

Table 3

Brain Perfusion during Smoking cue exposure relative to non-Smoking cue exposure

| Region | All N = 26 | | | | 9-repeat carriers > 10/10-repeats | | | | 9-repeat carriers N = 9 | | | | 10/10-repeats N = 17 | | | |
|-------------------------|---------------|-----|----|--------|--------------------------------------|-----|-----|-------|----------------------------|-----|-----|--------|-------------------------|-----|-----|--------|
| | X | Y | Z | T Val | X | Y | Z | T Val | X | Y | Z | T Val | X | Y | Z | T Val |
| <u>Increases</u> | | | | | | | | | | | | | | | | |
| VS/mOFC Bilateral | -6 | 28 | 18 | 3.77 | | | | | -6 | 22 | -8 | 5.47 | | | | |
| VS mOFC | | | | | -4 | 4 | -6 | 3.12 | | | | | 16 | 50 | -6 | 4.96 |
| | | | | | 8 | 46 | -28 | 3.19 | | | | | | | | |
| Middle Frontal G | | | | | -44 | -4 | 52 | 3.21 | | | | | 46 | -6 | 60 | 4.41 |
| Middle Frontal G | | | | | | | | | -36 | 32 | 46 | 4.55 | | | | |
| Inferior Temp G | | | | | 52 | -26 | -24 | 3.00 | | | | | | | | |
| D M Insula | | | | | | | | | | | | | -38 | -4 | 14 | 3.76 |
| Anterior Cingulate | | | | | | | | | | | | | -4 | 44 | -4 | 2.99 |
| DLPFC | | | | | 30 | 66 | 12 | 3.56 | 32 | 64 | 8 | 4.87 | | | | |
| Lat OFC | | | | | | | | | 42 | 42 | -16 | 3.83 | | | | |
| Fusiform | | | | | 40 | -28 | -30 | 3.12 | | | | | | | | |
| <u>Decreases</u> | | | | | | | | | | | | | | | | |
| | X | Y | Z | T Val | | | | | X | Y | Z | T Val | X | Y | Z | T Val |
| D P Insula | 62 | -26 | 14 | - 5.10 | | | | | | | | | | | | |
| D P Insula | -60 | -14 | 2 | - 4.69 | | | | | | | | | | | | |
| D P Insula | | | | | | | | | | | | | 58 | -30 | 18 | - 6.13 |
| D M Insula | | | | - 4.69 | -38 | -4 | 14 | -4.12 | -32 | 8 | 10 | - 3.64 | -50 | -34 | 12 | - 5.15 |
| D M Insula | | | | | | | | | -50 | 0 | 4 | - 4.06 | | | | - 6.13 |
| P Cingulate M | 2 | -44 | 52 | - 4.02 | | | | | | | | | | | | |
| Lat OFC | | | | | | | | | | | | | 26 | 62 | -12 | - 3.89 |
| Parahippocampal G | | | | | | | | | | | | | -48 | -6 | 46 | - 3.74 |
| | | | | | | | | | | | | | -44 | -34 | -24 | - 3.71 |
| | | | | | | | | | | | | | 40 | -24 | -30 | - 4.29 |
| Inferior Frontal G | | | | | | | | | -38 | 18 | 28 | - 3.70 | 56 | 24 | 6 | - 3.72 |
| M Temporal G | | | | | | | | | -48 | -52 | 2 | - 4.23 | | | | |

Abbrev: D, dorsal; DLPFC, dorsolateral prefrontal cortex; G, gyrus; Inf, inferior; Lat, lateral; M, middle; P, posterior; Temp, temporal; VS/mOFC, ventral striatum/medial orbitofrontal cortex. Coordinates are in MNI. T values are from the suprathreshold voxel in the cluster.