

NCBI Databases

What kinds of data does NCBI have?
How can I search for it?

Literature

The world's largest repository of medical and scientific abstracts, full-text articles, books and reports

Bookshelf

Books and reports
<https://www.ncbi.nlm.nih.gov/books/>

MeSH

Ontology used for PubMed indexing
<https://www.ncbi.nlm.nih.gov/mesh/>

NLM Catalog

Books, journals, and more in the NLM collections
<https://www.ncbi.nlm.nih.gov/nlmcatalog/>

PubMed

Scientific and medical abstracts/citations
<https://pubmed.ncbi.nlm.nih.gov/>

PubMed Central

Full-text journal articles
<https://www.ncbi.nlm.nih.gov/pmc/>

Clinical

Heritable DNA variations, associations with human pathologies, and clinical diagnostics and treatments

ClinicalTrials.gov

Private and public clinical studies conducted around the world
<https://clinicaltrials.gov/>

ClinVar

Human variations of clinical significance
<https://www.ncbi.nlm.nih.gov/clinvar/>

dbGaP

Human clinical genotype/phenotype interaction studies
<https://www.ncbi.nlm.nih.gov/gap/>

dbSNP

Short genetic variations
<https://www.ncbi.nlm.nih.gov/snp/>

dbVar

Genome structural variation studies
<https://www.ncbi.nlm.nih.gov/dbvar/>

GTR

Genetic testing registry
<https://www.ncbi.nlm.nih.gov/gtr/>

MedGen

Medical genetics literature and links
<https://www.ncbi.nlm.nih.gov/medgen/>

OMIM

Online mendelian inheritance in man
<https://www.ncbi.nlm.nih.gov/omim/>

Genomes

Genome sequence assemblies, large-scale functional genomics data, and source biological samples

Assembly

Genome assembly information - now a part of NCBI Datasets
<https://www.ncbi.nlm.nih.gov/assembly/>

BioCollections

Museum, herbaria, and other biorepository collections
<https://www.ncbi.nlm.nih.gov/biocollections/>

BioProject

Biological research projects with links to publications and data
<https://www.ncbi.nlm.nih.gov/bioproject/>

BioSample

Biological source materials, descriptions, and links to data
<https://www.ncbi.nlm.nih.gov/biosample/>

Genome

Genome sequence project data - now a part of NCBI Datasets
<https://www.ncbi.nlm.nih.gov/genome/>

Nucleotide

DNA and RNA sequences
<https://www.ncbi.nlm.nih.gov/nucleotide/>

SRA

High-throughput sequence reads
<https://www.ncbi.nlm.nih.gov/sra/>

Taxonomy

Organism classification and nomenclature
<https://www.ncbi.nlm.nih.gov/taxonomy/>

Genes

Gene sequences and annotations used as references for the study of structure, expression, and evolution

Gene

Collected information about gene loci
<https://www.ncbi.nlm.nih.gov/gene/>

GEO Datasets

Functional genomics studies
<https://www.ncbi.nlm.nih.gov/gds/>

GEO Profiles

Gene expression and molecular abundance profiles <https://www.ncbi.nlm.nih.gov/geoprofiles/>

Orthologs - a replacement for Homologene

Accessible in the summary section of Gene records
<https://www.ncbi.nlm.nih.gov/gene/>

PopSet - soon to retire, data still accessible in Nucleotide

Sequence sets from phylogenetic and population studies
<https://www.ncbi.nlm.nih.gov/popset/>

NCBI Databases

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Proteins

Protein sequences, 3-D structures, and tools for the study of functional protein domains and active sites

Conserved Domains

Conserved protein domains
<https://www.ncbi.nlm.nih.gov/cdd/>

Identical Protein Groups

Protein sequences grouped by identity
<https://www.ncbi.nlm.nih.gov/ipg/>

Protein

Protein sequences
<https://www.ncbi.nlm.nih.gov/protein/>

Protein Family Models

Models representing homologous proteins with a common function
<https://www.ncbi.nlm.nih.gov/protfam/>

Structure

Experimentally-determined biomolecular structures
<https://www.ncbi.nlm.nih.gov/structure/>

PubChem

Repository of chemical information, molecular pathways, and tools for bioactivity screening

BioAssay

Biological activity screening studies with data
<https://www.ncbi.nlm.nih.gov/pcassay/>

Compound

Chemical information with structures, information, and links
<https://www.ncbi.nlm.nih.gov/pccompound/>

Pathways

Molecular pathways with links to genes, proteins, and chemicals
<https://www.ncbi.nlm.nih.gov/biosystems/>

Substances

Deposited substance and chemical information
<https://www.ncbi.nlm.nih.gov/pccsubstance/>

Periodic Table of Elements

A specialty webpage for people interested in learning about atoms
<https://pubchem.ncbi.nlm.nih.gov/periodic-table/>

Searching with text/terms

Resources have send to "send to"links and download buttons to facilitate downloading data.

[All Database Search page](https://go.usa.gov/x647U)

<https://go.usa.gov/x647U>

[Molecular Databases Searching \(Entrez\) HelpDoc](https://go.usa.gov/x64JB)

<https://go.usa.gov/x64JB>

[PubMed Help page](https://go.usa.gov/x64Jk)

<https://go.usa.gov/x64Jk>

Searching with sequences

[BLAST Homepage](https://go.usa.gov/x64J8)

<https://go.usa.gov/x64J8>

[BLAST Help page](https://go.usa.gov/x64J9)

<https://go.usa.gov/x64J9>

Searching with 3D biomolecular structures

[VAST Homepage](https://go.usa.gov/x62TS)

<https://go.usa.gov/x62TS>

[VAST Help page](https://go.usa.gov/x62Th)

<https://go.usa.gov/x62Th>

Searching with chemical information

[PubChem Homepage](https://go.usa.gov/x64JR)

<https://go.usa.gov/x64JR>

[PubChem Help page](https://go.usa.gov/x64JQ)

<https://go.usa.gov/x64JQ>

