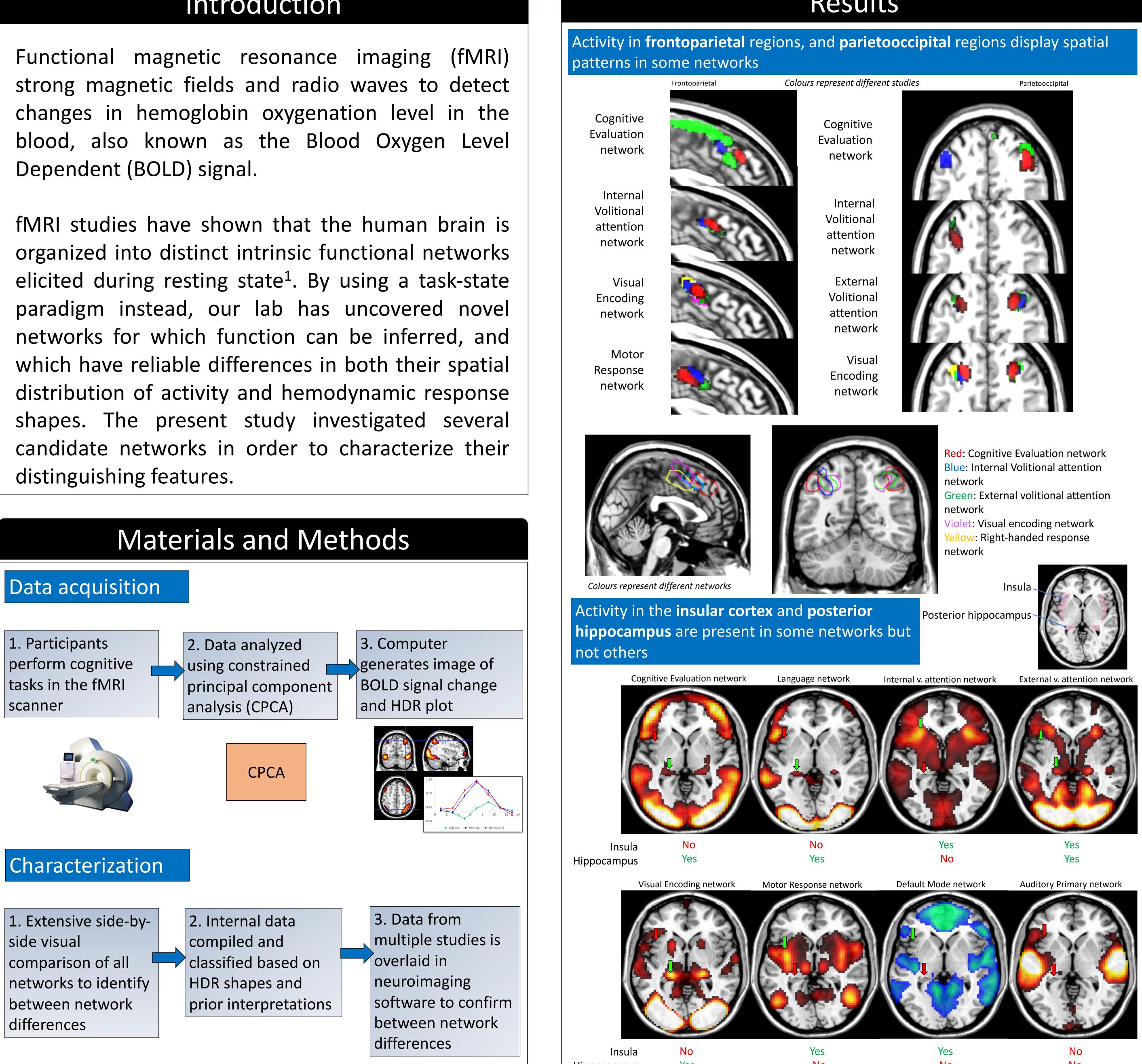


Spatial patterns of BOLD signal activation useful for identification and classification of task-state functional brain networks

Introduction



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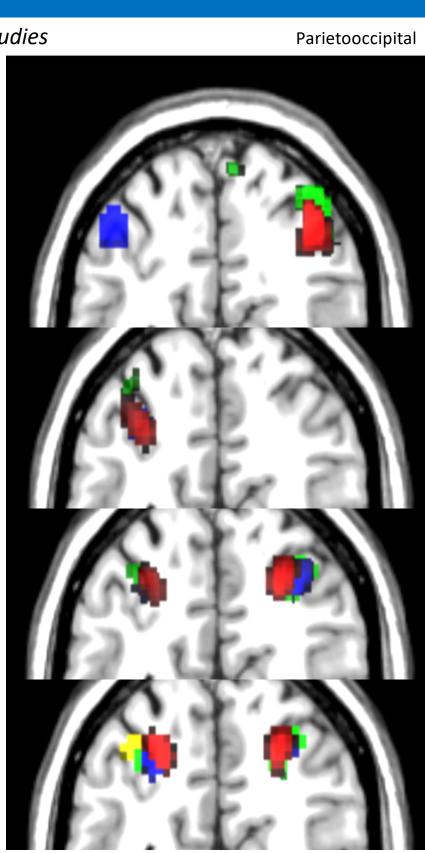
Results

Hippocampus

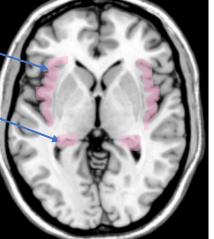
Yes

No

Caleb Ritchie², Todd Woodward^{1,2}







No

- on
- absence of hippocampus/insula into the function of the networks.
- to classify networks.
- occipital pole, and the cerebellum.

[1] Yeo, BT, et al. (2011) The organization of the human cerebral cortex estimated by intrinsic functional connectivity. J Neurophysiology, 106, 1125-1165.

This work was performed within the BC Mental Health and Addictions Research Institute



Conclusions

Spatial patterns: Visual comparison of each network provide evidence that task-state networks can be reliably differentiated based relative spatial activation in medial frontoparietal and parietooccipital regions.

Presence/absence of activity: Presence or activity in the posterior is useful for differentiation and also provides some insight

Anatomic signatures: By combining features from all four of these regions, unique anatomical signatures can be devised in order

Limitations: (1) spatial differences are defined visually and currently cannot undergo statistical analysis. (2) Relatively few studies were used in the comparison of networks.

Future work: Other regions of potential importance include the mid frontal pole,

References

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