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| **Supplementary Table 1. Gray matter volume alterations between BD II depression and healthy controls (HCs)** |
| **Brain Area(aal)** | **MNI coordinates a** | **Peak T** | **FDR q-value** | **Voxels** |
| **X** | **Y** | **Z** | **value b** |
| **BD II depression (150) < HCs** |  |  |  |  |  |  |
| Right inferior cerebellum | 28.5 | -55.5 | -63 | 4.159 | 0.004 | 230 |
| Left temporal pole | -28.5 | 15 | -37.5 | 4.9386 | 0.002 | 552 |
| Right temporal pole | 54 | 13.5 | -37.5 | 4.2564 | 0.003 | 94 |
| Left middle temporal gyrus | -61.5 | 3 | -31.5 | 4.6971 | 0.002 | 163 |
| Right superior frontal gyrus, medial | 9 | 54 | 46.5 | 5.0058 | 0.002 | 423 |
| Left middle frontal gyrus | -43.5 | 45 | 28.5 | 4.5025 | 0.002 | 397 |
| -39 | 61.5 | 1.5 | 5.2864 | 0.002 | 506 |
| Right middle frontal gyrus | 34.5 | 37.5 | 18 | 4.4239 | 0.002 | 242 |
| 40.5 | -3 | 55.5 | 4.1502 | 0.004 | 107 |
| Right middle frontal gyrus, orbital part | 39 | 55.5 | 0 | 5.1017 | 0.002 | 571 |
| Right inferior frontal gyrus, orbital part | 43.5 | 30 | -12 | 4.5202 | 0.002 | 269 |
| Left Inferior frontal gyrus, orbital part | -42 | 33 | -10.5 | 4.4736 | 0.002 | 192 |
| Left Inferior frontal gyrus, opercular part | -61.5 | 10.5 | 18 | 4.4172 | 0.002 | 83 |
| Right Inferior frontal gyrus, triangular part | 61.5 | 21 | 21 | 4.958 | 0.002 | 354 |
| Right insula | 39 | -6 | -10.5 | 4.0827 | 0.004 | 56 |
| Right caudate | 10.5 | 13.5 | 16.5 | 3.9716 | 0.005 | 283 |
| Left caudate | -2 | -6 | 14 | 5.17 | 0.002 | 815 |
| Left Rectus | -3 | 46.5 | -19.5 | 5.3012 | 0.002 | 808 |
| **Unmedicated BD II depression (75) < HCs** |  |  |  |  |  |  |
| Right inferior cerebellum | 30 | -60 | -60 | 4.6801 | 0.006 | 229 |
| Left temporal pole | -28.5 | 15 | -37.5 | 4.579 | 0.006 | 165 |
| Left inferior temporal gyrus | -61.5 | 0 | -31.5 | 4.6067 | 0.006 | 107 |
| Right superior frontal gyrus, medial | 6 | 52.5 | 46.5 | 4.7247 | 0.006 | 214 |
| Left middle frontal gyrus | -31.5 | 63 | 6 | 4.6215 | 0.006 | 316 |
| -43.5 | 45 | 28.5 | 4.3087 | 0.006 | 216 |
| Right middle frontal gyrus | 40.5 | -4.5 | 55.5 | 4.6341 | 0.006 | 117 |
| 39 | 55.5 | 0 | 4.6812 | 0.006 | 174 |
| Left middle frontal gyrus, orbital part | -1.5 | 67.5 | -9 | 4.3821 | 0.006 | 109 |
| Right middle frontal gyrus, orbital part | 25.5 | 37.5 | -13.5 | 4.6198 | 0.006 | 56 |
| Right Inferior frontal gyrus, triangular part | 61.5 | 21 | 21 | 4.6421 | 0.006 | 111 |
| Left rectus | -3 | 45 | -19.5 | 5.1545 | 0.006 | 498 |
| Right insula | 27 | 27 | 1.5 | 4.9037 | 0.006 | 93 |
| Left caudate | -6 | 19.5 | -1.5 | 4.2715 | 0.006 | 160 |
| Right caudate | -1.5 | -6 | 13.5 | 4.8986 | 0.006 | 39 |

a MNI coordinates of the voxel of maximal statistical significance within each region.

b Peak T value for the voxel of maximal statistical significance in each region.

Statistical significance after false discovery rate correction with p < 0.01 for multiple comparisons (peak level)