Supplementary Material

Table S1

Whole Brain Group Differences per Condition of the Trust Game

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Condition | Region | | Cluster size | | | MNI coordinates  X Y Z | | | | | Hemi-  sphere | | *Z* | | *p* |
| *Cooperative repayment, CHR > controls* | | | | | | | | |  | | |  | | | | |
|  | | Frontal lateral gyrus | | 29 | 27 | | 13 | 33 | | R | | | 4.16 | .25 | | |
|  | |  | |  | 32 | | 16 | 25 | |  | | | 3.62 |  | | |
|  | | TPJ | | 15 | 42 | | -42 | 33 | | R | | | 4.20 | .71 | | |
|  | | Parahippocampus | | 19 | -33 | | -22 | -20 | | L | | | 4.61 | .54 | | |
|  | | Hippocampus | |  | -38 | | -15 | -18 | | L | | | 3.41 |  | | |
|  | | Posterior cingulate | | 11 | 10 | | -45 | 28 | | R | | | 3.62 | .87 | | |
| *Cooperative repayment, controls > FEP* | | | | | | |  |  | |  | | |  |  | | |
|  | | Precuneus | | 11 | -13 | | -42 | 5 | | L | | | 4.02 | .87 | | |
| *Unfair investment, CHR > controls* | | | | |  | |  |  | |  | | |  |  | | |
|  | | Frontal inferior gyrus | | 28 | 47 | | 21 | 28 | | R | | | 3.56 | .40 | | |
|  | | Frontal inferior gyrus | |  | 50 | | 16 | 35 | | R | | | 3.42 |  | | |
|  | | Temporal middle gyrus | | 19 | 52 | | -62 | 23 | | R | | | 4.13 | .15 | | |
|  | | TPJ | | 13 | 50 | | -65 | 33 | | R | | | 3.21 |  | | |
|  | | TPJ | | 25 | 57 | | -40 | 35 | | R | | | 3.62 | .48 | | |
|  | |  | |  | 50 | | -45 | 38 | | R | | | 3.15 |  | | |
|  | | Middle cingulate | | 23 | 2 | | -40 | 40 | | R | | | 3.69 | .54 | | |
|  | | Posterior cingulate | | 29 | -1 | | -47 | 23 | | L | | | 3.85 | .38 | | |
|  | | Precuneus | |  | 7 | | -45 | 20 | | R | | | 3.53 |  | | |
| *Unfair investment, CHR > FEP* | | | |  |  | |  |  | |  | | |  |  | | |
|  | | Postcentral | | 28 | 35 | | -22 | 10 | | R | | | 4.06 | .40 | | |
| *Unfair repayment, FEP > controls* | | | |  |  | |  |  | |  | | |  |  | | |
|  | | Supra marginal gyrus | | 28 | 60 | | -20 | 40 | | R | | | 4.45 | .29 | | |
|  | | Postcentral gyrus | |  | 50 | | -20 | 35 | | R | | | 3.31 |  | | |
|  | | Superior temporal pole | | 12 | 50 | | 16 | -15 | | R | | | 4.24 | .84 | | |
|  | | Occipital middle gyrus | | 13 | 30 | | -80 | 35 | | R | | | 3.43 | .80 | | |
|  | | Occipital superior gyrus | |  | 25 | | -82 | 25 | | R | | | 3.33 |  | | |
| *Unfair repayment, FEP > CHR* | | | |  |  | |  |  | |  | | |  |  | | |
|  | | Occipital middle gyrus | | 16 | -26 | | -85 | 3 | | L | | | 3.62 | .68 | | |
|  | | Occipital inferior gyrus | | 21 | 40 | | -85 | 0 | | R | | | 3.60 | .49 | | |
|  | | Occipital middle gyrus | |  | 35 | | -87 | 8 | | R | | | 3.36 |  | | |
|  | | Occipital middle gyrus | | 10 | 30 | | -80 | 35 | | R | | | 3.52 | .91 | | |
| *Unfair repayment, CHR > controls* | | | |  |  | |  |  | |  | | |  |  | | |
|  | | Lingual gyrus | | 10 | -1 | | -70 | -5 | | L | | | 3.80 | .91 | | |
| *Unfair repayment, CHR > FEP* | | | |  |  | |  |  | |  | | |  |  | | |
|  | | Middle cingulate | | 14 | 20 | | -22 | 45 | | R | | | 3.97 | .76 | | |
| *Cooperative repayment > unfair repayment, CHR > controls* | | | | | | | | | |  | | |  |  | | |
|  | | Frontal middle gyrus | | 23 | 35 | | 26 | 23 | | R | | | 3.61 | .39 | | |
|  | | Frontal inferior operculum | |  | 32 | | 13 | 28 | | R | | | 3.42 |  | | |
| *Cooperative repayment > unfair repayment, CHR > FEP* | | | | | | | | | | | | |  |  | | |
|  | | Precuneus | | 39 | -3 | | -42 | 58 | | L | | | 3.98 | .01 | | |
| *Cooperative repayment > unfair repayment, controls > FEP* | | | | | | | | | | | | |  |  | | |
|  | | Occipital middle gyrus | | 15 | 30 | | -77 | 10 | | R | | | 3.58 | .7 | | |
|  | | Supplemental motor aria | | 14 | 2 | | -5 | 50 | | R | | | 3.62 | .74 | | |
|  | | Supplemental motor aria | |  | -3 | | -12 | 50 | | L | | | 3.34 |  | | |
| *Unfair investment > cooperative investment, CHR > controls* | | | | | | | | | | | | |  |  | | |
|  | | TPJ | | 11 | 50 | | -62 | 20 | | R | | | 3.62 | .9 | | |
|  | | ACC | | 13 | 7 | | 31 | 18 | | R | | | 3.83 | .85 | | |
|  | | Middle cingulate | | 46 | -3 | | -27 | 40 | | L | | | 3.56 | .14 | | |
|  | | Middle cingulate | |  | 5 | | -22 | 30 | | R | | | 3.51 |  | | |
|  | | Posterior cingulate | | 31 | 2 | | -47 | 20 | | R | | | 4.10 | .34 | | |
|  | | Precuneus | | 16 | 2 | | -52 | 38 | | R | | | 3.61 | .75 | | |
|  | | Precuneus | |  | -3 | | -50 | 50 | | L | | | 3.24 |  | | |
| *Unfair investment > cooperative investment, CHR > FEP* | | | | | | | | | | | | |  |  | | |
|  | | Occipital middle gyrus | | 16 | 27 | | -87 | 23 | | R | | | 3.68 | .75 | | |

*Note:* FEP = first episode psychosis; CHR = clinical high-risk; MNI = Montreal Neurological Institute; TPJ = temporo-parietal junction; ACC = anterior cingulate cortex. All contrasts reported were performed at an uncorrected *p* = .001, with a cluster-size threshold of *k* = 10.