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

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:** nif-0000-02873, 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 43801 mentions in open access literature.

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


Stubbendieck RM, et al. (2023) Rothia from the Human Nose Inhibit Moraxella catarrhalis Colonization with a Secreted Peptidoglycan Endopeptidase. mBio, 14(2), e0046423.


Zhang RR, et al. (2023) Rational development of multicomponent mRNA vaccine candidates
Zhang Y, et al. (2023) Broad Host Tropism of Flaviviruses during the Entry Stage. Microbiology spectrum, 11(2), e0528122.


Wang Y, et al. (2023) SARS-CoV-2 Exposure in Norway Rats (Rattus norvegicus) from New York City. mBio, 14(2), e0362122.


Li MY, et al. (2023) The functional change of the P2X7R containing the Ala348 to Thr polymorphism is associated with the pathogenesis of gout. Scientific reports, 13(1), 5603.

Pope NS, et al. (2023) The expansion of agriculture has shaped the recent evolutionary history of a specialized squash pollinator. Proceedings of the National Academy of Sciences of the United States of America, 120(15), e2208116120.


Kingston NJ, et al. (2023) VelcroVax: a "Bolt-On" Vaccine Platform for Glycoprotein Display. mSphere, 8(1), e0056822.
