Resource Summary Report

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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 guality 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

Funding:

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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

Source: SciCrunch Registry

Usage and Citation Metrics

We found 356 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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

Daussin A, et al. (2025) Flavobacterium aerium sp. nov., a bacterium isolated from the air of the Icelandic volcanic island Surtsey. International journal of systematic and evolutionary microbiology, 75(1).

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

Mustafa EH, et al. (2024) Selective inhibition of CDK9 in triple negative breast cancer. Oncogene, 43(3), 202.

Zhao L, et al. (2024) Diversity and Functionality of Bacteria Associated with Different Tissues of Spider Heteropoda venatoria Revealed through Integration of High-Throughput Sequencing and Culturomics Approaches. Microbial ecology, 87(1), 67.

Wasko UN, et al. (2024) Tumour-selective activity of RAS-GTP inhibition in pancreatic cancer. Nature, 629(8013), 927.

Robino P, et al. (2024) Effects of a supplemented diet containing 7 probiotic strains (Honeybeeotic) on honeybee physiology and immune response: analysis of hemolymph cytology, phenoloxidase activity, and gut microbiome. Biological research, 57(1), 50.

Srivastava A, et al. (2024) Draft genome sequence of Halobacillus campisalis strain ASL-17. Microbiology resource announcements, 13(2), e0069223.

Martins F, et al. (2024) A Cluster of Evolutionarily Recent KRAB Zinc Finger Proteins Protects Cancer Cells from Replicative Stress-Induced Inflammation. Cancer research, 84(6), 808.

Lara AC, et al. (2024) Lentzea sokolovensis sp. nov., Lentzea kristufekii sp. nov. and Lentzea miocenica sp. nov., rare actinobacteria from Miocene lacustrine sediment of the

Sokolov Coal Basin, Czech Republic. International journal of systematic and evolutionary microbiology, 74(4).

Wang Y, et al. (2024) Repression of the SUMO-conjugating enzyme UBC9 is associated with lowered double minutes and reduced tumor progression. Cancer biology & therapy, 25(1), 2323768.

Weber T, et al. (2024) Preparation of a universally usable, animal product free, defined medium for 2D and 3D culturing of normal and cancer cells. MethodsX, 12, 102592.

Li J, et al. (2024) Hematopoietic stem and progenitor cell membrane-coated vesicles for bone marrow-targeted leukaemia drug delivery. Nature communications, 15(1), 5689.

Lange E, et al. (2024) Microbiome modeling: a beginner's guide. Frontiers in microbiology, 15, 1368377.

Dommann J, et al. (2024) Exposure of gut bacterial isolates to the anthelminthic drugs, ivermectin and moxidectin, leads to antibiotic-like phenotypes of growth inhibition and adaptation. Communications biology, 7(1), 1566.

Zhao L, et al. (2024) Unveiling Diversity and Function: Venom-Associated Microbes in Two Spiders, Heteropoda venatoria and Chilobrachys guangxiensis. Microbial ecology, 87(1), 156.

Javier-López R, et al. (2024) Comparative genomics of Fervidobacterium: a new phylogenomic landscape of these wide-spread thermophilic anaerobes. BMC genomics, 25(1), 1248.

Ko YK, et al. (2024) Enrichment of infection-associated bacteria in the low biomass brain bacteriota of Alzheimer's disease patients. PloS one, 19(2), e0296307.

Sikutova S, et al. (2024) Description of genome sequences of arthropod-associated spirochetes of the genus Entomospira. Microbiology resource announcements, 13(12), e0074024.

Wu Z, et al. (2024) Novel glycosidase from Paenibacillus lactis 154 hydrolyzing the 28-O-?-Dglucopyranosyl ester bond of oleanane-type saponins. Applied microbiology and biotechnology, 108(1), 282.