Supplementary Table 1. The cortical structures showing significant correlations **accounting for sex** between performance of divergent thinking and cortical thickness or surface areas in patients with bipolar disorder and controls.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ATTA | Max | Cluster size (mm^2) | TalX | TalY | TalZ | Corrected P value | Structure |
| *Cortical thickness* |  |  |  |  |  |  |  |
| BD |  |  |  |  |  |  |  |  |
|  | Fluency | -3.80 | 1530.0 | 29.4 | -86.0 | 4.4 | 0.000 | R. lateraloccipital |
| HC |  |  |  |  |  |  |  |  |
|  | Originality | 4.66 | 1188.9 | 36.4 | 30.2 | -2.2 | 0.004 | R. parstriangularis |
|  |  | 3.30 | 1757.6 | -26.2 | 10.4 | -14.0 | 0.000 | L. insula |
|  |  |  |  |  |  |  |  |  |
| *Surface area* |  |  |  |  |  |  |  |
| BD |  |  |  |  |  |  |  |  |
|  | **Total score** | **4.99** | **1322.7** | **14.2** | **41.0** | **13.9** | **0.023** | **R. superiorfrontal** |
|  | Flexibility | 3.23 | 2192.6 | 12.4 | 63.4 | -2.8 | 0.000 | R. superiorfrontal |
|  |  | 4.10 | 1634.1 | 12.2 | 42.7 | 15.9 | 0.005 | R. superiorfrontal |
| HC |  |  |  |  |  |  |  |  |
|  | **Total score** | **-3.44** | **1699.1** | **-41.1** | **31.8** | **-13.2** | **0.003** | **L. parsorbitalis** |
|  |  | **-3.37** | **1507.4** | **-9.3** | **-18.3** | **46.8** | **0.010** | **L. paracentral** |
|  | Originality | -3.07 | 1194.4 | -7.0 | -68.7 | 18.8 | 0.042 | L. cuneus |

Max = Maximum voxel-wise significance in cluster; Size = Surface area of cluster; TalX, TalY, TalZ = Talairach coordinate of maximum;

Supplementary Figure 1. A detailed description of participants enrollment process in this study.



Supplementary Figure 2. The patients with BD showed a significantly cortical thinning in left inferior temporal gyrus compared to HCs in this study.

