

Accessing GTEx Data in dbGaP and the SRA

Taylor Young • The Broad Institute of MIT and Harvard (GTEx LDACC)



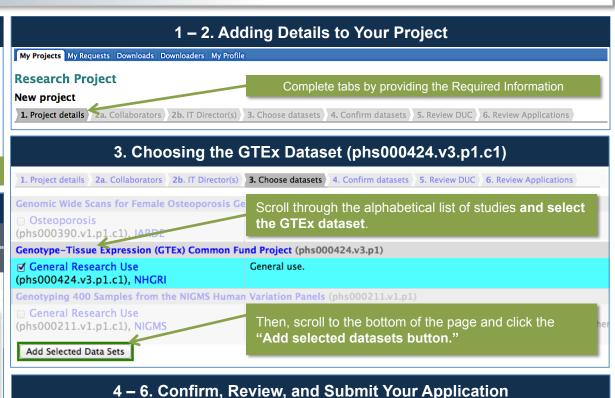
Required Information

- Research Use Statement
- Name of institution's signing official and IT director
- Decryption password (save this!)
- List of collaborators (all must have accounts at eRA Commons)
- GTEx accession number: phs000424.v3.p1.c1

GO TO: www.ncbi.nlm.nih.gov/gap



Click "Apply for Controlled Access Data" on the dbGaP homepage. Log in and follow instructions to create a new project.



1. Project details 2a. Collaborators 2b. IT Director(s) 3. Choose datasets 4. Confirm datasets 5. Review DUC 6. Review Applications

Wait for approval (~2 weeks). Once approved, log in and download your data (see Slides 2 and 3).



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Downloading Data from dbGaP

Required Materials:

- 1. Approved application for controlled access
- Username and password of PI or designated downloader
- 3. Decryption password (specified in the application)
- Aspera software (www.asperasoft.com)

GO TO: www.ncbi.nlm.nih.gov/gap

Click here

Access dbGaP Data

Apply for Controlled Access Data

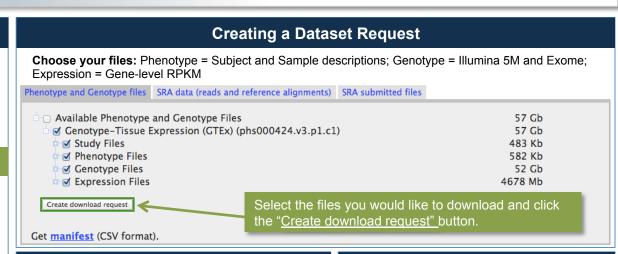
- Click "Apply for Controlled Access Data"
- 2. Log in to the authorized access system
- 3. Click on the "My Requests" tab

Phenotype, Genotype & Expression Data

on Fund Project (phs000424.v3.p1) 1.c1), NHGRI Click here

Request Files
Processing History

Click "Request Files" to create a request for data.



Downloading Your Datasets



software either through a web-browser or the 'ascp'

command line tool

Decrypting Your Datasets

You will also receive an email with a link to your data. This email will have a link to the **NCBI** provided decryption tools in the SRA toolkit.

- 2. NCBI Decryption Tools latest release binaries and md5 checksums*:
 - CentOS Linux 64 bit architecture
 - CentOS Linux 32 bit architecture
 - Ubuntu Linux 64 bit architecture
 - MacOS 64 bit architecture
 - MacOS 32 bit architecture
 MS Windows 64 bit architecture
 - MS Windows 32 bit architecture



Accessing GTEx Data in dbGaP and the SRA

Create download request

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Downloading BAMs from the SRA

Required Materials:

- Approved application for controlled access
- Username and password of PI or designated downloader
- Decryption password (specified in the application)
- Aspera software (www.asperasoft.com)

GO TO: www.ncbi.nlm.nih.gov/gap

Access dbGaP Data Click here Apply for Controlled Access Data

- Click "Apply for Controlled Access Data"
- Log in to the authorized access system
- Click on the "My Requests" tab

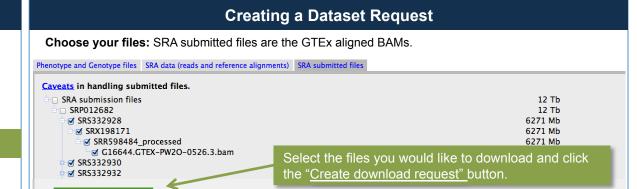
Phenotype, Genotype & Expression Data

n Fund Project (phs000424.v3.p1) L.c1), NHGRI

Click here

Click "Request Files" to create a request for data.

Request Files **Processing History**





Tips

- Download the manifest, it will indicate which files you've downloaded previously and help you
- find files specific to a subject or tissue site Mark the top level box for "SRP012682" if you want to select all files
- Use the "--overwrite=never" flag when downloading BAMs with the Aspera ascp command line tool to avoid downloading files
- that have been previously downloaded All BAMs that pass technical QC are submitted to the SRA, the Analysis Working Group defines a set of files that pass a more thorough QC