

Resource Summary Report

Generated by ASWG on Aug 2, 2026

German Collection of Microorganisms and Cell Cultures

RRID:SCR_001711

Type: Tool

Proper Citation

German Collection of Microorganisms and Cell Cultures (RRID:SCR_001711)

Resource Information

URL: <http://www.dsmz.de/>

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Description: The DSMZ - Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH (German Collection of Microorganisms and Cell Cultures) is the most comprehensive biological resource center in Europe. With more than 18.000 microorganisms, 1.200 plant viruses, 600 human and animal cell lines, 770 plant cell cultures and more than 7.100 cultures deposited for the purposes of patenting, DSMZ has demonstrated their obligation to serve science for decades. Main functions of DSMZ are: - to collect, maintain and store microorganisms and cell lines, as well as other biological material of relevance for applied biology, biotechnology, microbiology, teaching and other areas of research and general application; - to keep the scientific and industrial community informed on the contents of the collections by the means of catalogs, special lists, databases or electronic media; - to supply scientists and institutions with DSMZ cultures, in accordance with national and international laws such as the Infektionsschutzgesetz (Act dealing with protection against infection), the Genetic Engineering Act, the Foreign Trade Laws, the Convention on Biological Diversity as well as the DSMZ terms of supply; - to function as an internationally recognized collection center for the deposit of microorganisms, cell lines, and other biological material which have been cited in scientific literature or which are used in national or international test procedures (e.g. type strains, reference strains for national and international quality control regulations or susceptibility tests, strains with special properties, such as the production of enzymes, degradation of pollutants, host strains for plasmids, etc.); - to act as an International Depositary Authority (IDA) for the deposit of biological material for patent purposes according to the Budapest Treaty; - to act, in a confidential manner, as a center for the safe deposit of biological material; - to act as an advisory center for the scientific community and to offer teaching and service facilities. The DSMZ collections contain over 26 000 cultures (including 6500 patent deposits) representing more than 16 000 cultures of microorganisms (Archaea,

Bacteria, plasmids, phages, yeasts, fungi), 750 plant cell cultures, 600 plant viruses, 700 antisera and 580 human and animal cell lines. Unique subcollections are held in the prokaryotes groups of acidophiles, alkaliphiles, halophiles, methanogens, phototrophs, thermophiles, and sulfate reducers. The research is focused on collection related fields which include: - Taxonomy - Evolution - Phylogeny - Microbial diversity and molecular assessment of diversity - Molecular systematics - Research on pathobiological aspects of leukemia-lymphoma cell lines applying classical and molecular genetics, immunological and cell biological methods * Development of cultivation and preservation methods for biological material * Characterization and identification of biological material

Abbreviations: DSMZ

Synonyms: Leibniz Institut DSMZ - Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Leibniz Institute DSMZ - German Collection of Microorganisms and Cell Cultures

Resource Type: data or information resource, database

Defining Citation: [PMID:18080463](#)

Keywords: enzyme, europe, evolution, fungus, genetic, acidophile, alkaliphile, animal, antisera, archaea, bacteria, biological, biology, biotechnology, cell, cell culture, culture, degradation, diversity, halophile, host, human, human cell line, immunological, leukemia, literature, lymphoma, methanogen, microbial, microbiology, microorganism, molecular, pathobiological, phage, phototroph, phylogeny, plant, plant virus, plasmid, pollutant, prokaryote, reducer, research, science, scientific, strain, sulfate, systematic, taxonomy, thermophile, virus, yeast, FASEB list

Availability: Free, Freely Available

Resource Name: German Collection of Microorganisms and Cell Cultures

Resource ID: SCR_001711

Alternate IDs: DOI:10.17616/R3G88X, nif-0000-10209, r3d100010219, DOI:10.13145

Alternate URLs: <https://doi.org/10.17616/R3G88X>, <https://doi.org/10.17616/r3G88X>, <https://doi.org/10.13145/>, <https://dx.doi.org/10.13145/>, <https://doi.org/10.17616/R3G88X>

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260801T190905+0000

Ratings and Alerts

No rating or validation information has been found for German Collection of Microorganisms and Cell Cultures.

No alerts have been found for German Collection of Microorganisms and Cell Cultures.

