Supplementary material

Supplementary Table: 1

Supplementary Figure:1

**Supplementary table 1.** Differences in the RSFC of amygdala subregions between HCs and MDD patients.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ROI** | **clusters** | **AAL** | **T value** | **MNI coordinates (Peak)a** | **pFDR-corr** |
| **X** | **Y** | **Z** |
| **left CMA** |  | **HC > MDD** |
| 113 | left insula | 5.33 | -33 | 15 | -3 | p<0.001  |
| 175 | right insula | 5.29 | 30 | -18 | -3 | p<0.001 |
| 126 | left putamen | 6.25 | -30 | -18 | -6 | p<0.001  |
| 35 | right SMA | 4.55 | 9 | 12 | 45 | 0.043 |
|  | **MDD > HC** |
| 120 | left postcentral gyrus | 4.67 | -42 | -36 | 66 | p<0.001  |
| **left LBA** |  | **MDD > HC** |
| 87 | left precuneus | 4.41 | -9 | -75 | 54 | 0.001 |
| 56 | right inferior temporal gyrus | 4.73 | 57 | -39 | -24 | 0.005 |
| **left SFA**  |  | **HC > MDD** |
| 191 | right putamen | 5.55 | 33 | 6 | 3 | p<0.001 |
| 105 | right DCG | 4.57 | 9 | 15 | 42 |  p<0.001  |
| 53 | left putamen | 3.84 | -24 | 18 | 6 | 0.010  |
| 38 | left IFGoperc | 4.43 | -51 | 9 | 6 | 0.033 |
| **right CMA** |  | **HC > MDD** |
| 330 | right cerebelum\_crus1  | 5.45 | 39 | -57 | -36 | p<0.001 |
| 123 | vermis\_1\_2  | 4.89 | 3 | -45 | -24 | p<0.001  |
| 53 | left ORBinf | 5.57 | -33 | 33 | -9 | 0.011 |
| 46 | left SFGdor | 4.58 | -24 | 60 | 21 | 0.016 |
|  | **MDD > HC** |  |
| 34 | right rolandic operculum | 4.47 | 42 | -24 | 21 | 0.048 |
| 72 | right superior occipital gyrus | 5.03 | 24 | -84 | 36 | 0.002 |
| 173 | left postcentral gyrus | 4.66 | -54 | -18 | 51 | p<0.001  |
| 90 | right postcentral gyrus | 4.22 | 48 | -30 | 60 | 0.001 |
| 110 | left PCL | 5.08 | 0 | -30 | 60 | p<0.001  |
| 111 | right postcentral gyrus | 5.31 | 30 | -39 | 69 | p<0.001 |
| **right SFA** |  | **HC > MDD** |  |  |  |  |  |
| 62 | right putamen | 5.00  | 33 | 6 | 3 | 0.005 |
| 100 | left putamen | 6.06 | -18 | -3 | 15 | 0.001 |

Abbreviations: RSFC: resting-state functional connectivity; MDD: Major depressive disorder; HCs: healthy controls; ROI: region of interest; AAL: Anatomical Automatic Labeling; FDR: false discovery rate.

SMA: the supplementary motor area; DCG: the median cingulate and paracingulate gyri; IFGoperc: the opercular part inferior frontal gyrus; ORBinf: the orbital part inferior frontal gyrus; SFGdor: the dorsolateral superior frontal gyrus; PCL: the paracentral lobule.

a: x, y, z = MNI (Montreal Neurological Institute) coordinates of significant effects.



**Supplementary Figure 1A-C** Regions showing significant group-by-time interaction effect in analysis (voxel-level p < 0.001, cluster-level p < 0.05 corrected by FDR). ORBsup：the orbital part superior frontal gyrus; MFG: the middle frontal gyrus. R: right.