Resource Summary Report

Generated by NIF on Apr 20, 2025

SARS-CoV-2-Sequences

RRID:SCR_018319
Type: Tool

Proper Citation

SARS-CoV-2-Sequences (RRID:SCR_018319)

Resource Information

URL: https://www.ncbi.nlm.nih.gov/genbank/sars-cov-2-seqs/

Proper Citation: SARS-CoV-2-Sequences (RRID:SCR_018319)

Description: Collection of SARS-CoV-2 sequences currently available in GenBank genetic sequence database and Sequence Read Archive. Updated as additional sequences are released.

Synonyms: Severe Acute Respiratory Syndrome CoronaVirus 2 Sequences

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

Keywords: SARS-CoV-2, SARS coronavirus, SARS-CoV infection, Coronavirus, data, SARS-CoV-2 sequence collection, nucleotide, genome, Betacoronavirus, protein

Related Condition: COVID-19

Funding: The Federal Government

Availability: Free, Available for download, Freely available

Resource Name: SARS-CoV-2-Sequences

Resource ID: SCR_018319

License URLs: https://www.ncbi.nlm.nih.gov/home/about/policies/

Record Creation Time: 20220129T080339+0000

Record Last Update: 20250420T014901+0000

Ratings and Alerts

No rating or validation information has been found for SARS-CoV-2-Sequences.

No alerts have been found for SARS-CoV-2-Sequences.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Ferreira da Silva L, et al. (2024) A novel viral RNA detection method based on the combined use of trans-acting ribozymes and HCR-FRET analyses. PloS one, 19(9), e0310171.

Martínez-González B, et al. (2022) Vaccine breakthrough infections with SARS-CoV-2 Alpha mirror mutations in Delta Plus, Iota, and Omicron. The Journal of clinical investigation, 132(9).

Elssaig EH, et al. (2022) Omicron SARS-CoV-2 Variants in an In Silico Genomic Comparison Study with the Original Wuhan Strain and WHO-Recognized Variants of Concern. Polish journal of microbiology, 71(4), 577.

Martínez-González B, et al. (2022) SARS-CoV-2 Point Mutation and Deletion Spectra and Their Association with Different Disease Outcomes. Microbiology spectrum, 10(2), e0022122.

Nallusamy S, et al. (2021) Exploring Phytochemicals of Traditional Medicinal Plants Exhibiting Inhibitory Activity Against Main Protease, Spike Glycoprotein, RNA-dependent RNA Polymerase and Non-Structural Proteins of SARS-CoV-2 Through Virtual Screening. Frontiers in pharmacology, 12, 667704.

Gupta V, et al. (2021) Comparative Genomics and Integrated Network Approach Unveiled Undirected Phylogeny Patterns, Co-mutational Hot Spots, Functional Cross Talk, and Regulatory Interactions in SARS-CoV-2. mSystems, 6(1).

Mazzocco G, et al. (2021) AI Aided Design of Epitope-Based Vaccine for the Induction of Cellular Immune Responses Against SARS-CoV-2. Frontiers in genetics, 12, 602196.

Pan B, et al. (2021) Identification of Epidemiological Traits by Analysis of SARS-CoV-2

Sequences. Viruses, 13(5).

Kumari P, et al. (2021) A computational analysis of molecular evolution for virulence genes of zoonotic novel coronavirus (COVID-19). Computational biology and chemistry, 93, 107532.

Lv J, et al. (2021) Detection of Phenotype-Related Mutations of COVID-19 via the Whole Genomic Data. IEEE/ACM transactions on computational biology and bioinformatics, 18(4), 1242.

Banaganapalli B, et al. (2021) Multilevel systems biology analysis of lung transcriptomics data identifies key miRNAs and potential miRNA target genes for SARS-CoV-2 infection. Computers in biology and medicine, 135, 104570.

Tarig M S Alnour , et al. (2021) Unique SARS-CoV-2 Variant Exhibiting Plenteous Missense Mutations in Structural and Nonstructural Genes. Cytology and genetics, 55(6), 606.

Rouchka EC, et al. (2020) Variant analysis of 1,040 SARS-CoV-2 genomes. PloS one, 15(11), e0241535.

Raimondi MT, et al. (2020) Bioengineering tools to speed up the discovery and preclinical testing of vaccines for SARS-CoV-2 and therapeutic agents for COVID-19. Theranostics, 10(16), 7034.

Mohon AN, et al. (2020) Optimization and clinical validation of dual-target RT-LAMP for SARS-CoV-2. Journal of virological methods, 286, 113972.

Barreto HG, et al. (2020) Diagnosing the novel SARS-CoV-2 by quantitative RT-PCR: variations and opportunities. Journal of molecular medicine (Berlin, Germany), 98(12), 1727.

Beck BR, et al. (2020) Predicting commercially available antiviral drugs that may act on the novel coronavirus (SARS-CoV-2) through a drug-target interaction deep learning model. Computational and structural biotechnology journal, 18, 784.

Alessandrini F, et al. (2020) Evaluation of the Ion AmpliSeq SARS-CoV-2 Research Panel by Massive Parallel Sequencing. Genes, 11(8).

Kaul KL, et al. (2020) Laboratories and Pandemic Preparedness: A Framework for Collaboration and Oversight. The Journal of molecular diagnostics : JMD, 22(7), 841.

Nishiga M, et al. (2020) COVID-19 and cardiovascular disease: from basic mechanisms to clinical perspectives. Nature reviews. Cardiology, 17(9), 543.