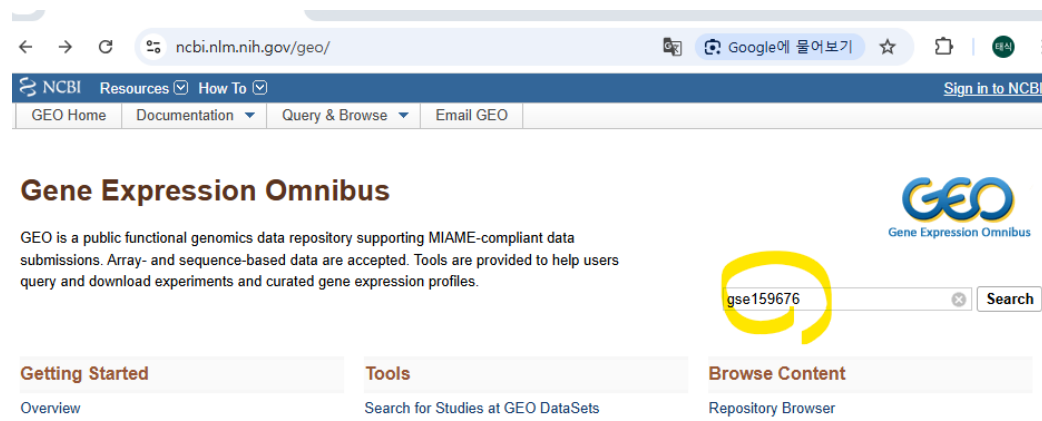


Step for obtaining gene expression files

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



NCBI Resources How To Sign in to NCBI

GEO Home Documentation Query & Browse Email GEO

Gene Expression Omnibus

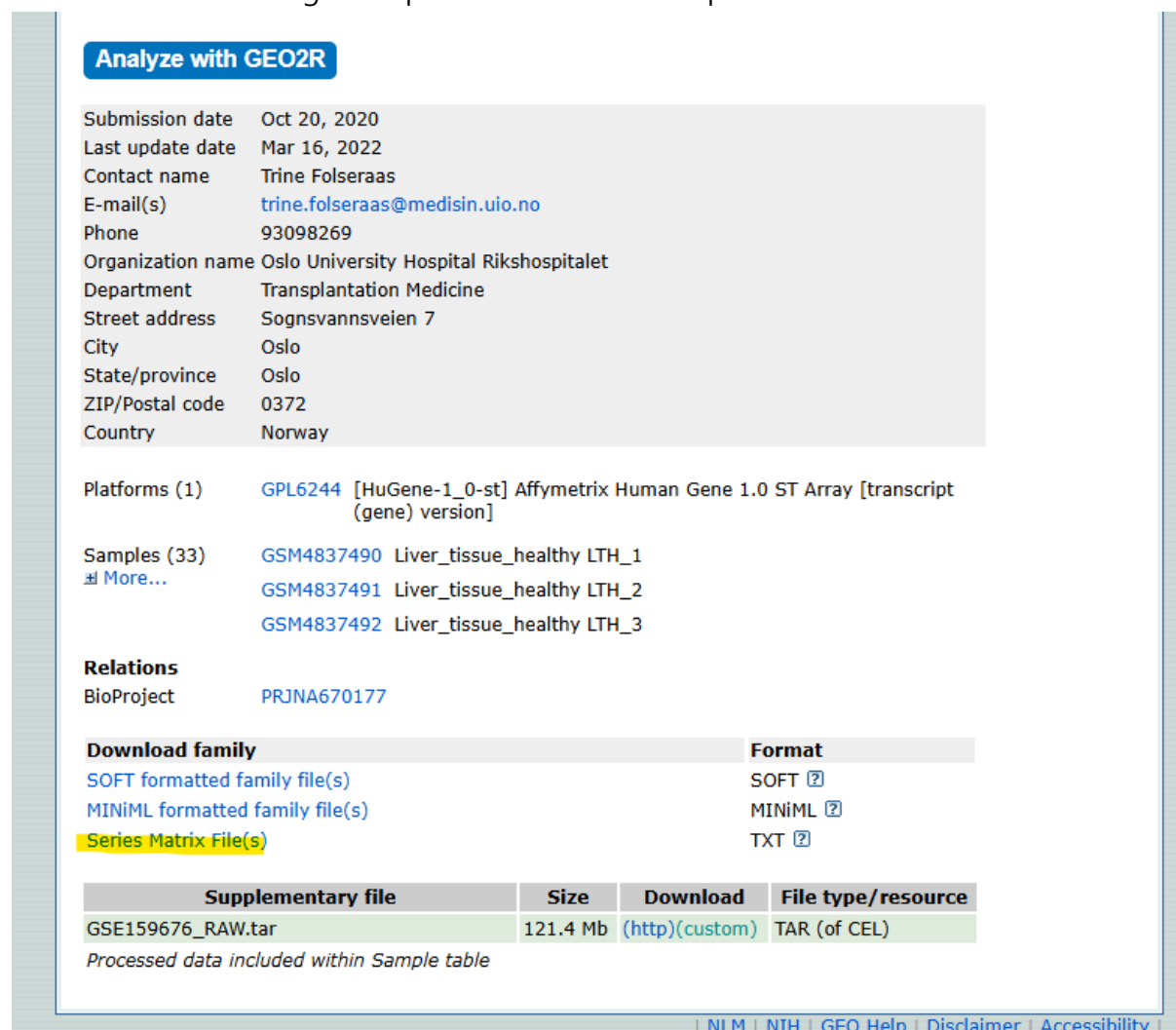
GEO is a public functional genomics data repository supporting MIAME-compliant data submissions. Array- and sequence-based data are accepted. Tools are provided to help users query and download experiments and curated gene expression profiles.

