

How To Access Subject Data via REST

For the [HCP 1200 Release](#), unprocessed and processed data for a subject can be accessed via REST calls apart from using other modes such as Connectome In a Box, Aspera, Amazon AWS.

In order to access data for a subject, you will need to register at <https://db.humanconnectome.org>

To get data via REST, in a script, you could use tools like curl.

Data organization

Details about file and folder organization are available [here](#).

USAGE

To download a particular file, say the minimally processed file, **T1w_acpc_dc_restore_1.25.nii.gz**, for a subject, say 100307, you could invoke curl as:

```
curl -u DB_LOGIN_ID_HERE:DB_PASSWORD_HERE -O
https://db.humanconnectome.org/data/archive/projects/HCP_1200/subjects/100307/experiments/100307_CREST/resources
/100307_CREST/files/T1w/T1w_acpc_dc_restore_1.25.nii.gz
```

The URI to get any file, for the subject 100307 in the HCP 1200 Release, would begin with:

```
https://db.humanconnectome.org/data/archive/projects/HCP_1200/subjects/100307/experiments/100307_CREST/resources
/100307_CREST/files
```

add the path to the file after this prefix to get a file. For example, if you want the file MNINonLinear/Results/rfMRI_REST1_LR/rfMRI_REST1_LR_Atlas.dtseries.nii, the URL would be:

```
https://db.humanconnectome.org/data/archive/projects/HCP_1200/subjects/100307/experiments/100307_CREST/resources
/100307_CREST/files/MNINonLinear/Results/rfMRI_REST1_LR/rfMRI_REST1_LR_Atlas.dtseries.nii
```

Bash Script snippet for getting files for a batch of subjects

```
DBHOST=https://db.humanconnectome.org
PROJECT=HCP_1200
REST_URL_PREFIX=${DBHOST}/data/archive/projects/${PROJECT}/subjects
#####
##
#
# GET a jsession
#
# Set
#
# MY_CURL_OPTIONS: Options that you may want to pass to curl such as --connect-timeout, --retry etc
# db_user: ConnectomeDB login id
# db_password: ConnectomeDB password
#
#
# subject_list_file: A File containing list of subject IDs
#
#####
##

jsession=`curl $MY_CURL_OPTIONS -u $db_user:$db_password $DBHOST`

while read line
do
    subject=$line
    subject_url_prefix=${REST_URL_PREFIX}/${subject}/experiments/${subject}_CREST/resources/${subject}_CREST/files
    file_relative_path=MNINonLinear/Results/rfMRI_REST1_LR/rfMRI_REST1_LR_Atlas.dtseries.nii
    curl $MY_CURL_OPTIONS -b "JSESSIONID=$jsession" -O $subject_url_prefix/$file_relative_path
done < $subject_list_file
```