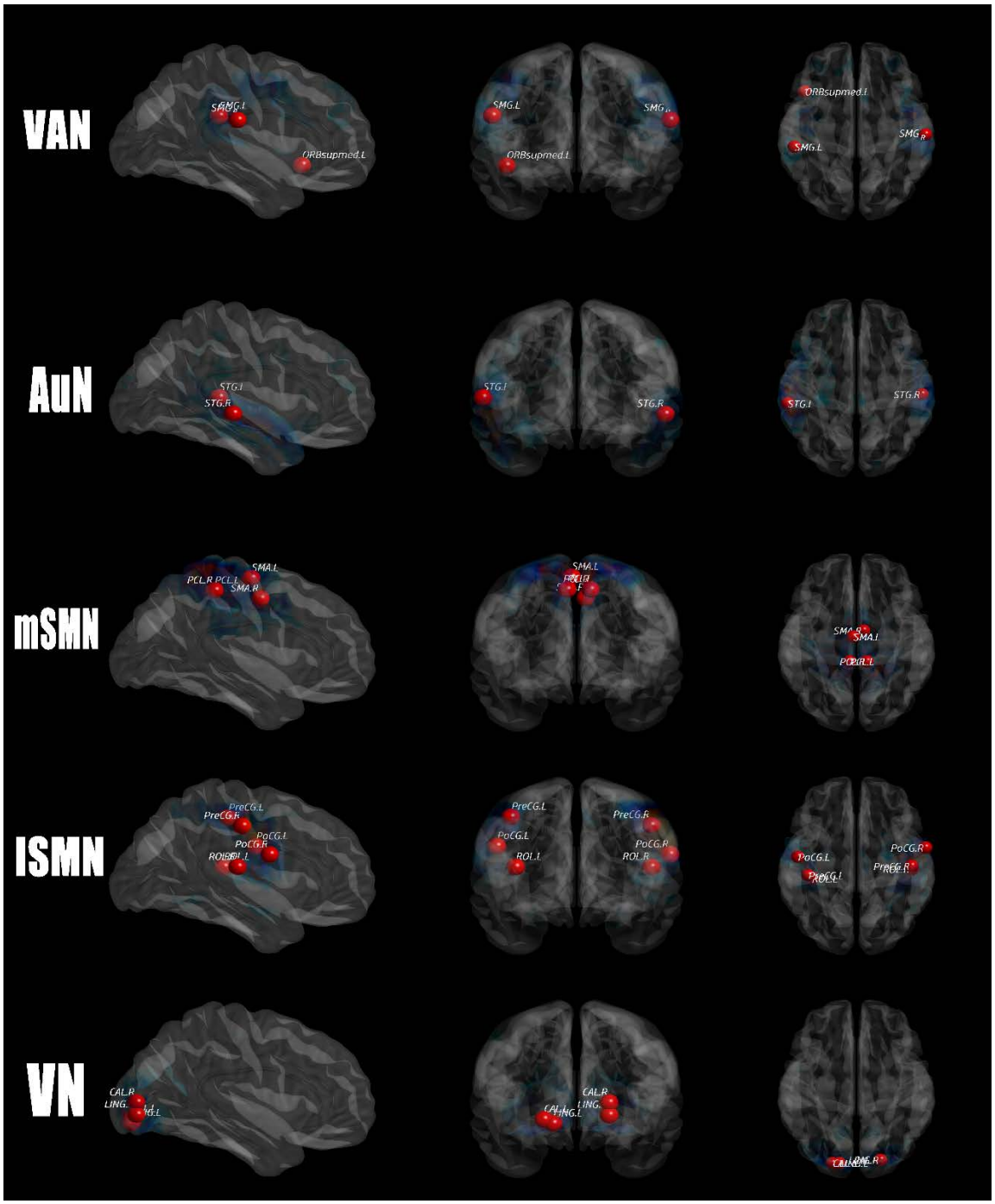
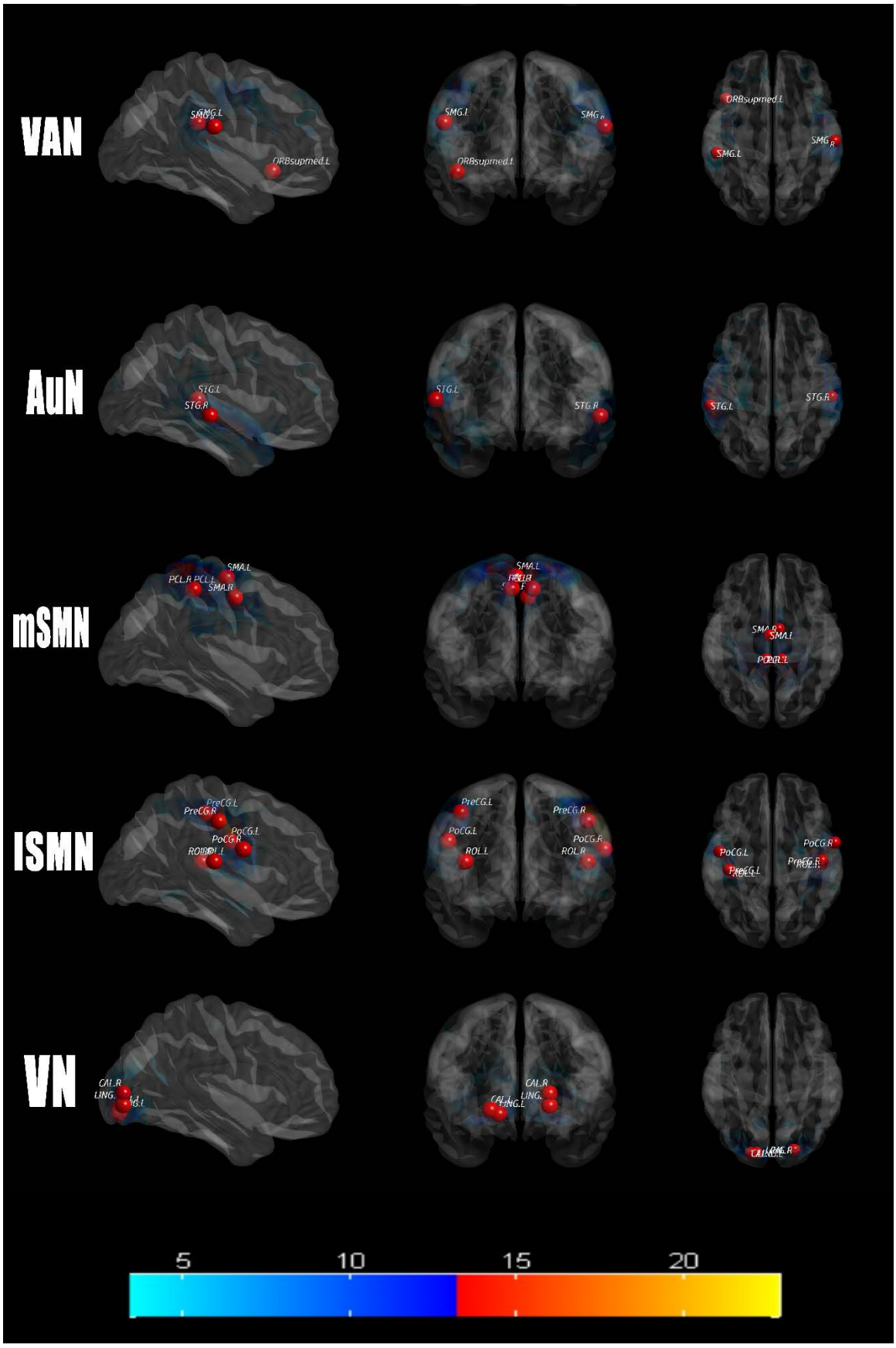
Supplementary Material

