

NCBI



Archive for gene expression, epigenomic
& functional genomic data sets

Gene Expression Omnibus

ncbi.nlm.nih.gov/geo/

Gene Expression Omnibus archives and freely distributes comprehensive gene expression, epigenomic and functional genomic data sets. Sequence- and array-based data are accepted. Tools help users search, analyze, visualize and download studies and gene expression profiles.

Study types included in GEO

RNA-seq • ChIP-seq • miRNA-seq
single-cell-seq • RNA-array • miRNA-array
ChIP-array • arrayCGH • ATAC-seq • methyl-seq • HiC-seq and more...

over 100,000
studies

comprising

2.6 million
assays

from 4,000
species

On the web

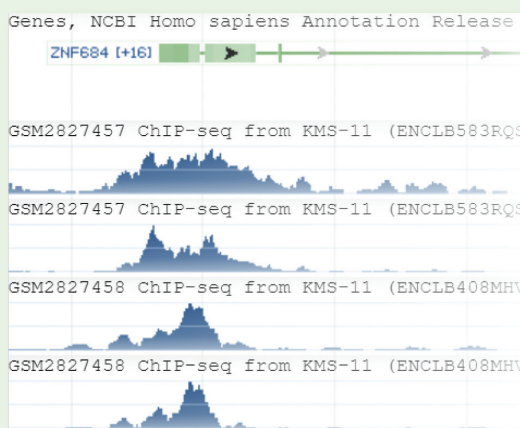


Search data

go.usa.gov/xUS6k

View data with tracks on Genome Data Viewer

[ncbi.nlm.nih.gov/gds/?term=track\[filter\]](http://ncbi.nlm.nih.gov/gds/?term=track[filter])



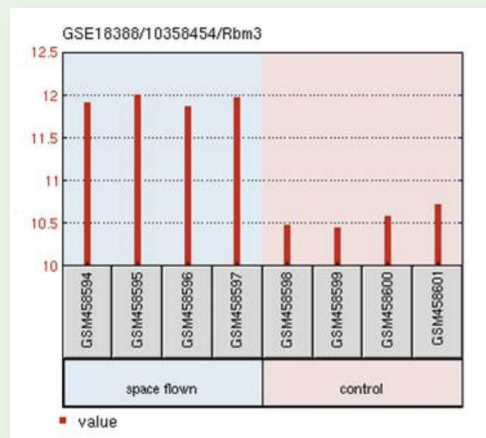
Download data

ncbi.nlm.nih.gov/geo/info/download.html

Analyze with GEO2R

go.usa.gov/xUS6X

Use GEO2R to identify genes that are differentially expressed across a study.



U.S. National Library of Medicine
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Watch our GEO2R tutorial
bit.ly/GEO2R-tutorial