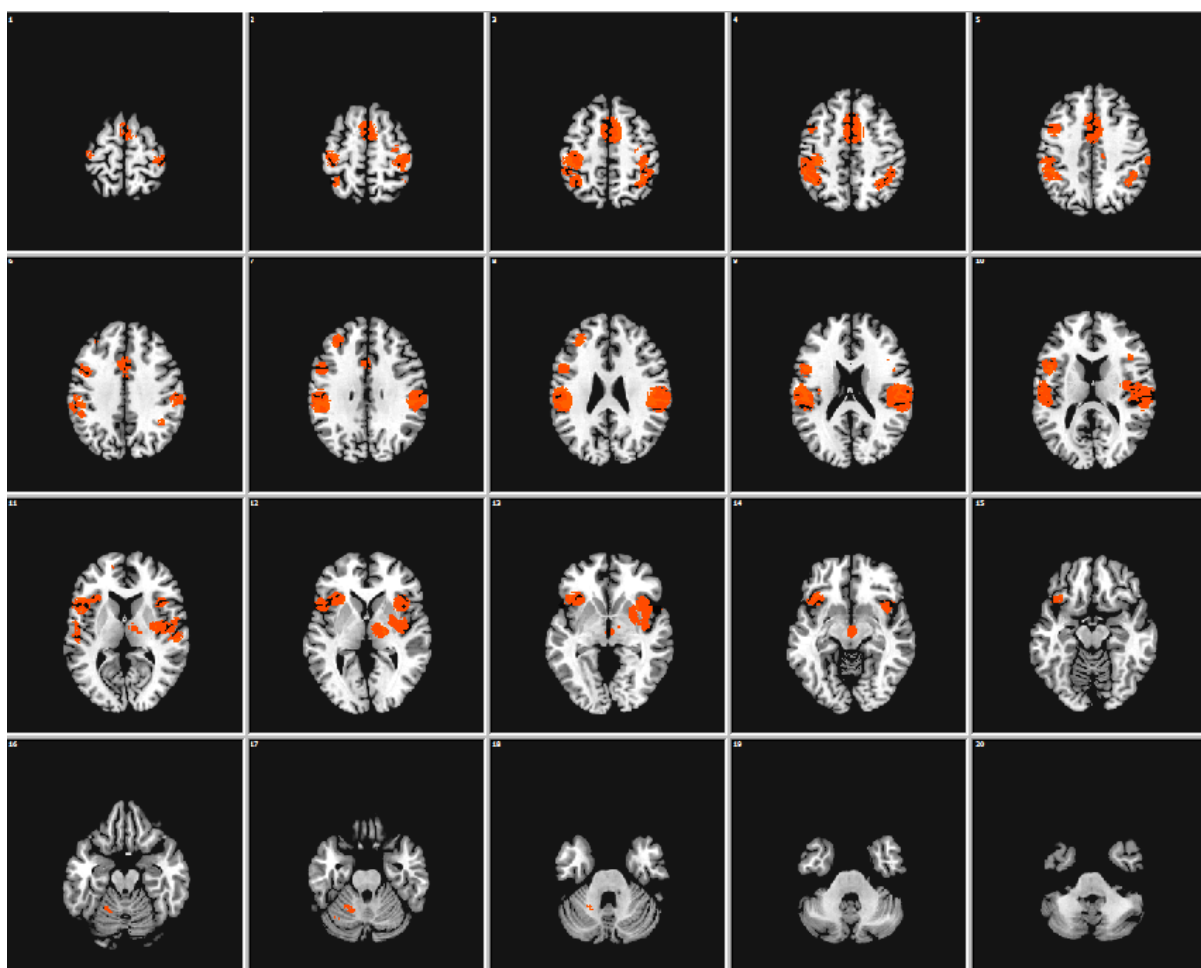
ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3
