

**ONLINE SUPPLEMENTAL MATERIAL****Supplemental Table 1.** Table of masked regions of interest (ROI)

| ROI Name                           | ME       |          | Stimulus × Time |
|------------------------------------|----------|----------|-----------------|
|                                    | Stimulus | ME Time  | Interaction     |
|                                    | F(1, 14) | F(1, 14) | F(1, 14)        |
| Left Cerebellum White Matter       | 16.36**  | 0.03     | 0.64            |
| Left Cerebellum Cortex             | 14.32*   | 0.00     | 0.02            |
| Left Thalamus Proper               | 3.17     | 1.28     | 1.88            |
| Left Pallidum                      | 1.75     | 0.15     | 0.24            |
| Brain Stem                         | 9.61*    | 1.33     | 0.93            |
| Left Hippocampus                   | 10.37*   | 2.69     | 2.18            |
| Left Amygdala                      | 18.25**  | 5.71*    | 0.00            |
| Left Accumbens Area                | 8.25*    | 0.14     | 0.00            |
| Right Cerebellum White Matter      | 5.61*    | 0.12     | 1.26            |
| Right Cerebellum Cortex            | 8.67*    | 0.57     | 0.50            |
| Right Thalamus-Propor              | 5.34*    | 3.50     | 0.63            |
| Right Pallidum                     | 0.04     | 5.16*    | 0.13            |
| Right Hippocampus                  | 11.62*   | 6.51*    | 0.06            |
| Right Amygdala                     | 9.39*    | 17.52**  | 0.03            |
| Right Accumbens Area               | 3.738    | 0.00     | 0.02            |
| CTX Left Caudal Anterior Cingulate | 0.019    | 0.05     | 0.00            |
| CTX Left Fusiform                  | 14.96*   | 0.15     | 1.53            |
| CTX Left Inferior Parietal         | 6.62*    | 0.04     | 1.23            |
| CTX Left Isthmus Cingulate         | 13.53*   | 0.00     | 1.34            |
| CTX Left Lateral Occipital         | 22.22    | 0.84     | 1.59            |

|                                      |         |      |      |
|--------------------------------------|---------|------|------|
| CTX Left Lingual                     | 7.00*   | 0.36 | 0.49 |
| CTX Left Medial Orbitofrontal        | 4.33    | 0.00 | 0.66 |
| CTX Left Middle Temporal             | 14.23*  | 0.01 | 1.57 |
| CTX Left Para Hippocampal            | 18.77** | 0.87 | 2.05 |
| CTX Left Posterior Cingulate         | 6.65*   | 0.02 | 0.33 |
| CTX Left Rostral Anterior Cingulate  | 7.40*   | 0.09 | 0.29 |
| CTX Left Superior Frontal            | 6.02*   | 0.07 | 0.59 |
| CTX Left Insula                      | 1.67    | 1.03 | 0.44 |
| CTX Right Caudal Anterior Cingulate  | 0.17    | 0.11 | 0.01 |
| CTX Right Fusiform                   | 18.05** | 2.39 | 0.01 |
| CTX Right Isthmus Cingulate          | 8.81*   | 0.66 | 1.09 |
| CTX Right Lateral Orbitofrontal      | 2.05    | 0.39 | 2.10 |
| CTX Right Medial Orbitofrontal       | 13.37*  | 0.13 | 0.62 |
| CTX Right Post Central               | 5.32*   | 0.13 | 0.13 |
| CTX Right Posterior Cingulate        | 4.16    | 0.36 | 1.04 |
| CTX Right Precuneus                  | 8.57*   | 1.30 | 1.12 |
| CTX Right Rostral Anterior Cingulate | 9.78*   | 0.00 | 1.41 |
| CTX Right Rostral Middle Frontal     | 4.47    | 0.08 | 0.70 |
| CTX Right Superior Frontal           | 13.57*  | 0.38 | 0.49 |
| CTX Right Superior Temporal          | 7.90*   | 0.47 | 0.00 |
| CTX Right Insula                     | 3.11    | 2.10 | 0.16 |

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All areas reported have greater fMRI activation for high-energy food stimuli than low-energy food

stimuli. (\*P<0 .05; \*\*P<0.001; R = Right; L = Left)

ME Stimulus = high energy vs. low energy.

ME Time = morning vs. evening.

ROI = region of interest