

Supplementary Table 3. Peaks of Activity during Imitation of Emotional Expressions

| Anatomical Region | BA | H | TD Group | | | | ASD Group | | | | TD > ASD | | | |
|-------------------------|----|---|----------|-----|-----|------|-----------|-----|-----|-------|----------|-----|-----|------|
| | | | x | y | z | t | x | y | z | t | x | y | z | t |
| Central Sulcus | 4 | L | -44 | -6 | 44 | 4.93 | -52 | -16 | 38 | 5.24 | | | | |
| | 4 | R | 42 | -16 | 34 | 4.30 | 46 | -6 | 20 | 5.14 | | | | |
| Precentral Gyrus | 6 | L | -42 | -8 | 38 | 5.94 | -62 | 2 | 22 | 5.62 | | | | |
| | 6 | R | 48 | 0 | 20 | 5.21 | 56 | -2 | 14 | 3.63 | 54 | 8 | 6 | 3.32 |
| Medial Frontal Gyrus | 6 | R | 2 | 0 | 60 | 4.87 | | | | | | | | |
| Anterior Cingulate | 32 | R | 12 | 20 | 34 | 4.48 | | | | | 12 | 20 | 34 | 4.48 |
| Middle Frontal Gyrus | 9 | L | -36 | 40 | 26 | 4.89 | | | | | | | | |
| | 9 | R | 50 | 0 | 40 | 4.21 | | | | | | | | |
| Inferior Frontal Gyrus | 44 | L | -50 | 8 | 10 | 5.10 | | | | | -50 | 10 | 12 | 3.37 |
| | 44 | R | 54 | 10 | 8 | 5.38 | | | | | 56 | 10 | 14 | 3.25 |
| Inferior Frontal Gyrus | 45 | L | -40 | 20 | 2 | 4.14 | | | | | | | | |
| | 45 | R | 42 | 36 | 8 | 5.14 | | | | | | | | |
| Insula | | L | -36 | -4 | 10 | 5.32 | | | | | -36 | -2 | 14 | 5.22 |
| | | R | 36 | 2 | 4 | 4.00 | | | | | 26 | 14 | 12 | 3.46 |
| Postcentral Gyrus | 3 | L | -42 | -18 | 38 | 4.47 | -46 | -16 | 30 | 4.47 | | | | |
| | 2 | R | 58 | -12 | 20 | 4.21 | | | | | | | | |
| Supramarginal Gyrus | 40 | L | | | | | -34 | -38 | 52 | 5.08 | | | | |
| Superior Temporal Gyrus | 22 | L | -52 | 4 | 2 | 5.39 | | | | | | | | |
| | 22 | R | 48 | 12 | -4 | 5.02 | | | | | | | | |
| Temporal pole | 38 | R | 28 | 4 | -24 | 4.78 | | | | | | | | |
| Fusiform Gyrus | 37 | L | -34 | -62 | -18 | 5.40 | -44 | -50 | -14 | 4.45 | | | | |
| | 37 | R | 30 | -62 | -16 | 4.68 | 34 | -50 | -12 | 3.70 | | | | |
| Lingual Gyrus | 18 | L | -18 | -78 | -12 | 4.68 | -8 | -72 | 4 | 5.57 | | | | |
| | 18 | R | 6 | -74 | -4 | 5.13 | 10 | -80 | 2 | 5.05 | | | | |
| Middle Occipital Gyrus | 19 | L | -44 | -64 | -4 | 6.05 | -26 | -66 | -4 | 4.48 | | | | |
| | 19 | R | 40 | -70 | -4 | 5.31 | 26 | -66 | 0 | 3.97 | | | | |
| Amygdala | | L | -18 | -10 | -8 | 5.06 | -20 | -12 | -8 | 2.18* | -22 | -6 | -8 | 3.41 |
| | | R | 18 | -8 | -8 | 4.56 | 20 | -4 | -12 | 3.75 | 30 | -4 | -16 | 2.93 |
| Hippocampus | | L | -36 | -12 | -8 | 4.50 | | | | | -40 | -14 | -12 | 4.00 |
| | | R | 32 | -12 | -8 | 4.54 | | | | | 36 | -18 | -8 | 3.96 |
| Caudate | | R | 16 | 4 | 8 | 6.82 | | | | | 10 | 6 | 6 | 4.02 |
| Putamen | | L | -28 | -10 | 8 | 6.17 | | | | | | | | |
| | | R | 20 | -4 | 8 | 5.34 | | | | | 30 | -24 | 0 | 4.38 |
| Thalamus | | L | -14 | -24 | 14 | 6.13 | | | | | -32 | -32 | 6 | 4.95 |
| | | R | 4 | -18 | 12 | 5.89 | | | | | | | | |
| Cerebellum | | L | -30 | -58 | -22 | 4.77 | -34 | -68 | -16 | 3.94 | | | | |
| | | R | 26 | -66 | -20 | 4.83 | 28 | -52 | -20 | 3.63 | | | | |

$P < 0.05$, corrected for multiple comparisons, cluster level, $P < 0.01$, voxel level; *Small Volume Correction. BA refers to putative Brodmann Area; L and R refer to left and right hemispheres; x, y, and z refer to the Talairach coordinates corresponding to the left-right, anterior-posterior, and inferior-superior axes, respectively; t refers to the highest t score within a region.