Digital Diversity Hub

`hub.dsmz.de`

Search in our Databases

The Hub lets you search directly in all of our renowned databases and guides you to the results.

Integrated Strain Profiles

Within the Hub, all data for each bioresource of the DSMZ will be integrated, giving you all data in one place.

Knowledge Graph

An interactive knowledge graph will let you explore the data and gives you novel insights into data relationsships.

AI-guided assistence

Within the next years, the knowledge graph will be used to deploy artificial intelligence (e.g. LLMs) to answer user questions.

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Provided by

DSMZ

Leibniz Institute
DSMZ-German Collection
of Microorganisms
and Cell Cultures GmbH

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DSMZ Digital Diversity

Integrated Databases for the Life Sciences

The DSMZ Digital Diversity provides a cohesive suite of scientific databases, developed to support the life sciences.

Focus on Bioresources

The DSMZ has a strong expertise in collecting bioresources, such as bacteria, fungi and cell lines. This is also the focus of our databases.

Novel Applications

We will develop the Digital Diversity platform into a comprehensive toolbox for microbiologists.

Our Databases

BacDive
Trait data on prokaryotic strains

The Bacterial Diversity database Bac*Dive* is the worldwide largest database for standardized bacterial phenotypic information, mobilized and integrated from diverse sources.

bacdive.dsmz.de

DSMZ CellDive
Tools and data for cell lines

DSMZCellDive helps with selecting suitable model cell lines by providing insights into gene expressions, authentication profiles, and more.

celldive.dsmz.de

BRENDA
Data on enzymes and metabolites

The BRENDA enzyme database is the world's most comprehensive enzyme information repository and offers a large palette of tools alongside manually annotated information on enzymes, metabolites and pathways.

brenda-enzymes.org

silva
Ribosomal RNA and taxonomy

SILVA provides comprehensive, quality checked and regularly updated datasets of aligned small (16S/18S) and large subunit (23S/28S) ribosomal RNA (rRNA) sequences for all three domains of life.

arb-silva.de

PhageDive
Trait data for phages

Phage*Dive* is a specific database for bacteriophages and archaeal viruses. it gathers and links all the experimental data and metadata of the viruses present in different culture collections

phagedive.dsmz.de

LPSN .dsmz.de
Nomenclature and taxonomy

The List of Prokaryotic names with Standing in Nomenclature provides comprehensive information on the nomenclature of prokaryotes and more.
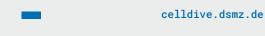
lpsn.dsmz.de

StrainInfo
Microbial strain identifiers

StrainInfo is a service to provide a resolution of microbial strain identifiers by storing culture collection numbers, their relations, and culture-associated data and providing persistent identifiers (e.g. DOIs).

straininfo.dsmz.de

TCGC TYGS TTGG
Genome-based prokaryote taxonomy

The Type Strain Genome Server is a user-friendly high-throughput web server for genome-based prokaryote taxonomy, providing digital DNA:DNA hybrization values, differences in G+C content and more.

tygs.dsmz.de

MediaDive
Cultivation media and growth data

Media*Dive* is a manually curated collection of cultivation media and growth conditions, providing many digital tools to find, share and predict cultivation media.

mediadive.dsmz.de