

Under between subject contrast, open the dropdown menu

MATLAB R2016a - academic use

CONN functional connectivity toolbox (17.a)

Project Tools Help Setup Denoising first-level Analyses **second-level Results**

Second-level design

ANALYSIS_03

Subject effects	Conditions	Seeds/Sources
AllSubjects	rest	Atlas.Pallidum l
controls	rest x FrequencyBand1	Atlas.Hippocampus r
scoliosis	rest x FrequencyBand2	Atlas.Hippocampus l
gender	rest x FrequencyBand3	Atlas.Amygdala r
age	rest x FrequencyBand4	Atlas.Amygdala l

user-defined contrast

- Simple main effect of controls
- Simple main effect of scoliosis
- Simple main effect of gender
- Simple main effect of age
- Main effect of gender & age
- gender > age
- age > gender
- Any effect among gender or age
- Main effect of controls & scoliosis
- controls > scoliosis
- scoliosis > controls**
- Any effect among controls or scoliosis
- Any effect of interest
- Any effect of interest

between-conditions contrast

Effect of rest

Between-sources contrast

[1 0 0 0 1 0 0 0 1]

Any effect among dmn or

- contrast tools

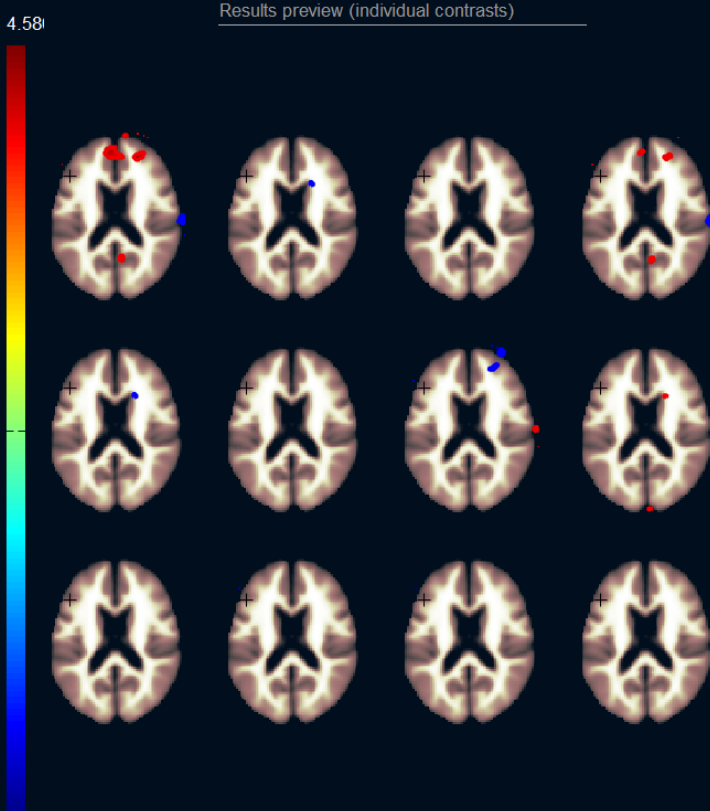
n=41

Results explorer

Results for all sources

Results preview (individual contrasts)

4.58



(individual contrasts) p-uncorrected < 0.001

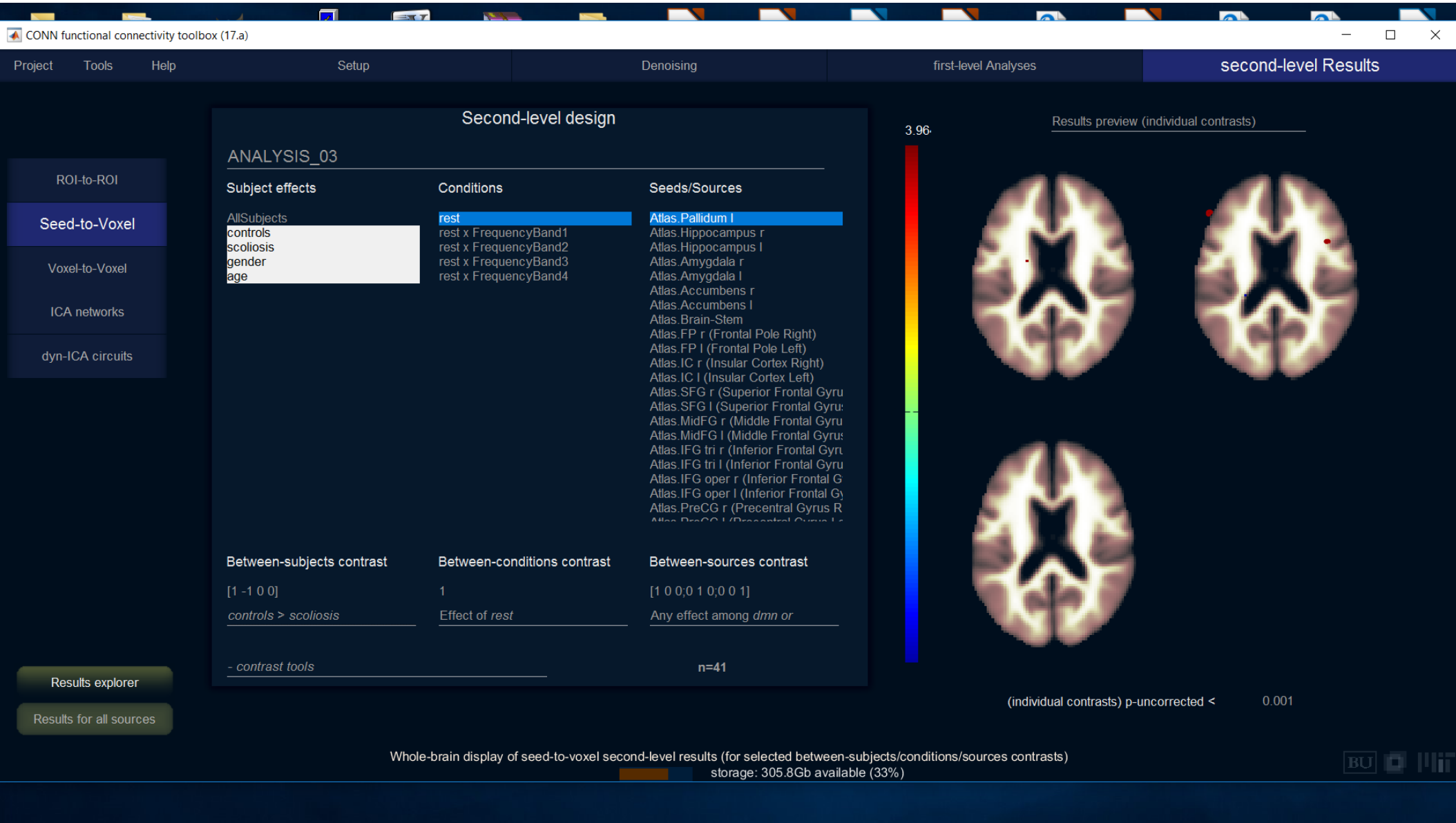
Project: C:\mind\data\Projects\rawData\scoliosis\conn-scoliosis.mat

