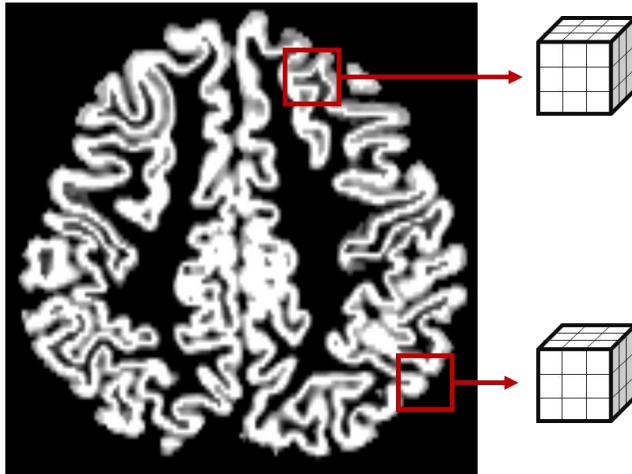


**Supplementary Table S1.** The anatomical regions of the automated anatomical labelling atlas AAL omitted from the local scale statistical analysis

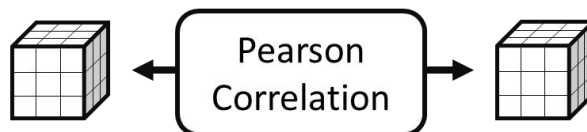
| Index | Side | Region                              | Index | Side | Region                              |
|-------|------|-------------------------------------|-------|------|-------------------------------------|
| 21    | L.   | Olfactory cortex                    | 96    | R.   | Lobule III of cerebellar hemisphere |
| 22    | R.   | Olfactory cortex                    | 107   | L.   | Lobule X of cerebellar hemisphere   |
| 35    | L.   | Posterior cingulate gyrus           | 108   | R.   | Lobule X of cerebellar hemisphere   |
| 36    | R.   | Posterior cingulate gyrus           | 109   |      | Lobule I, II of vermis              |
| 41    | L.   | Amygdala                            | 110   |      | Lobule III of vermis                |
| 42    | R.   | Amygdala                            | 112   |      | Lobule VI of vermis                 |
| 75    | L.   | Pallidum                            | 113   |      | Lobule VII of vermis                |
| 76    | R.   | Pallidum                            | 114   |      | Lobule VIII of vermis               |
| 79    | L.   | Heschl's gyrus                      | 115   |      | Lobule IX of vermis                 |
| 80    | R.   | Heschl's gyrus                      | 116   |      | Lobule X of vermis                  |
| 95    | L.   | Lobule III of cerebellar hemisphere |       |      |                                     |

**Supplementary Figure S1.** Schematic illustration of the single-subject grey matter (GM) network construction method applied in the study.

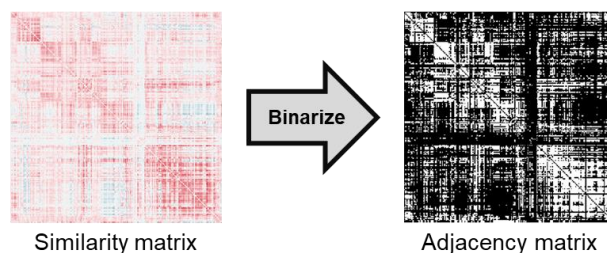
1. 3x3x3 voxel cubes are extracted from the GM segmented MRI volumes



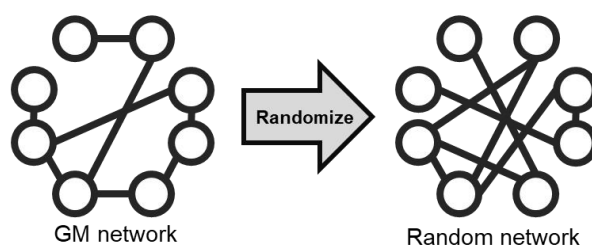
2. Correlation of the extracted cubes are computed to represent structural similarity



3. Similarity matrix is binarized to have 5% chance of spurious correlations. Binarized similarity matrix serves as the adjacency matrix



4. Random network is obtained from the GM network



5. Compute path length and clustering coefficient of the GM network and the random network to obtain small-world metric  $\sigma$