

# Importing a GEO / ENA project

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## How to import a study from GEO / ENA

If a project is publicly available in the Gene Expression Omnibus (GEO) and European Nucleotide Archive (ENA) databases, you can import associated FASTQ files, sample attributes, and project details automatically into Partek Flow.

- Click **Projects** at the top of the page
- Click **Import project**

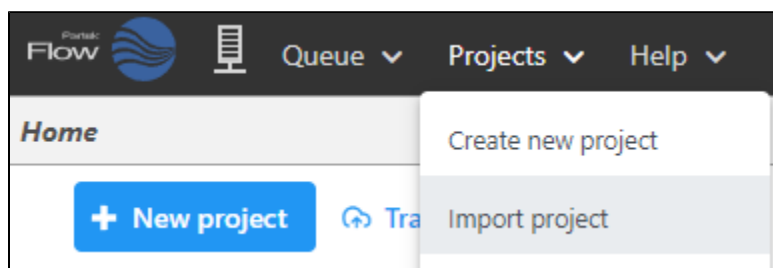


Figure 6. Importing project invoke

- Choose **GEO / ENA project** for *Select files from*
- Type the *BioProject ID* or the *GEO Accession number*

A screenshot of the 'Import project' dialog box. The 'Select files from' section has three radio buttons: 'Partek Flow Server', 'URL', and 'GEO / ENA project'. The 'GEO / ENA project' option is selected. Below this, the 'BioProject ID' field is highlighted with a red border and contains the text 'PRJNA381604'. The 'Download directory' section shows the path '/home/flow/FlowData/project\_output' with a search icon.

Figure 7. Enter the Bioproject ID in the Import project dialog

The format of a *BioProject ID* is *PRJNA* followed by one to six numbers (e.g., PRJNA291540). The format of a *GEO Accession number* is *GSE* followed by one to five numbers (e.g., GSE71578).

- Click **Import project** at the bottom

The **Analyses** tab will include an *Unaligned reads* data node once the data download has started (Figure 3). It may take a while for the download to complete depending on the size of the data. FASTQ files are downloaded from the ENA BioProject page.

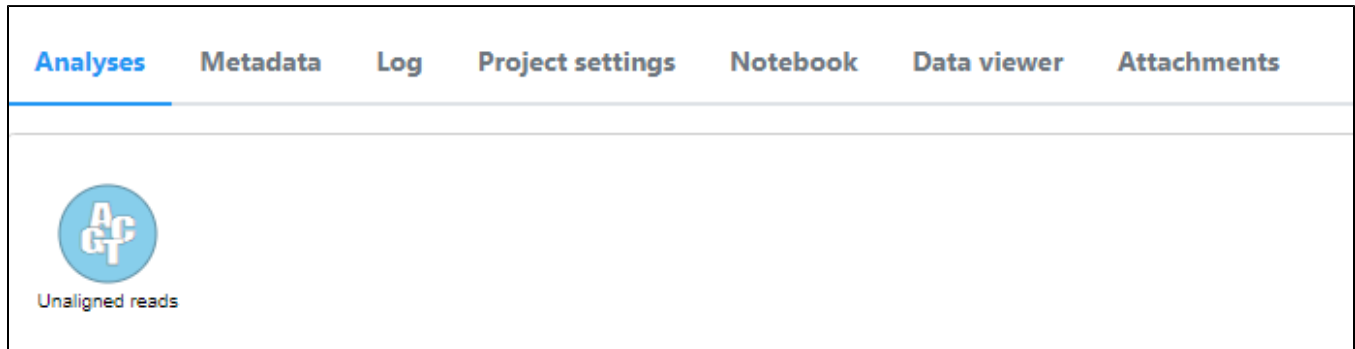


Figure 8. FASTQ files will be added as an Unaligned reads data node in the Analyses tab

## Common Issues

### Error Message - The project did not yield any data. Double-check the project ID, or try importing the data manually

If the study is not publicly available in both GEO and ENA, project import will not succeed.

### The project was imported, but the Analyses tab is empty and there are no FASTQ files

If there is an ENA project, but the FASTQ files are not available through ENA, the project will be created, but data will not be imported.

### Something is missing or the import failed

A variety of other issues and irregularities can cause imports to not succeed or partially succeed, including, but not limited to, a BioProject having multiple associated GSE IDs, incomplete information on the GEO or ENA page, and either the GEO or ENA project not being publicly available.

