

Resource Summary Report

Generated by [ASWG](#) on Aug 2, 2026

NCBI BioSample

RRID:SCR_004854

Type: Tool

Proper Citation

NCBI BioSample (RRID:SCR_004854)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/biosample>

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Description: Database containing descriptions of biological source materials used in experimental assays. Sources include: GenBank, Sequence Read Archive (SRA), Coriell, ATCC. Submissions are supported by a web-based Submission Portal that guides users through a series of forms for input of rich metadata describing their samples. As the capacity and complexity of biological data sets expands, databases face new challenges in ensuring that the information is adequately organized and described. The NCBI BioSample database is being developed to help address the challenges by providing the means by which data generators can organize and describe a broad range of sample types, and link to corresponding sets of experimental data in archival databases.

Abbreviations: BioSample

Synonyms: BioSample Database, NCBI BioSample Database

Resource Type: data or information resource, database

Defining Citation: [PMID:22139929](#)

Keywords: RIN, Resource Information Network, dna, rna, cell, cell line, stem cell, biomaterial, gold standard, RRID Community Authority

Funding: NLM

Availability: The community can contribute to this resource

Resource Name: NCBI BioSample

Resource ID: SCR_004854

Alternate IDs: nlx_143929, r3d100012828, OMICS_01024

Alternate URLs: <https://doi.org/10.17616/R31NJME4>

Record Creation Time: 20220129T080226+0000

Record Last Update: 20260801T190921+0000

Ratings and Alerts

No rating or validation information has been found for NCBI BioSample.

No alerts have been found for NCBI BioSample.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 410 mentions in open access literature.

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

Maeoka R, et al. (2025) Immunotherapy using allogenic NK cells downregulates mitochondrial-related genes and inhibits the OXPHOS system of malignant meningioma. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 187, 118099.

Ji F, et al. (2025) Liver-specific gene PGRMC1 blocks c-Myc-induced hepatocarcinogenesis through ER stress-independent PERK activation. *Nature communications*, 16(1), 50.

Payne M, et al. (2025) Characterizing *Staphylococcus aureus* genomic epidemiology with multilevel genome typing. *mSystems*, 10(10), e0093525.

Ghazawi A, et al. (2025) Comparative genomic study of blaKPC-2-carrying multidrug-resistant *Klebsiella pneumoniae* in the United Arab Emirates. *Scientific reports*, 15(1), 45259.

Zhang D, et al. (2025) Genetic Profiling of Synchronous Pituitary Corticotroph Adenomas. *Research square*.

Cia C-T, et al. (2025) Infections caused by clonal spread of metallo-beta-lactamase-producing *Enterobacter cloacae* complex isolates at a southern Taiwan hospital. *Microbiology spectrum*, 13(7), e0023425.

Alves G, et al. (2025) Biological Function Assignment Across Taxonomic Levels in Mass-Spectrometry-Based Metaproteomics via a Modified Expectation Maximization Algorithm. *bioRxiv : the preprint server for biology*.

Ahmed MA, et al. (2025) Genome-resolved adaptation strategies of Rhodobacterales to changing conditions in the Chesapeake and Delaware Bays. *Applied and environmental*

microbiology, 91(2), e0235724.

Alves G, et al. (2025) Biological Function Assignment across Taxonomic Levels in Mass-Spectrometry-Based Metaproteomics via a Modified Expectation Maximization Algorithm. *Journal of proteome research*, 24(8), 3818.

Luo S, et al. (2025) Inhibition of Tumor Lipogenesis and Growth by Peptide-Based Targeting of SREBP Activation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(45), e08111.

Ullah K, et al. (2025) ARNT-dependent HIF-2 α signaling protects cardiac microvascular barrier integrity and heart function post-myocardial infarction. *Communications biology*, 8(1), 440.

Barjau-Aguilar M, et al. (2025) Diversity and Structure of the Prokaryotic Community in Tropical Monomictic Reservoir. *Microbial ecology*, 88(1), 12.

Qin X, et al. (2025) Thioester-containing protein TEP15 promotes malaria parasite development in mosquitoes through negative regulation of melanization. *Parasites & vectors*, 18(1), 124.

Mansueto L, et al. (2024) CannSeek? Yes we Can! An open-source single nucleotide polymorphism database and analysis portal for Cannabis sativa. *GigaByte (Hong Kong, China)*, 2024, gigabyte135.

Wang H, et al. (2024) Crop DNA extraction with lab-made magnetic nanoparticles. *PloS one*, 19(1), e0296847.

Koubínová D, et al. (2024) Microsatellite Content in 397 Nuclear Exons and Their Flanking Regions in the Fern Family Ophioglossaceae. *Plants (Basel, Switzerland)*, 13(5).

Bergström A, et al. (2024) Improving data archiving practices in ancient genomics. *Scientific data*, 11(1), 754.

Schikora-Tamarit MÀ, et al. (2024) Recent gene selection and drug resistance underscore clinical adaptation across Candida species. *Nature microbiology*, 9(1), 284.

Meshram DD, et al. (2024) Membrane Association of the Short Transglutaminase Type 2 Splice Variant (TG2-S) Modulates Cisplatin Resistance in a Human Hepatocellular Carcinoma (HepG2) Cell Line. *Current issues in molecular biology*, 46(5), 4251.

Alfonso P, et al. (2024) Unveiling the hidden viromes across the animal tree of life: insights from a taxonomic classification pipeline applied to invertebrates of 31 metazoan phyla. *mSystems*, 9(5), e0012424.