OMEGA

OMEGA: The Open MEG Archive

README

For a detailed description of OMEGA and its contents, see **NisoEtAl2015_OMEGA.pdf**

You are free to use all data in OMEGA for research purposes; however, we ask that you please cite the following reference in your publications if you have used data from OMEGA:

Niso G, Rogers C, Moreau JT, Chen LY, Madjar C, Das S, Bock E, Tadel F, Evans A, Jolicoeur P, Baillet S. OMEGA: The Open MEG Archive. Neuroimage. 2015; Available from: http://dx.doi.org/10.1016/j.neuroimage.2015.04.028

//// DATA ORGANIZATION

The repository is divided into the MEG and MRI data and the questionnaires.

==== QUESTIONNAIRES ====

The version of the Questionnaire varies between subjects, however, general information such as age, gender, sex, handedness, etc. is almost always present.

* For a listing of MEG scan metadata associated with each subject, see subject_metadata/OMEGA_subject_README.csv

Below is a sample of the subject listing showing file name, basic metadata, and questionnaire version for each subject. Since some subjects may have participated in more than one session, age is listed as a key;value pair indicating {session;age}. In addition, the subjects have been grouped as either control (healthy participant) or patient (special-population particitipant).

There are 5 questionnaire versions in the 'subject_metadata' folder, where additional subject metadata is located. The OMEGA_subject_README.csv file acts as an index for looking up more details about individual subjects.

```
FileName,MNI ID,Group,{session;age},Year of birth,Gender,Dominant Hand,Questionnaire Version
sub-0001,MNI0001,Control,"{1;42,2;43,3;47}",1970,male,right,OLD_OMEGA General Screening Quesionnaire
sub-0007,MNI0007,Control,{1;20},1992,male,right,RETROSPECTIVE OMEGA General Screening Questionnaire
sub-0062,MNI0062,Control,"{1;37,2;37}",1980,male,right,OMEGA General Screening Questionnaire
```

==== MEG AND MRI DATA ====

Both the MEG data and the defaced MRI are saved inside every individual subject's folder.

There are 184 subjects in OMEGA grouped into folders, *sub0001-0040*, *sub0041-0080*, etc. where many subjects are grouped together. The subjects can be downloaded individually or an entire folder can be downloaded in bulk.

The individual zip files range from 0.5 to 4 GB in size. The folders range between 30-60 GB. Depending on your Internet bandwidth and workstation, download times can be long.

* If you experience problems with failed downloads, contact Ted Strauss, the BIC Manager of Data Resources, at ted.strauss@mcgill.ca

Subjects are organized in the following template:

```
sub<participant_label>/
   ses<label>/
      anat/
         defaced_t1.nii.gz
      meg/
         MNI<participant_label>_MEGs<study_label>noise_<acq_date>_run<index>.ds
         MNI<participant_label>_MEGs<study_label>resting_<acq_date>_run<index>.ds
```

//// HOW TO DOWNLOAD THE DATA

Instructions on how to download data sets from this repository:

1. INDIVIDUAL SUBJECTS: To download individual subjects, nagivate into a folder. Click file name to start downloading.

2. ENTIRE FOLDER WITH MANY SUBJECTS: To download an entire folder (compressed into a zip file), navigate into the folder and click the 'Download' button in the upper right of the page.

Note the subject numbers are not all in sequential order. Some subjects are missing at this time due to quality control issues. We hope to release those in the future.

* If you have a question, please contact Sylvain Baillet, OMEGA Principal Investigator at sylvain.baillet@mcgill.ca