Different Functional Network Connectivity Patterns in Epilepsy: A Rest-state fMRI Study on Mesial Temporal Lobe Epilepsy and Benign Epilepsy with Centrotemporal Spike

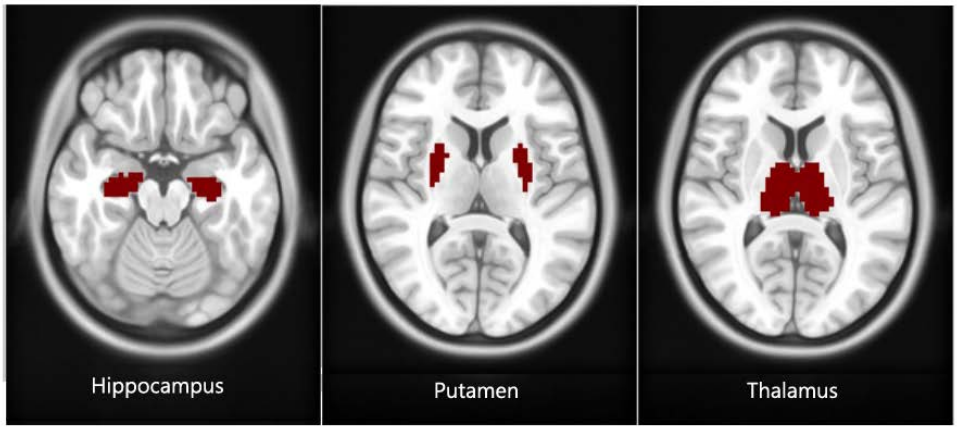
Supplemental Figure 1




VAN
SMG.L
ORBsupmed.L
SMG.L
SMG.R
ORBsupmed.L
ORBsupmed.L
SMG.L
SMG.R
AuN
STG.L
STG.R
STG.L
STG.R
STG.L
STG.R
mSMN
SMA.L
PCL.R
PCL.L
SMA.R
SMA.L
SMA.R
SMA.L
ISMN
PreCG.L
PreCG.R
PoCG.L
PoCG.R
PreCG.L
PreCG.R
PoCG.L
ROL.L
PoCG.R
ROL.R
PoCG.L
PoCG.R
VN
CAL.R
LING.
CAL.L
LING.L
CAL.R
LING.
CAL.L
LING.L
5
10
15
20