## FAQ

### What are GEO and ENA?

The Gene Expression Omnibus (GEO) and the European Nucleotide Archive (ENA) are web-accessible public repositories for genomic data and experiments. Access and learn more about their resources at their respective websites:

GEO - <https://www.ncbi.nlm.nih.gov/geo/>

ENA - <https://www.ebi.ac.uk/ena>

### How do I know if a GEO project is also in ENA?

You can search ENA using the GEO ID (e.g., GSE71578) to check if there is a matching ENA project (Figure 6).

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ENA

European Nucleotide Archive

Search

Examples: [BN000085](#) [histone](#)

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Search results for **GSE97388**

Show more data from EMBL-EBI

Study

Study (1)

Submission

Submission (Read/Analysis) (1)

Study (1 results found)

SRP103018

In vitro differentiation of human embryonic stem cells into ovarian follicle-like cells

View all 1 results

Submission (Read/Analysis) (1 results found)

SRA551479

Submitted by Gene Expression Omnibus on 05-JUL-2017

View all 1 results

Powered by [EBI Search](#)

Figure 9. Searching ENA using a GEO ID

Open the Study result to view the BioProject ID (e.g., PRJNA381606) and a table with information about the samples and files included in the project (Figure 7).

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ENA

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Advanced Sequence

Examples: BN000065, histone

Home

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Submit & Update

Software

About ENA

Support

Study: PRJNA381606

Contact Helpdesk

In vitro differentiation of human embryonic stem cells into ovarian follicle-like cells

View:

Project XML

Study XML

Download:

Project XML

Study XML

Name

Homo sapiens

Submitting Centre

Basic Medical Sciences, Tsinghua University

Organism

Homo sapiens

Secondary accession(s)

SRP103018

Description

Understanding the unique mechanisms of human oogenesis necessitates the development of an in vitro system of stem cell differentiation into oocytes. Specialized cell types and organoids have been derived from human pluripotent stem cells in vitro, but generating a human ovarian follicle remains a challenge. Here we report that human embryonic stem cells (hESCs) can be induced to differentiate into ovarian follicle-like cells in vitro. First, we find that two RNA-binding proteins specifically expressed in germ cells, DAZL and BOULE, regulate the exit from pluripotency and entry into meiosis. By expressing DAZL and BOULE with recombinant human GDF9 and BMP15, these meiotic germ cells are further induced to form ovarian follicle-like cells (FLCs), including oocytes and granulosa cells. This robust in vitro differentiation system will allow the study of the unique molecular mechanisms underlying human pluripotent stem cell differentiation into late PGCs, meiotic germ cells, and ovarian follicles. Overall design: Including 6 samples, 4 controls: ES\_1, ES\_2, SDE\_1, SDE\_2; 2 samples: FLC\_1 (HSF6), FLC\_2 (H9)

Lineage

Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Euarchontoglires, Primates, Haplorrhini, Catarrhini, Hominidae, Homo

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Download:

1

-

8

of 6 results in

TEXT

Select columns

Showing results 1 - 6 of 6 results

| Study accession | Sample accession | Secondary sample accession | Experiment accession | Run accession | Tax ID | Scientific name | Instrument model    | Library layout | FASTQ files (FTP) | FASTQ files (Galaxy) | Submitted files (FTP) | Submitted files (Galaxy) | NCBI SRA file (FTP) | NCBI SRA file (Galaxy) | CRAM Index files (FTP) | CRAM Index files (Galaxy) |
|-----------------|------------------|----------------------------|----------------------|---------------|--------|-----------------|---------------------|----------------|-------------------|----------------------|-----------------------|--------------------------|---------------------|------------------------|------------------------|---------------------------|
| PRJNA381606     | SAMN06681557     | SRS2098866                 | SRX2705208           | SRR5413258    | 9606   | Homo sapiens    | Illumina HiSeq 2500 | PAIRED         | File 1<br>File 2  | File 1<br>File 2     |                       |                          | File 1              | File 1                 |                        |                           |
| PRJNA381606     | SAMN06681556     | SRS2098867                 | SRX2705209           | SRR5413259    | 9606   | Homo sapiens    | Illumina HiSeq 2500 | PAIRED         | File 1<br>File 2  | File 1<br>File 2     |                       |                          | File 1              | File 1                 |                        |                           |

Figure 10. ENA Study page

## Additional Assistance

If you need additional assistance, please visit [our support page](#) to submit a help ticket or find phone numbers for regional support.



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27 rates