

Resource Summary Report

Generated by [ASWG](#) on Aug 3, 2026

GEMINI

RRID:SCR_014819

Type: Tool

Proper Citation

GEMINI (RRID:SCR_014819)

Resource Information

URL: <https://gemini.readthedocs.io/en/latest/>

Proper Citation: GEMINI (RRID:SCR_014819)

Description: Framework for exploring genetic variation in the context of the genome annotations available for the human genome. Users can load a VCF file into a database and each variant is automatically annotated by comparing it to several genome annotations from source such as ENCODE tracks, UCSC tracks, OMIM, dbSNP, KEGG, and HPRD.

Synonyms: GEnome MINIng (GEMINI), GEMINI - a flexible framework for exploring genome variation, Genome Mining, GEnome MINIng

Resource Type: software resource

Defining Citation: [DOI:10.1371/journal.pcbi.1003153](https://doi.org/10.1371/journal.pcbi.1003153)

Keywords: framework, genetic variation, annotation, human, genome, vcf, database, , bio.tools, FASEB list

Availability: Freely available

Resource Name: GEMINI

Resource ID: SCR_014819

Alternate IDs: biotools:gemini

Alternate URLs: <https://github.com/arq5x/gemini>, <https://bio.tools/gemini>

License: MIT license

Record Creation Time: 20220129T080322+0000

Record Last Update: 20260801T190518+0000

Ratings and Alerts

No rating or validation information has been found for GEMINI.

No alerts have been found for GEMINI.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 515 mentions in open access literature.

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

Medalcho TH, et al. (2025) Effects of spices mixture and cooking on antioxidant activity in Ethiopian spicy hot red pepper powder. Scientific reports, 15(1), 5203.

Fielden J, et al. (2025) Comprehensive interrogation of synthetic lethality in the DNA damage response. Nature, 640(8060), 1093.

Delsoz M, et al. (2025) Large Language Models: Pioneering New Educational Frontiers in Childhood Myopia. Ophthalmology and therapy, 14(6), 1281.

Bai AD, et al. (2025) Oseltamivir Treatment vs Supportive Care for Seasonal Influenza Requiring Hospitalization. JAMA network open, 8(6), e2514508.

Achuthan K, et al. (2025) The role of music in ADHD: A multi-dimensional computational and theoretical analysis. PloS one, 20(8), e0324369.

Barnet MB, et al. (2025) Common inherited loss-of-function mutations in the innate sensor NOD2 contribute to exceptional immune response to cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 122(28), e2314258122.

Stefanovi?? P, et al. (2025) The influence of Gen-AI tools application for text data augmentation: case of Lithuanian educational context data classification. Scientific reports, 15(1), 26010.

LaFramboise WA, et al. (2025) Cell-Free DNA, Tumor Molecular Concordance, and Clinical Correlates of Patients with Cancer Treated in a Large Community Health Care Network. The Journal of molecular diagnostics : JMD, 27(9), 882.

Tomasini D, et al. (2025) Genetic and Phenotypic Features of 2 Northern Italy Families with Dowling-Degos Disease Type 4. JID innovations : skin science from molecules to population health, 5(4), 100364.

Qiu X, et al. (2025) Enhancing the Readability of Online Pediatric Cataract Education Materials: A Comparative Study of Large Language Models. Translational vision science &

technology, 14(8), 19.

Ma W, et al. (2025) Table tennis coaching system based on a multimodal large language model with a table tennis knowledge base. PloS one, 20(2), e0317839.

Ukashi O, et al. (2025) Inter-Rater Disagreements in Applying the Montreal Classification for Crohn's Disease: The Five-Nations Survey Study. United European gastroenterology journal, 13(5), 685.

Neubauer JC, et al. (2025) Performance of large language models ChatGPT and Gemini in child and adolescent psychiatry knowledge assessment. PloS one, 20(9), e0332917.

Tan B, et al. (2025) Rewiring of 3D chromatin topology orchestrates transcriptional reprogramming in muscle fiber-type specification and transformation. Nature communications, 16(1), 5833.

Altan M, et al. (2025) PD-L1 Testing, Treatment Patterns, and Clinical Outcomes Among Patients with Metastatic NSCLC at an Academic Medical Center, 2017-2021. Journal of immunotherapy and precision oncology, 8(2), 161.

Casagrande D, et al. (2025) Evaluating the Accuracy of Gemini 2.0 Advanced and ChatGPT 4o in Cataract Knowledge: A Performance Analysis Using Brazilian Council of Ophthalmology Board Exam Questions. Cureus, 17(2), e79565.

Usen A, et al. (2025) Evaluation of the Performance of Large Language Models in the Management of Axial Spondyloarthritis: Analysis of EULAR 2022 Recommendations. Diagnostics (Basel, Switzerland), 15(12).

Hassaballah AI, et al. (2025) Design synthesis, characterization, molecular docking and antimicrobial evaluation of novel heterocycles with acrylonitrile and anthracene moieties. Scientific reports, 15(1), 19370.

Subasri V, et al. (2025) Detecting and Remediating Harmful Data Shifts for the Responsible Deployment of Clinical AI Models. JAMA network open, 8(6), e2513685.

Chatzopoulos GS, et al. (2025) Evaluation of Large Language Model Performance in Answering Clinical Questions on Periodontal Furcation Defect Management. Dentistry journal, 13(6).