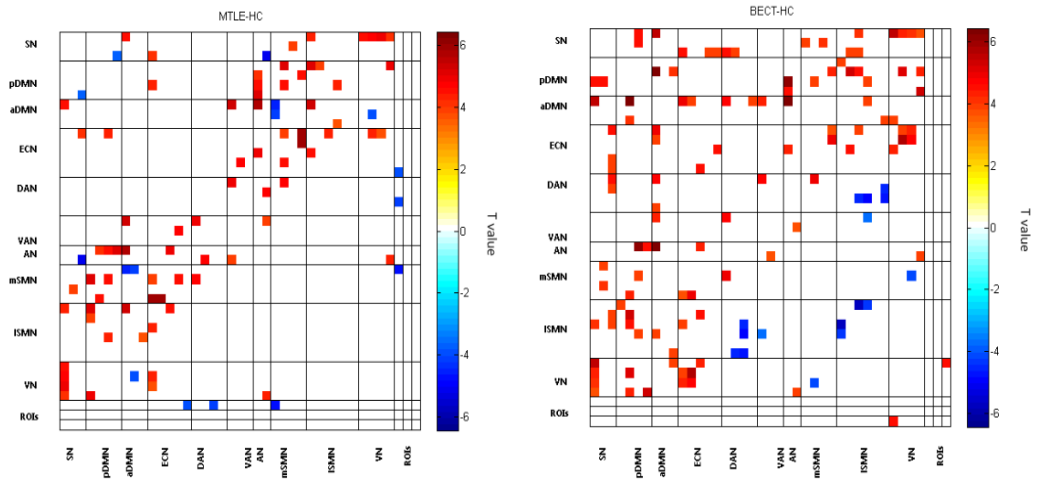
After selection by visual inspection and templates, 10 valuable components were identified. 38 regions of interest (ROIs) with a 6-mm radius sphere centred on the peak voxel in each hemisphere of RSNs. One-sample t-test showed a typical spatial pattern in each RSN, and the color bar showed the t-value in each RSN.

Supplemental Figure 2



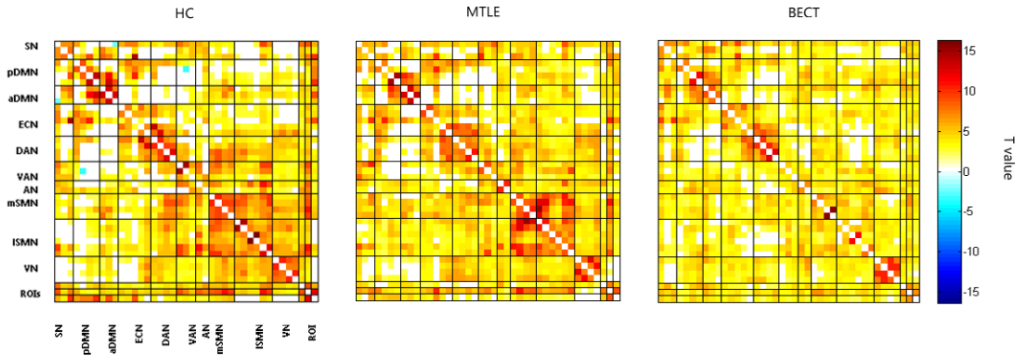
Subcortical regions of interest (ROIs) from Harvard-Oxford subcortical atlas underlaying on coronal plane of the MNI152 template. In the current study, hippocampus, putamen and thalamus abbreviated as Hip, Put and Tha respectively.

Supplemental Figure 3



Pairwise comparisons of seeds functional connectivity in MTLE-HC and BECT-HC. Values represent *t*-statistic between the seeds of 10 networks and the 3 subcortical regions of interest (ROIs: bilateral hippocampus, putamen and thalamus). Warmer colors indicate that the disease group exhibited greater connectivity. Tests of statistical significance were based on two-sample *t*-tests corrected for multiple comparisons with a network-based statistic (NBS) threshold set to 0.05.

Supplemental Figure 4



Seed-level resting state connectivity for the 3 groups. Values represent *t*-statistics based on the averaged *z*-transformed correlations between the 41 seeds of interest (see Supplemental Table 1 for specific coordinates on the seeds). Network labels are shown in the bottom left panel and are identical across all subplots. Tests of statistical significance were based on one-sample *t*-tests corrected for multiple comparisons with a network-based statistic (NBS) threshold set to 0.05.

Supplemental Table 1

Functional networks	MTLE	BECT	HC
SN	**0.27**	**0.38**	**0.29**
pDMN	**0.27**	**0.35**	**0.27**
aDMN	**0.50**	**0.55**	**0.52**
ECN	**0.33**	**0.44**	**0.33**
DAN	**0.43**	**0.55**	**0.42**
VAN	**0.34**	**0.34**	**0.32**
AN	**0.32**	**0.31**	**0.22**

mSMN	**0.50**	**0.56**	**0.53**
lSMN	**0.44**	**0.41**	**0.47**
VN	**0.67**	**0.70**	**0.85**

Pearson’s correlations values by Fisher z transformation within each functional network.