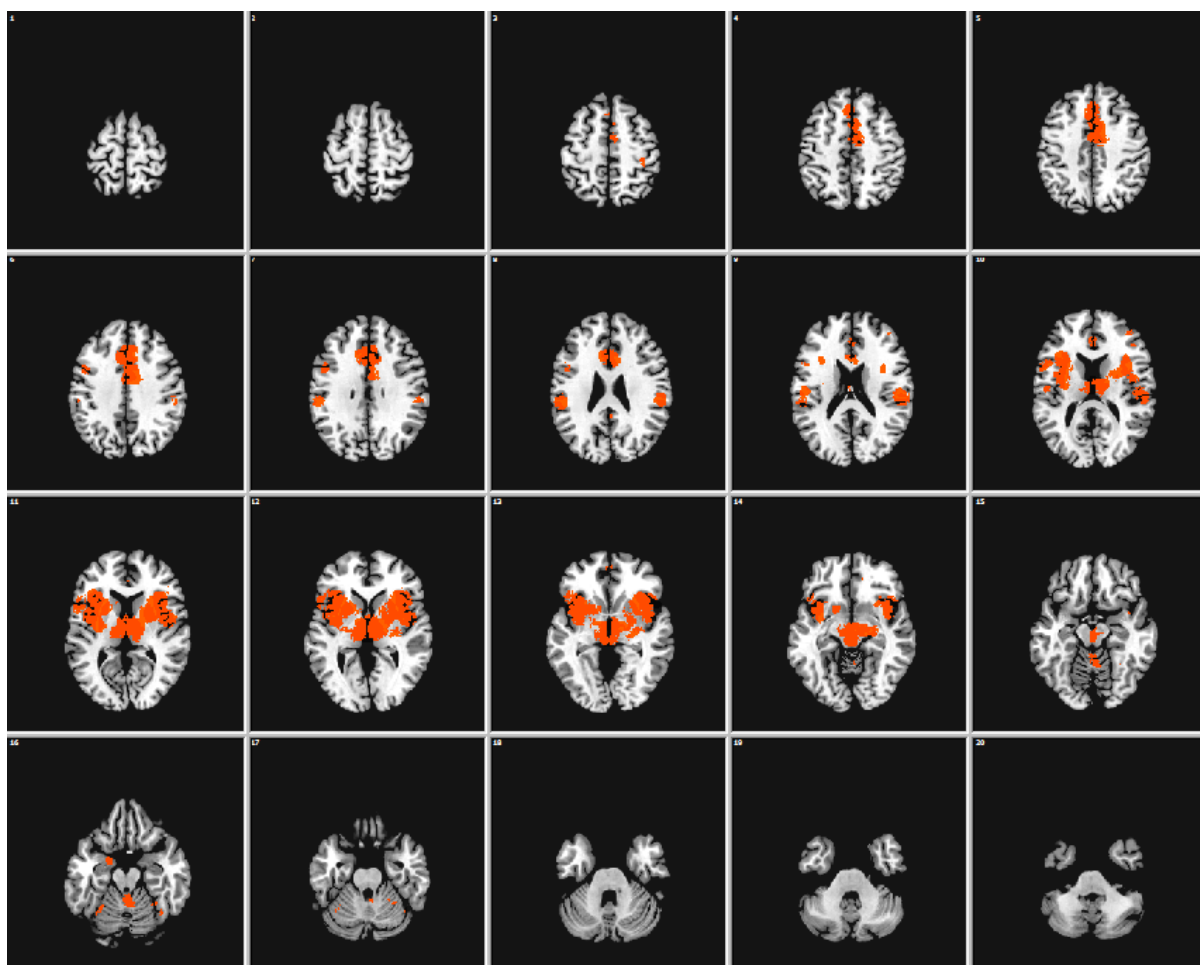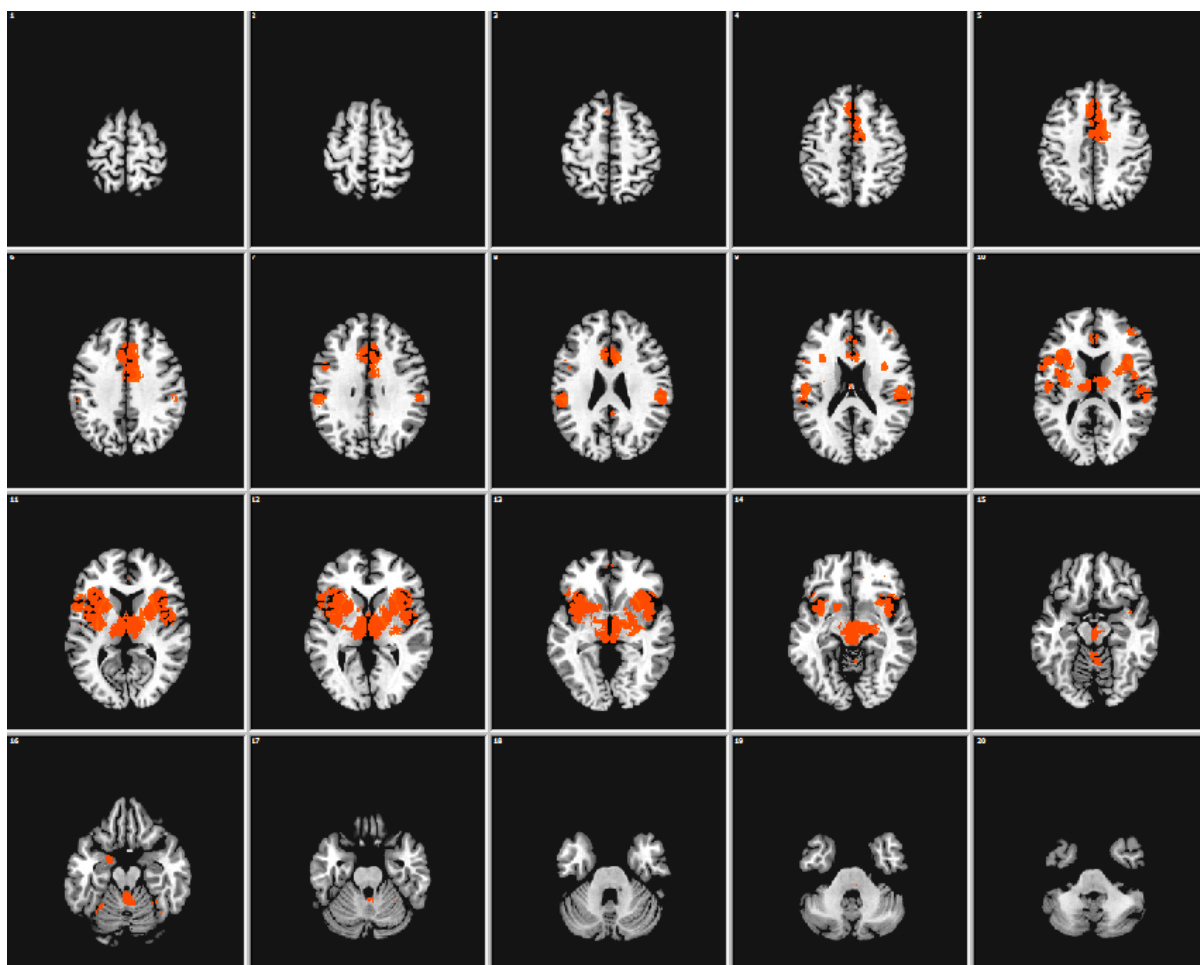