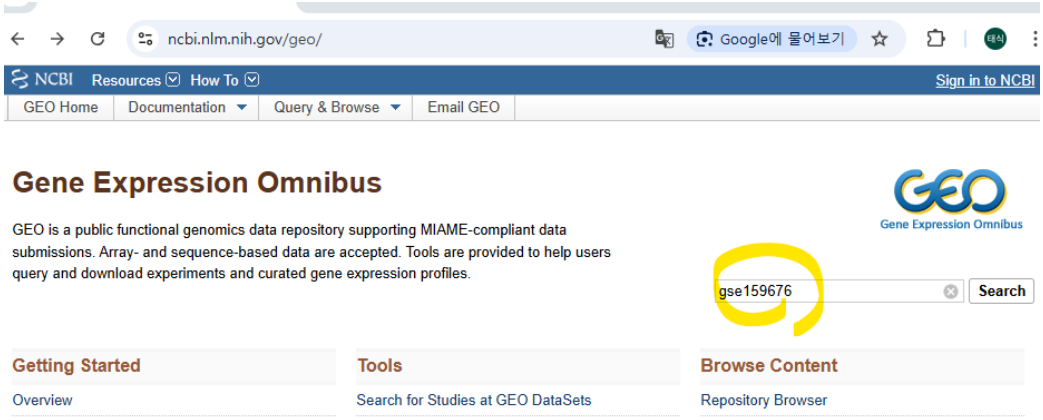
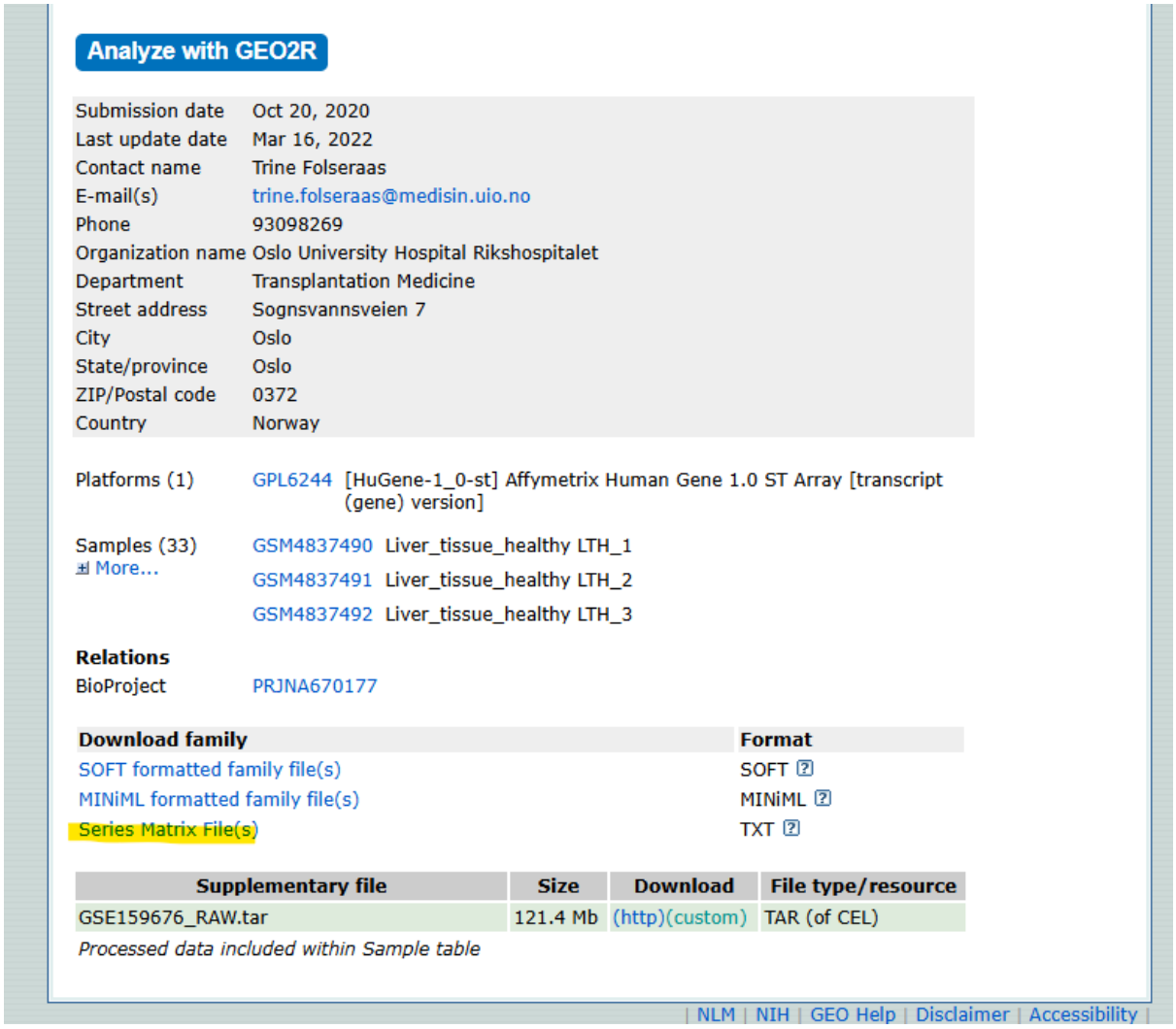
**Step for obtaining gene expression files**

