

Resource Summary Report

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European Nucleotide Archive (ENA)

RRID:SCR_006515

Type: Tool

Proper Citation

European Nucleotide Archive (ENA) (RRID:SCR_006515)

Resource Information

URL: <http://www.ebi.ac.uk/ena/>

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Description: Public archive providing a comprehensive record of the world's nucleotide sequencing information, covering raw sequencing data, sequence assembly information and functional annotation. All submitted data, once public, will be exchanged with the NCBI and DDBJ as part of the INSDC data exchange agreement. The European Nucleotide Archive (ENA) captures and presents information relating to experimental workflows that are based around nucleotide sequencing. A typical workflow includes the isolation and preparation of material for sequencing, a run of a sequencing machine in which sequencing data are produced and a subsequent bioinformatic analysis pipeline. ENA records this information in a data model that covers input information (sample, experimental setup, machine configuration), output machine data (sequence traces, reads and quality scores) and interpreted information (assembly, mapping, functional annotation). Data arrive at ENA from a variety of sources including submissions of raw data, assembled sequences and annotation from small-scale sequencing efforts, data provision from the major European sequencing centers and routine and comprehensive exchange with their partners in the International Nucleotide Sequence Database Collaboration (INSDC). Provision of nucleotide sequence data to ENA or its INSDC partners has become a central and mandatory step in the dissemination of research findings to the scientific community. ENA works with publishers of scientific literature and funding bodies to ensure compliance with these principles and to provide optimal submission systems and data access tools that work seamlessly with the published literature. ENA is made up of a number of distinct databases that includes the EMBL Nucleotide Sequence Database (Embl-Bank), the newly established Sequence Read Archive (SRA) and the Trace Archive. The main tool for downloading ENA data is the ENA Browser, which is available through REST URLs for easy programmatic use. All ENA data are available through the ENA Browser. Note: EMBL Nucleotide Sequence Database (EMBL-Bank) is entirely included within this resource.

Abbreviations: ENA

Synonyms: ENA, European Nucleotide Archive

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

Defining Citation: [PMID:20972220](#)

Keywords: analysis, bioinformatics, dna, nucleotide, sequencing, web service, rna, molecular biology, nucleotide sequence, protein, gene expression, gene, genome, biochemistry, molecular structure, metabolite, protein binding, chemogenomics, gold standard

Funding: EMBL ;
Wellcome Trust ;
European Union

Availability: Public, The community can contribute to this resource, Acknowledgement requested

Resource Name: European Nucleotide Archive (ENA)

Resource ID: SCR_006515

Alternate IDs: OMICS_01029, r3d100010527, nif-0000-32981

Alternate URLs: <http://www.ebi.ac.uk/embl/>, <https://doi.org/10.17616/R3HW3J>

Record Creation Time: 20220129T080236+0000

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Ratings and Alerts

No rating or validation information has been found for European Nucleotide Archive (ENA).

No alerts have been found for European Nucleotide Archive (ENA).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1344 mentions in open access literature.

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

Zhu Y, et al. (2026) Multi-omics exploration of hypoxia in gastric cancer. World journal of surgical oncology, 24(1).

Weber BA, et al. (2026) Novel LIPC-related recessive form of postural proprioceptive deficits in Brown Swiss cattle. *Veterinary and animal science*, 32, 100645.

Domínguez-Huerta G, et al. (2026) Ecology of prokaryotic DNA viruses in a highly impacted coastal lagoon revealed through comparative and temporal metagenomics. *ISME communications*, 6(1), ycag110.

Fouché S, et al. (2026) Recurrent Chromosome Destabilization Through Repeat-Mediated Rearrangements in a Fungal Pathogen. *Genome biology and evolution*, 18(3).

Wu S, et al. (2026) Environmental DNA (eDNA) Technology in Biodiversity and Ecosystem Health Research: Advances and Prospects. *Ecology and evolution*, 16(1), e72891.

Jacinto J, et al. (2026) A CACNA2D2-Related Recessive Form of Cerebellar Abiotrophy in Angus Cattle. *Animal genetics*, 57(2), e70086.

Junger PC, et al. (2026) Ecological Processes Shaping Marine Microbial Assemblages Diverge Between Equatorial and Temperate Time-Series. *Molecular ecology*, 35(2), e70241.

Stengele K, et al. (2026) Benzoxazinoid-mediated microbiome feedbacks enhance *Arabidopsis* growth and defence. *The New phytologist*, 250(5), 3334.

Jacinto J, et al. (2026) LRP4-Related Lethal Syndromic Form of Syndactyly in Limousin Cattle. *Animal genetics*, 57(2), e70090.

Yang H, et al. (2026) Spatio-temporal differences and associations between upper and lower respiratory microbiota in ventilator-associated pneumonia. *Frontiers in cellular and infection microbiology*, 16, 1757535.

Zhang W, et al. (2026) Mapping longitudinal lung mycobiome characteristics in severe COVID-19 patients. *iScience*, 29(3), 114995.

Marcuzzo C, et al. (2026) High-quality chromosome-scale genome assemblies of 29 maize inbred lines of European breeding relevance. *Scientific data*, 13(1).

Ferreirinha P, et al. (2026) KLF2 controls thymic epithelial cell homeostasis, impacting regulatory T cell development and immune tolerance. *iScience*, 29(4), 115161.

Peng H, et al. (2026) An active Helitron transposon family in wheat. *Nature plants*, 12(6), 1209.

Walter B, et al. (2026) Prevalence of diphtheria and antimicrobial-resistant wound infections among asylum seekers in Heidelberg, Germany, August-October 2024. *PloS one*, 21(6), e0350513.

Koehlen S, et al. (2026) Exhaled Carbon Monoxide Indicates Persistent Subgingival Dysbiosis After Periodontal Therapy. *Journal of clinical periodontology*, 53(2), 170.

Singh N, et al. (2026) *Aeromonas* in South Asia: genomic insights into an environmental pathogen and reservoir of antimicrobial resistance. *Nature communications*, 17(1).

Gorssen W, et al. (2026) Genetic analysis of iris pigmentation in Swiss pig breeds identifies a missense KITLG variant as a potential causal factor for pale and heterochromatic irises. Genetics, selection, evolution : GSE, 58(1).

Herrando-Pérez S, et al. (2026) A dataset of radiocarbon dates from Holarctic mammal collagen purified with high-quality chemistry. Scientific data, 13(1).

Wassermann B, et al. (2026) Diversity and selected functional traits of microbiota associated with traditional dried plant foods from South African informal markets. FEMS microbes, 7, xtag026.