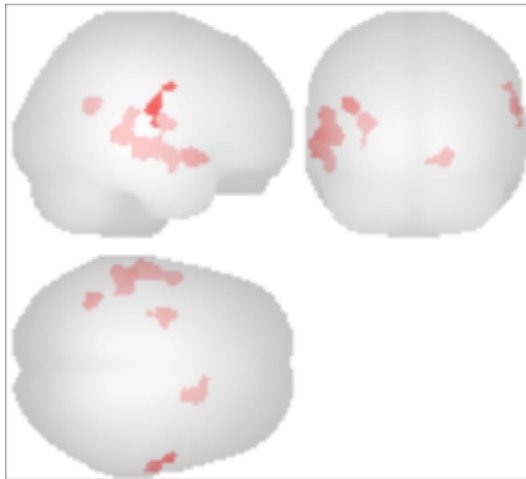
storage: 305.8Gb available (33%)

fx >>

Select contrast (control>patient)

Click in Result explorer boton

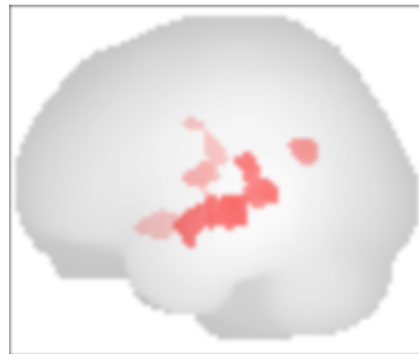




height threshold: p < 0.001
cluster threshold: p < 0.05

p-uncorrected
cluster-size p-FDR corrected

T(37)_min = 3.33
k_min = 97
positive contrast
parametric stats



279 voxels covering 20% of atlas.pMTG l (Middle Temporal Gyrus, posterior division)
96 voxels covering 24% of atlas.pSTG l (Superior Temporal Gyrus, posterior division)
85 voxels covering 9% of atlas.AG l (Angular Gyrus Left)
70 voxels covering 25% of atlas.aSTG l (Superior Temporal Gyrus, anterior division)
66 voxels covering 2% of atlas.PostCG r (Postcentral Gyrus Right)
65 voxels covering 12% of atlas.PT l (Planum Temporale Left)
53 voxels covering 12% of atlas.aMTG l (Middle Temporal Gyrus, anterior division)
46 voxels covering 3% of atlas.Forb r (Frontal Orbital Cortex Right)
45 voxels covering 5% of atlas.Putamen l
35 voxels covering 4% of atlas.Putamen r
33 voxels covering 2% of atlas.IC l (Insular Cortex Left)
31 voxels covering 5% of atlas.PO l (Parietal Operculum Cortex Left)
9 voxels covering 1% of atlas.SubCalC (Subcallosal Cortex)

Clusters (x,y,z)	size	cluster p-FWE	cluster p-FDR	cluster p-unc	peak p-FWE	peak p-unc
(-54 -36 +02)	733	0.000000	0.000000	0.000000	0.522822	0.000006
(+20 +08 -14)	174	0.003490	0.002722	0.000095	0.342301	0.000003
(-32 -10 +12)	129	0.018475	0.009678	0.000509	0.727761	0.000012
(-44 -54 +24)	109	0.040872	0.016243	0.001140	0.715477	0.000012
(+66 -16 +24)	97	0.066939	0.021575	0.001893	0.986991	0.000055

Output display options:

Surface display

Volume display

Slice display

SPM display

Export mask

Effect-sizes within significant clusters:

Import values

Display values

Results for all sources

Project: C:\mind\dataProjects\rawData-scoliosis\conn-scoliosis.mat
storage: 305.8Gb available (33%)