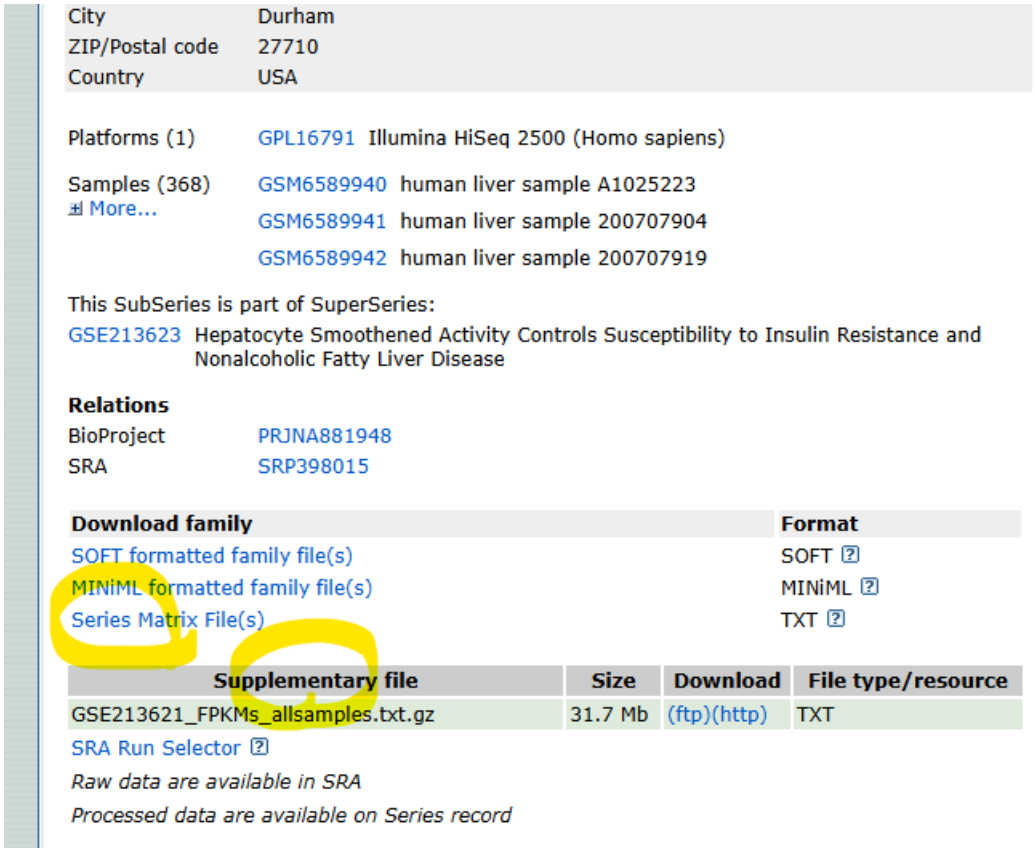
1) Access the specific dataset page by entering the Accession ID into the GEO database search bar.