gse159676 Search

Getting Started Tools Browse Content

Overview Search for Studies at GEO DataSets Repository Browser

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



Analyze with GEO2R

Submission date Oct 20, 2020
Last update date Mar 16, 2022
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City Oslo
State/province Oslo
ZIP/Postal code 0372
Country Norway

Platforms (1) [GPL6244](#) [HuGene-1_0-st] Affymetrix Human Gene 1.0 ST Array [transcript (gene) version]

Samples (33) [GSM4837490](#) Liver_tissue_healthy LTH_1
[GSM4837491](#) Liver_tissue_healthy LTH_2
[GSM4837492](#) Liver_tissue_healthy LTH_3
[More...](#)

Relations
BioProject [PRJNA670177](#)

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
GSE159676_RAW.tar	121.4 Mb	(http)(custom)	TAR (of CEL)

Processed data included within Sample table

NLM NIH GEO Help Disclaimer Accessibility

- 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 ?

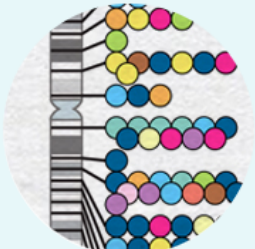
Supplementary file	Size	Download	File type/resource
GSE213621_FPKMs_allsamples.txt.gz	31.7 Mb	(ftp) (http)	TXT

[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.



GWAS Catalog

The NHGRI-EBI Catalog of human genome-wide association studies

[GCST90011885](#) [?](#)

Examples: Parkinson disease, rs3093017, Yao, 2q37.2, HBS1L, 6:167120000-167130000, GCST90132222, PMID:35241825

- 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.

Publication information

PubMed ID

32296765

Journal

J Hepatol

View in PubMed

First author

Anstee QM

Publication date

2020-04-13

View in Europe PMC

Title

Genome-wide association study of non-alcoholic fatty liver and steatohepatitis in a histologically-characterised cohort.

Authors

Anstee QM, Darlay R, Cockell S, Meroni M, Govaere O, Tiniakos D, Burd AD, Bedossa P, Palmer J, Liu YL, Aithal GP, Allison M, Yki-Järvinen H, Vacca M, Dufour JF, Invernizzi P, Prati D, Ekstedt M, Kechagias S, Francque S, Petta S, Bugianesi E, Clement K, Ratzia V, Schattenberg JM, Valenti L...

Show more

Full Summary Statistics

Available data: Associations 13 Studies 7 Full summary statistics 1

Download Associations

Studies with summary statistics 1

Show 5 entries

Column visibility Export Clear search

First author	Study accession	Pub. date	Journal	Title	Reported trait	Trait(s)	Background trait(s)	Discovery sample number	Replication sample number	Association count	Summary statistics
Anstee QM	GCST90011885	2020-04-13	J Hepatol	Genome-wide association study of non-alcoholic...	Nonalcoholic fatty liver disease	non-alcoholic fatty liver disease	-	• 19264 European	• 1504 European	2	FTP Download

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

Index of /pub/databases/gwas/summary_stat

Name	Last modified	Size	Description
Parent Directory		-	
GCST90011885_buildGRCh37.tsv.gz	2025-02-10 01:35	337M	
GCST90011885_buildGRCh37.tsv.gz-meta.yaml	2025-02-10 01:35	1.0K	
README.txt	2025-02-10 01:35	288	
harmonised/	2025-06-26 15:44	-	
md5sum.txt	2025-02-10 01:35	140	