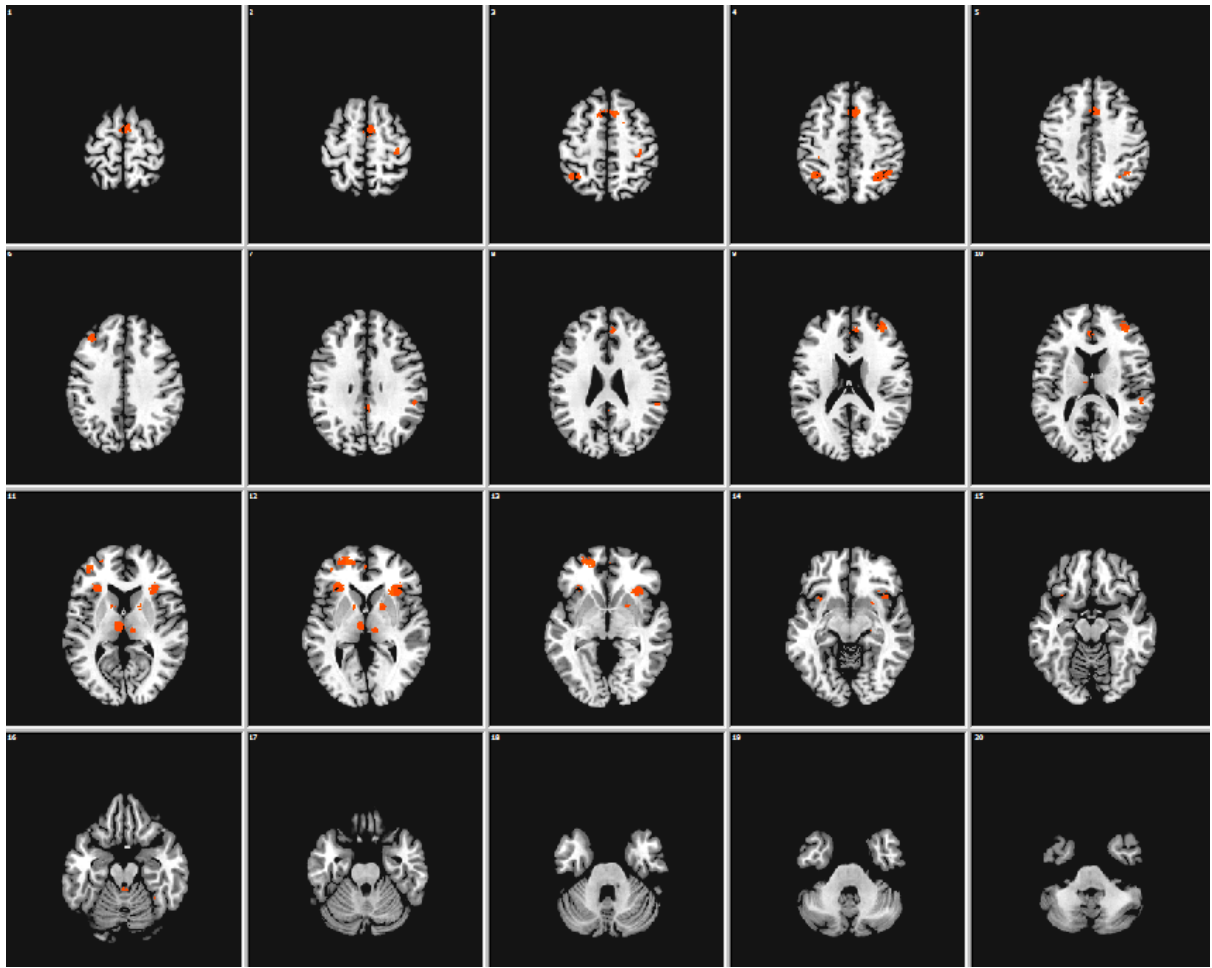
ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

FIG S11 AREAS OF OVERLAP BETWEEN PAIN NETWORK AND INTEROCEPTION NETWORK.