2) For microarray data, click on the **Series Matrix File** entry to download the integrated file that combines gene expression data with sample metadata.



3) For RNA-seq data, click the **Series Matrix File** entry to retrieve sample metadata and download the gene expression file provided in the **Supplementary Files** section.



| | |
|---|---|
| City | Durham |
| ZIP/Postal code | 27710 |
| Country | USA |

Platforms (1) GPL16791 Illumina HiSeq 2500 (Homo sapiens)

Samples (368) GSM6589940 human liver sample A1025223
More... GSM6589941 human liver sample 200707904
GSM6589942 human liver sample 200707919

This SubSeries is part of SuperSeries:
GSE213623 Hepatocyte Smoothened Activity Controls Susceptibility to Insulin Resistance and Nonalcoholic Fatty Liver Disease

**Relations**

| | |
|---|---|
| BioProject | PRJNA881948 |
| SRA | SRP398015 |

| Download family | Format |
|---|---|
| SOFT formatted family file(s) | SOFT |
| MINiML formatted family file(s) | MINiML |
| Series Matrix File(s) | TXT |

| Supplementary file | Size | Download | File type/resource |
|---|---|---|---|
| GSE213621_FPKMs_allsamples.txt.gz | 31.7 Mb | (ftp)(http) | TXT |

