Resource Summary Report

Generated by NIF on Apr 16, 2025

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 Banklt 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, data repository,

storage 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: 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: 20250416T063308+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 NIF.

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.

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.

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.

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.

Dobrzy?ski J, et al. (2025) Non-native PGPB Consortium Altered the Rhizobacterial Community and Slightly Stimulated the Growth of Winter Oilseed Rape (Brassica napus L.) Under Field Conditions. Microbial ecology, 87(1), 168.

Mortensen S, et al. (2025) Structural and bioinformatics analyses identify deoxydinucleotidespecific nucleases and their association with genomic islands in gram-positive bacteria. Nucleic acids research, 53(1).

Elqady EM, et al. (2025) Biogenic synthesis of titanium nanoparticles by Streptomyces rubrolavendulae for sustainable management of Icerya aegyptiaca (Douglas). Scientific reports, 15(1), 1380.

Chu WK, et al. (2025) Migration of primordial germ cells and their relationship of PGCs with sex development in transgenic germline-specific fluorescent freshwater angelfish (Pterophyllum scalare). Scientific reports, 15(1), 1308.

Lv C, et al. (2025) Genomic characterization of Escherichia coli with a polyketide synthase (pks) island isolated from ulcerative colitis patients. BMC genomics, 26(1), 19.

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.

Salman S, et al. (2025) Characteristics and spatiotemporal changes in phenotypes and genotypes of extended-spectrum ?-lactamases in Escherichia coli isolated from bloodstream infections in China from 2014 to 2021. Annals of clinical microbiology and antimicrobials, 24(1), 7.

Römpp A, et al. (2025) The clinical-stage drug BTZ-043 accumulates in murine tuberculosis lesions and efficiently acts against Mycobacterium tuberculosis. Nature communications, 16(1), 826.

Huang Y, et al. (2025) A single residue switch mediates the broad neutralization of Rotaviruses. Nature communications, 16(1), 838.