



Summary:

The Center for Biomedical Research Excellence (COBRE) is contributing raw anatomical and functional MR data from 72 patients with Schizophrenia and 75 healthy controls (ages ranging from 18 to 65 in each group). All subjects were screened and excluded if they had: history of neurological disorder, history of mental retardation, history of severe head trauma with more than 5 minutes loss of consciousness, history of substance abuse or dependence within the last 12 months. Diagnostic information was collected using the Structured Clinical Interview used for DSM Disorders (SCID).

A multi-echo MPRAGE (MEMPR) sequence was used with the following parameters: TR/TE/TI = 2530/[1.64, 3.5, 5.36, 7.22, 9.08]/900 ms, flip angle = 7°, FOV = 256x256 mm, Slab thickness = 176 mm, Matrix = 256x256x176, Voxel size = 1x1x1 mm, Number of echos = 5, Pixel bandwidth = 650 Hz, Total scan time = 6 min. With 5 echoes, the TR, TI and time to encode partitions for the MEMPR are similar to that of a conventional MPRAGE, resulting in similar GM/WM/CSF contrast.

Rest data was collected with single-shot full k-space echo-planar imaging (EPI) with ramp sampling correction using the intercommissural line (AC-PC) as a reference (TR: 2 s, TE: 29 ms, matrix size: 64x64, 32 slices, voxel size: 3x3x4 mm³).

Slice Acquisition Order:

Rest scan - collected in the Axial plane - series ascending - multi slice mode - interleaved
MPRAGE - collected in the Sag plane - series interleaved - multi slice mode - single shot

The following data are released for every participant:

- Resting fMRI
- Anatomical MRI
- Phenotypic data for every participant including: gender, age, handedness and diagnostic information.

Investigators

Cheryl Aine, PhD; Vincent Calhoun, PhD; Jose Canive, MD; Faith Hanlon, PhD; Rex Jung, PhD; Kent Kiehl, PhD; Andrew Mayer, PhD; Nora Perrone-Bizzozero, PhD; Julia Stephen, PhD; and Claudia Tesche, PhD

Funding:

The imaging data and phenotypic information was collected and shared by the Mind Research Network and the University of New Mexico funded by a National Institute of Health Center of Biomedical Research Excellence (COBRE) grant 1P20RR021938-01A2

Publications - The following are a selection of representative publications from the COBRE group:

- A. R. Mayer, D. Ruhl, F. Merideth, J. Ling, F. M. Hanlon, J. Bustillo, and J. Canive, "Functional imaging of the hemodynamic sensory gating response in schizophrenia," Human brain mapping, Mar 28 2012.
- Stephen, J. M. et al. Using Joint ICA to Probe the Structure/Function Relationship using MEG and DTI with Auditory and Visual Stimuli in Schizophrenia. NeuroImage To be re-submitted (2012).
- Hanlon, F. M., Houck, J. M., Pyeatt, C. J., Lundy, S. L., Euler, M. J., Weisend, M. P., Thoma, R. J., Bustillo, J. R., Miller, G. A., & Tesche, C. D. (2011). Bilateral hippocampal dysfunction in schizophrenia. NeuroImage, 58, 1158-1168.
- Calhoun VD, Sui J, Kiehl KA, Turner JA, Allen EA, Pearlson GD. (2012): Exploring the Psychosis Functional Connectome: Aberrant Intrinsic Networks in Schizophrenia and Bipolar Disorder. Frontiers in Neuro-psychiatric Imaging and Stimulation 2:1-13, PMC Journal - In Process.

USAGE AGREEMENT

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Data Release Table

COBRE_scan_data.tgz	COBRE_parameters_rest.csv	COBRE_parameters_mprage.csv	COBRE_phenotypic_data.csv
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NITRC Download Instructions

In order to access the data, you must first register for an account with NITRC. After you have done so, click [here](#) to request access to the 1000 Functional Connectomes Project on NITRC. Users will be approved within 1 business day.

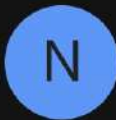
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1000 Functional Connectomes Project

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This is the parent project for ABIDE, ADHD-200 (ADHD200), INDI, CORR, NKI-Rockland (NKI), Healthy Brain Network (HBN), Center for Biomedical Research Excellence (COBRE), Anatomical Tracings of Lesions After Stroke (ATLAS) and other projects.

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