GenBank

RRID:SCR_002760
Type: Tool

Proper Citation
GenBank (RRID:SCR_002760)

Resource Information


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Description: NIH genetic sequence database that provides annotated collection of all publicly available DNA sequences for almost 280,000 formally described species (Jan 2014). These sequences are obtained primarily through submissions from individual laboratories and batch submissions from large-scale sequencing projects, including whole-genome shotgun (WGS) and environmental sampling projects. Most submissions are made using web-based BankIt or standalone Sequin programs, and GenBank staff assigns accession numbers upon data receipt. It is part of International Nucleotide Sequence Database Collaboration and daily data exchange with European Nucleotide Archive (ENA) and DNA Data Bank of Japan (DDBJ) ensures worldwide coverage. GenBank is accessible through NCBI Entrez retrieval system, which integrates data from major DNA and protein sequence databases along with taxonomy, genome, mapping, protein structure and domain information, and biomedical journal literature via PubMed. BLAST provides sequence similarity searches of GenBank and other sequence databases. Complete bimonthly releases and daily updates of GenBank database are available by FTP.

Abbreviations: GB

Synonyms: Gen Bank, GenBank,

Resource Type: data or information resource, storage service resource, data repository, database, service resource

Defining Citation: PMID:24217914, PMID:23193287, PMID:21071399

Keywords: genetic sequence, dna sequence, human genetics, human genome, nucleotide
sequence, nucleotide, dna, dna data bank, gene mapping, genetics, gold standard

**Funding Agency:** NLM

**Availability:** Free, Freely available

**Resource Name:** GenBank

**Resource ID:** SCR_002760

**Alternate IDs:** OMICS_01650

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### Ratings and Alerts

No rating or validation information has been found for GenBank.

No alerts have been found for GenBank.

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### Data and Source Information

**Source:** [SciCrunch Registry](#)

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### Usage and Citation Metrics

We found 37983 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [RRID](#).


Kobayashi A, et al. (2022) Vasopressin-oxytocin-type signaling is ancient and has a conserved water homeostasis role in euryhaline marine planarians. Science advances, 8(9), eabk0331.


Nandi N, et al. (2022) A phosphoswitch at acinus-serinecontrols autophagic responses to
cadmium exposure and neurodegenerative stress. eLife, 11.


Khaleldian E, et al. (2022) Sequence determinants of human-cell entry identified in ACE2-independent bat sarbecoviruses: A combined laboratory and computational network science approach. EBioMedicine, 79, 103990.


Mader AL, et al. (2022) Omicron's binding to sotrovimab, casirivimab, imdevimab, CR3022, and sera from previously infected or vaccinated individuals. iScience, 25(4), 104076.


Li J, et al. (2022) Heparin interacts with the main protease of SARS-CoV-2 and inhibits its activity. Spectrochimica acta. Part A, Molecular and biomolecular spectroscopy, 267(Pt 2), 120595.