Data and Source Information

Usage and Citation Metrics

We found 379 mentions in open access literature.

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

Du H, et al. (2026) Comparative analysis of the efficacy and safety of antibody?drug conjugates, radionuclide?drug conjugates and their combination targeting claudin 18.2 in gastric cancer treatment. *Oncology reports*, 55(1).

Kerkhoff M, et al. (2026) New cell lines expanding the diversity of Ewing sarcoma models. *International journal of cancer*, 158(3), 642.

Markusson S, et al. (2025) Nanobodies against the myelin enzyme CNPase as tools for structural and functional studies. *Journal of neurochemistry*, 169(1), e16274.

Bhagwat SV, et al. (2025) Imlunestrant Is an Oral, Brain-Penetrant Selective Estrogen Receptor Degrader with Potent Antitumor Activity in ESR1 Wild-Type and Mutant Breast Cancer. *Cancer research*, 85(4), 777.

Almasoudi HH, et al. (2025) Targeting dysregulated molecular pathways in cancer cell lines using small molecule inhibitors as a promising therapeutic strategy. *Scientific reports*, 15(1), 24273.

Lindén K, et al. (2025) Enhanced antimicrobial efficacy by impregnation of vascular grafts with nanocolloidal silver. *JVS-vascular science*, 6, 100286.

Gao C, et al. (2025) Structural basis of a microbial trimethylamine transporter. *mBio*, 16(1), e0191424.

Goldspink L, et al. (2025) Multi-locus phylogenetic network analysis of *Ampelomyces* mycoparasites isolated from diverse powdery mildews in Australia and the generation of two de novo genome assemblies. *PloS one*, 20(12), e0322842.

Connelly KE, et al. (2025) Allelic effects on KLHL17 expression underlie a pancreatic cancer genome-wide association signal at chr1p36.33. *Nature communications*, 16(1), 4055.

Javier-López R, et al. (2025) Transcriptomic and proteomic insights into feather keratin degradation by *Fervidobacterium*. *Frontiers in microbiology*, 16, 1509937.

Roth C, et al. (2025) Structures of β -galactosaminidases from the CAZy GH114 family and homologs defining a new GH191 family of glycosidases. *Acta crystallographica. Section D, Structural biology*, 81(Pt 5), 234.

Forey R, et al. (2025) Cancer cells subvert the primate-specific KRAB zinc finger protein ZNF93 to control APOBEC3B. *Proceedings of the National Academy of Sciences of the United States of America*, 122(34), e2505021122.

Mašláková I, et al. (2025) Evidence of in vitro mecB-mediated β -lactam antibiotic resistance transfer to *Staphylococcus aureus* from *Macrococcus psychrotolerans* sp. nov., a psychrophilic bacterium from food-producing animals and human clinical specimens. *Applied and environmental microbiology*, 91(4), e0165224.

Jepsen VH, et al. (2025) H1-0 is a specific mediator of the repressive ETV6::RUNX1 transcriptional landscape in preleukemia and B cell acute lymphoblastic leukemia. *HemaSphere*, 9(4), e70116.

Oredsson S, et al. (2025) Protocol for the use of Oredsson universal replacement medium for cell banking and routine culturing of monolayer and suspension cultures. *STAR protocols*, 6(2), 103781.

Garcia-Morena D, et al. (2025) In Vitro Influence of Specific Bacteroidales Strains on Gut and Liver Health Related to Metabolic Dysfunction-Associated Fatty Liver Disease. *Probiotics and antimicrobial proteins*, 17(3), 1498.

Wighard S, et al. (2025) Functional divergence of conserved developmental plasticity genes between two distantly related nematodes. *Scientific reports*, 15(1), 28518.

Khan UT, et al. (2025) The unfolded protein response influences therapy outcome and disease progression in chronic lymphocytic leukaemia. *Scientific reports*, 15(1), 27496.

Moye J, et al. (2025) Broad-range necrophytophagy in the flagellate *Orciraptor agilis* (Viridiraptoridae, Cercozoa) and the underappreciated role of scavenging among protists. *The Journal of eukaryotic microbiology*, 72(2), e13065.

Wan Y, et al. (2025) Complete genome assemblies and antibiograms of 22 *Staphylococcus capitis* isolates. *BMC genomic data*, 26(1), 12.