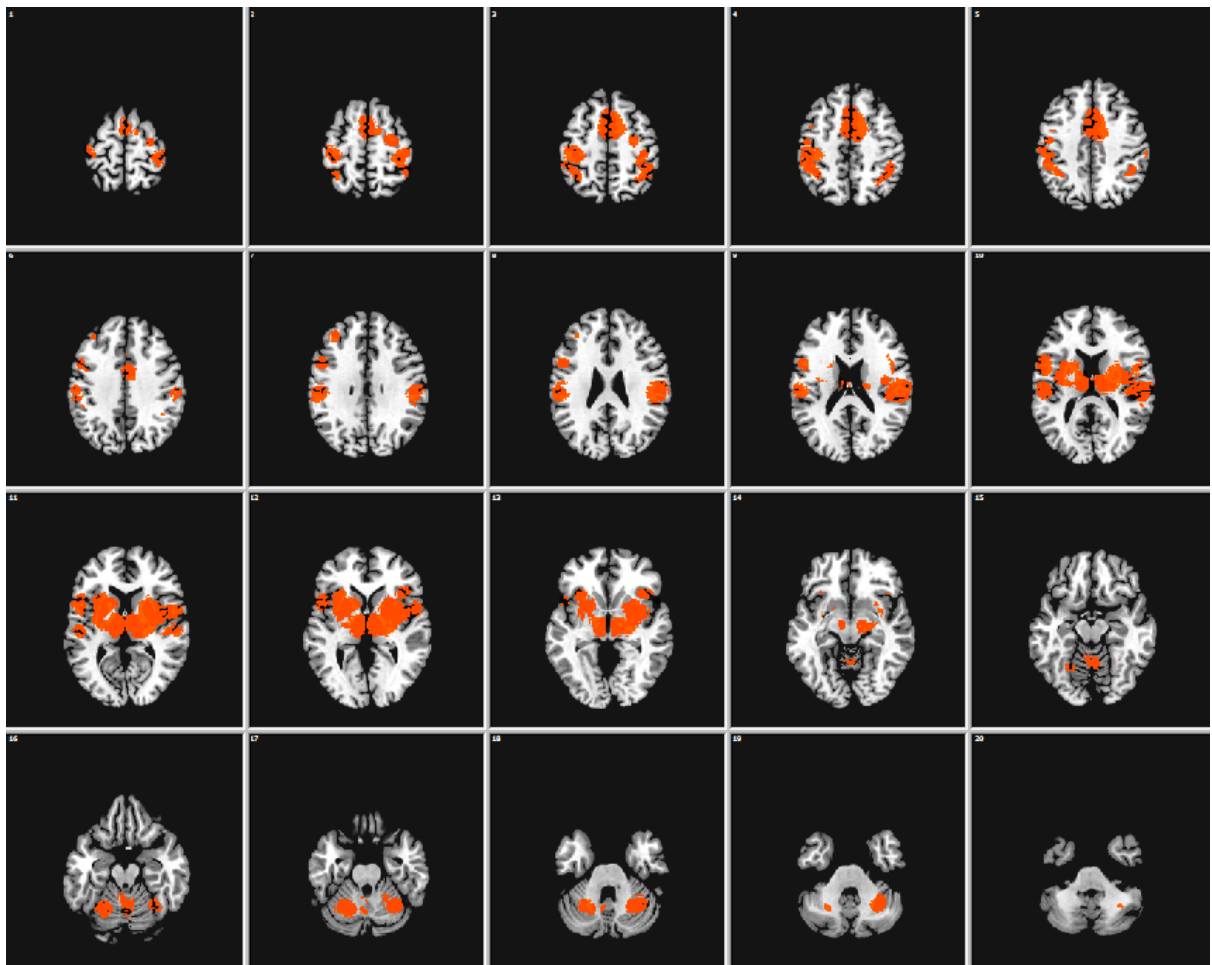

ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

ALE MAPS WERE COMPUTED AT AN FDR-CORRECTED THRESHOLD OF P < 0.05; MINIMUM CLUSTER DIMENSION K>100MM3

REFERENCES

1. Uddin LQ, Menon V (2009) The anterior insula in autism: under-connected and under-
   examined. Neurosci Biobehav Rev 33: 1198-1203.

2. Craig AD (2009) How do you feel--now? The anterior insula and human awareness. Nat Rev
   Neurosci 10: 59-70.

3. Mesulam MM, Mufson EJ (1982) Insula of the old world monkey. III: Efferent cortical output
   and comments on function. J Comp Neurol 212: 38-52.

4. Mufson EJ, Mesulam MM (1982) Insula of the old world monkey. II: Afferent cortical input and
   comments on the claustrum. J Comp Neurol 212: 23-37.