

Data:

1. Basic information of functional MRI scans, including participant ID, age, sex, and meanFD
Info_adult.mat
Info_child.mat
Note: Resting-state functional MRI (rsfMRI) data of all the participants are obtained from the Children School Functions and Brain Development project (CBD, Beijing Cohort).
Basic information is provided in the term of tables. In the column of sex, '0' and '1' denote female and male, respectively. Since some of the children underwent repeated rsfMRI scans, their ID labels are repeated in the tables according to the scanning order.
2. DMN parcellation for children and adults
DMN_parcellation_adult.nii
DMN_parcellation_child.nii
ROI_name.xls
Note: The DMN parcellation for the adults is modified from a prior atlas comprising 32 regions provided in Kernbach et al. (2018)
(<https://identifiers.org/neurovault.collection:3434>).
3. DMN connectivity matrix in children and adults
matrix_adult.mat
matrix_child.mat
Note: The functional connectivity matrices for all rsfMRI scans are stored in terms of a $N_{\text{node}} \times N_{\text{node}} \times N_{\text{scan}}$ matrix.

Codes:

1. Mixed effect model
Mixed_model.m
2. Age effects on functional connectivity
FCStrength_age.m
3. Age effects on global/local efficiency
NeLe_age.m
4. Age effects on nodal degree
Degree_age.m
5. Clustering based on divergent developmental rates of nodal degree
Clustering.m
Note: All network topology analyses and the multiple comparison correction were performed using GREYNET (www.nitrc.org/projects/gretna) (Wang et al., 2015).