Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

Genomic Standards Consortium

RRID:SCR_006273
Type: Tool

Proper Citation

Genomic Standards Consortium (RRID:SCR_006273)

Resource Information

URL: http://gensc.org/

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Description: An open-membership International community to promote mechanisms that standardize the description of genomes and the exchange and integration of genomic data. Community-driven standards have the best chance of success if developed within the auspices of international working groups. Participants in the GSC include biologists, computer scientists, those building genomic databases and conducting large-scale comparative genomic analyses, and those with experience of building community-based standards. The mission of the GSC is to work with the wider community towards: * the implementation of new genomic standards * methods of capturing and exchanging metadata * harmonization of metadata collection and analysis efforts across the wider genomics community

Abbreviations: GSC

Resource Type: data or information resource, international standard specification, knowledge environment, narrative resource, standard specification

Keywords: genome, genomics, standards

Funding: National Institute for Environmental eScience ;
NERC NE/3521773/1

Resource Name: Genomic Standards Consortium

Resource ID: SCR_006273

Alternate IDs: nlx_151884, OMICS_01780

Old URLs: http://gensc.org/gc_wiki/index.php/Main_Page

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260912T195637+0000

Ratings and Alerts

No rating or validation information has been found for Genomic Standards Consortium.

No alerts have been found for Genomic Standards Consortium.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Holm JB, et al. (2025) First island-wide, single-day soil collection study on Crete reveals environmental drivers of microbial diversity. Environmental microbiome, 20(1), 94.

Keenum I, et al. (2025) A standards perspective on genomic data reusability and reproducibility. Frontiers in bioinformatics, 5, 1572937.

Heuermann MC, et al. (2025) White paper: standards for handling and analyzing plant pan-genomes. F1000Research, 14, 739.

Kimotho RN, et al. (2024) Unraveling plant-microbe interactions: can integrated omics approaches offer concrete answers? Journal of experimental botany, 75(5), 1289.

Kopczynski D, et al. (2024) The lipidomics reporting checklist a framework for transparency of lipidomic experiments and repurposing resource data. Journal of lipid research, 65(9), 100621.

Meyer R, et al. (2023) Aligning Standards Communities for Omics Biodiversity Data: Sustainable Darwin Core-MIxS Interoperability. Biodiversity data journal, 11, e112420.

Ritsch M, et al. (2023) Navigating the Landscape: A Comprehensive Review of Current Virus Databases. Viruses, 15(9).

Jorge F, et al. (2022) MIxS-SA: a MIxS extension defining the minimum information standard for sequence data from symbiont-associated micro-organisms. ISME communications, 2(1), 9.

Bernasconi A, et al. (2021) A review on viral data sources and search systems for perspective mitigation of COVID-19. Briefings in bioinformatics, 22(2), 664.

Hou J, et al. (2020) Microbial succession during the transition from active to inactive stages of deep-sea hydrothermal vent sulfide chimneys. Microbiome, 8(1), 102.

Schriml LM, et al. (2020) COVID-19 pandemic reveals the peril of ignoring metadata standards. Scientific data, 7(1), 188.

Dheilly NM, et al. (2019) Parasite microbiome project: Grand challenges. PLoS pathogens, 15(10), e1008028.

Goh KM, et al. (2019) Current Status and Potential Applications of Underexplored Prokaryotes. Microorganisms, 7(10).

Harrison PW, et al. (2019) The European Nucleotide Archive in 2018. Nucleic acids research, 47(D1), D84.

Roux S, et al. (2019) Minimum Information about an Uncultivated Virus Genome (MIUViG). Nature biotechnology, 37(1), 29.

Harper L, et al. (2018) AgBioData consortium recommendations for sustainable genomics and genetics databases for agriculture. Database : the journal of biological databases and curation, 2018.

Klemetsen T, et al. (2018) The MAR databases: development and implementation of databases specific for marine metagenomics. Nucleic acids research, 46(D1), D692.

Reiser L, et al. (2018) FAIR: A Call to Make Published Data More Findable, Accessible, Interoperable, and Reusable. Molecular plant, 11(9), 1105.

Ellenberg J, et al. (2018) A call for public archives for biological image data. Nature methods, 15(11), 849.

Fujiyoshi S, et al. (2017) Transmission of Airborne Bacteria across Built Environments and Its Measurement Standards: A Review. Frontiers in microbiology, 8, 2336.