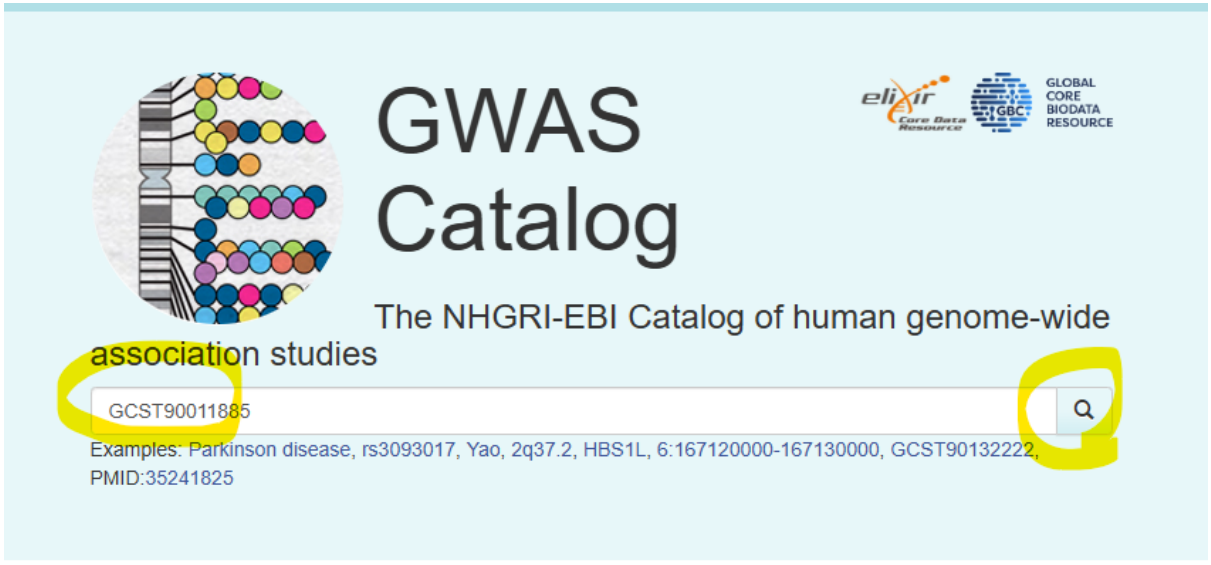
SRA Run Selector

*Raw data are available in SRA*

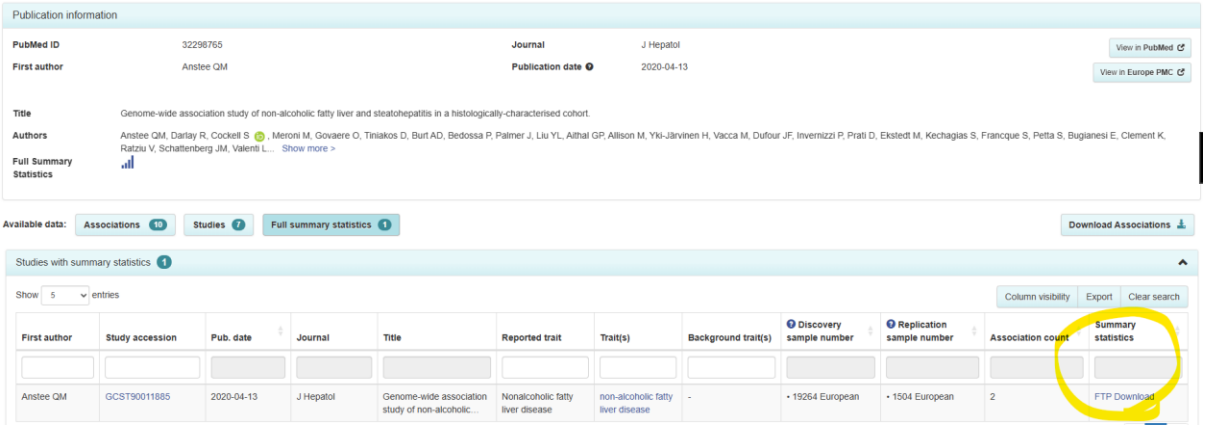
*Processed data are available on Series record*

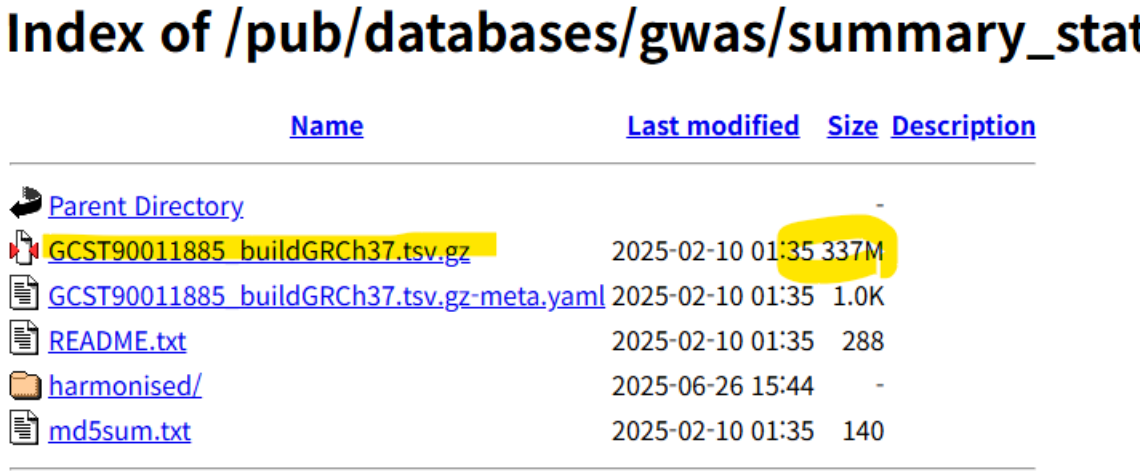
**Step for obtaining GWAS summary statistics**

1) Search for the Accession ID on the GWAS Catalog homepage to access the detailed information page for the corresponding cohort.



2) Click the FTP Download link located in the bottom-right section of the metadata to access the directory where the cohort dataset is stored.




3) Select and download the file with comparably large size, as datasets containing the complete SNP set typically exceed 300 MB.