# Resource Summary Report

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## GenBank

RRID:SCR_002760
Type: Tool

### Proper Citation

GenBank (RRID:SCR_002760)

### Resource Information

**URL:** http://www.ncbi.nlm.nih.gov/Genbank/

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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:** database, data or information resource, service resource, storage service 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:** NLM

**Availability:** Free, Freely available

**Resource Name:** GenBank

**Resource ID:** SCR_002760

**Alternate IDs:** nif-0000-02873, OMICS_01650

**Record Creation Time:** 20220129T080215+0000

**Record Last Update:** 20250411T054801+0000

## Ratings and Alerts

No rating or validation information has been found for GenBank.

No alerts have been found for GenBank.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 55394 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.

Zhang S, et al. (2025) Discovery and characterization of potent broadly neutralizing antibodies from human survivors of severe fever with thrombocytopenia syndrome. EBioMedicine, 111, 105481.

Dong Z, et al. (2025) A KSHV-targeted small molecule efficiently blocks SARS-CoV-2 infection via inhibiting expression of EGFR and Cyclin A2. Emerging microbes & infections, 14(1), 2440490.

Steensels M, et al. (2025) Protective efficacy of classical vaccines and vaccination protocols against an exotic Newcastle disease virus genotype VII.2 in Belgian layer and broiler chickens. Poultry science, 104(1), 104604.

Ariaeenejad S, et al. (2025) Carboxylated nanocellulose from quinoa husk for enhanced protease immobilization and stability of protease in biotechnological applications. Scientific reports, 15(1), 256.

Zhi Y, et al. (2025) Glutathione reductase modulates endogenous oxidative stress and affects growth and virulence in Avibacterium paragallinarum. Veterinary research, 56(1), 1.

Canalis E, et al. (2025) A NOTCH3 pathogenic variant influences osteogenesis and can be targeted by antisense oligonucleotides in induced pluripotent stem cells. PloS one, 20(1), e0316644.

Liu M, et al. (2025) Transcriptional coupling of telomeric retrotransposons with the cell cycle. Science advances, 11(1), eadr2299.

Xie YJ, et al. (2025) Phylotranscriptomics resolved phylogenetic relationships and divergence time between 20 golden camellia species. Scientific reports, 15(1), 699.

Endo N, et al. (2025) Dysregulated HPA axis during postnatal developmental stages in the BTBR T+ Itpr3tf/J mouse: A model of autism spectrum disorder. Neuropsychopharmacology reports, 45(1), e12508.

Hsieh LC, et al. (2025) Apium graveolens L. alleviates acute lung injury in human A-549 cells by reducing NF-?B and NLRP3 inflammasome signaling. Pharmaceutical biology, 63(1), 1.

Du TY, et al. (2025) ?New Aquilariomyces and Mangifericomes species (Pleosporales, Ascomycota) from Aquilaria spp. in China. MycoKeys, 112, 103.

Parab L, et al. (2025) Chloramphenicol and gentamicin reduce the evolution of resistance to phage ?X174 by suppressing a subset of E. coli LPS mutants. PLoS biology, 23(1), e3002952.

Wang BN, et al. (2025) Vaccination of mice with Trichinella spiralis C-type lectin elicited the protective immunity and enhanced gut epithelial barrier function. PLoS neglected tropical diseases, 19(1), e0012825.

Bushhouse DZ, et al. (2025) RNA folding kinetics control riboswitch sensitivity in vivo. Nature communications, 16(1), 953.

Aboelsoued D, et al. (2025) Coproantigen detection and molecular identification of Cryptosporidium species among newborn and adult farm animals. AMB Express, 15(1), 12.

Li X, et al. (2025) Oral Fusobacterium nucleatum resists the acidic pH of the stomach due to membrane erucic acid synthesized via enoyl-CoA hydratase-related protein FnFabM. Journal of oral microbiology, 17(1), 2453964.

Víchová B, et al. (2025) Small mammals as hosts of vector-borne pathogens in the High Tatra Mountains region in Slovakia, Central Europe. Current research in parasitology & vector-borne diseases, 7, 100240.

Moudgil AD, et al. (2025) Taenia asiatica: Mitochondrial signatures based analysis of an emerging public health threat in India. New microbes and new infections, 63, 101562.

Psurtseva NV, et al. (2025) Ex Situ Conservation, DNA Barcoding and Enzymatic Potential Evaluation of Macrofungi (Basidiomycota, Ascomycota) from Vietnam. Journal of fungi (Basel, Switzerland), 11(1).

Oganesyan E, et al. (2025) Population Structure Based on Microsatellite Length Polymorphism, Antifungal Susceptibility Profile, and Enzymatic Activity of Candida auris Clinical Isolates in Russia. Journal of fungi (Basel, Switzerland), 11(1).