Resource Summary Report

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BACTIBASE

RRID:SCR_006694
Type: Tool

Proper Citation

BACTIBASE (RRID:SCR_006694)

Resource Information

URL: http://bactibase.pfba-lab-tun.org/main.php

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Description: Data repository of bacteriocin natural antimicrobial peptides and includes data collected from published literature as well as high-throughput datasets. The database provides a manually curated annotation of bacteriocin sequences. New bacteriocin submissions are welcome. Various tools have been incorporated for bacteriocin analysis, such as homology search, multiple sequence alignments, Hidden Markov Models, molecular modelling and retrieval through our taxonomy Browser. BACTIBASE should be a useful tool in food preservation or food safety applications and could have implications for the development of new drugs for medical use. BACTIBASE contains calculated or predicted physicochemical properties of 218 bacteriocins produced by both Gram-positive (194) and Gram-negative bacteria (19). They also note the presence of three bacteriocins from the Archaea domain. The database now comprises 31 genera (2009).

Abbreviations: BACTIBASE

Synonyms: BACTIBASE - database dedicated to bacteriocins

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

Defining Citation: PMID:20105292, PMID:17941971

Keywords: genetics, bacteriocin, chemistry, peptide sequence, data analysis service

Funding: Ministry of Higher Education Scientific Research - Tunisia

Resource Name: BACTIBASE

Resource ID: SCR_006694

Alternate IDs: nlx_54530, r3d100012755

Alternate URLs: https://doi.org/10.17616/R30227

Old URLs: http://bactibase.pfba-lab.org

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260903T234848+0000

Ratings and Alerts

No rating or validation information has been found for BACTIBASE.

No alerts have been found for BACTIBASE.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 39 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Komori Y, et al. (2026) Structural and functional insights into lactobacin A: a novel non-pediocin-like bacteriocin from a Liquorilactobacillus strain related to L. mali. Microbiology spectrum, 14(4), e0138225.

Kujawska M, et al. (2025) Exploring the Potential Probiotic Properties of Bifidobacterium breve DSM 32583-A Novel Strain Isolated from Human Milk. Probiotics and antimicrobial proteins, 17(6), 4171.

Parker JK, et al. (2025) Antibacterial microcins are ubiquitous and functionally diverse across bacterial communities. Nature communications, 16(1), 6048.

González-Gragera E, et al. (2025) Genomic Characterization of Piscicolin CM22 Produced by Carnobacterium maltaromaticum CM22 Strain Isolated from Salmon (Salmo salar). Probiotics and antimicrobial proteins, 17(6), 3826.

Salini F, et al. (2025) Expression of Caseicin from Lacticaseibacillus casei and Lacticaseibacillus zeae Provides Insight into Antilisterial Class IIa Bacteriocins. Probiotics and antimicrobial proteins, 17(6), 3975.

Baars IM, et al. (2025) Exploring the associations between preen oil bacterial, chemical and proteomic profiles of passerines. Antonie van Leeuwenhoek, 118(11), 173.

Appel A, et al. (2025) In Silico Identification and Molecular Characterization of Lentilactobacillus hilgardii Antimicrobial Peptides with Activity Against Carbapenem-Resistant Acinetobacter baumannii. Antibiotics (Basel, Switzerland), 14(10).

Choi DG, et al. (2024) Comparative pangenome analysis of Enterococcus faecium and Enterococcus lactis provides new insights into the adaptive evolution by horizontal gene acquisitions. BMC genomics, 25(1), 28.

Guo L, et al. (2024) Rombocin, a Short Stable Natural Nisin Variant, Displays Selective Antimicrobial Activity against Listeria monocytogenes and Employs a Dual Mode of Action to Kill Target Bacterial Strains. ACS synthetic biology, 13(1), 370.

Zhao X, et al. (2024) Klebicin E, a pore-forming bacteriocin of Klebsiella pneumoniae, exploits the porin OmpC and the Ton system for translocation. The Journal of biological chemistry, 300(3), 105694.

Liu S, et al. (2024) Production of a Bacteriocin Like Protein PEG 446 from Clostridium tyrobutyricum NRRL B-67062. Probiotics and antimicrobial proteins, 16(4), 1411.

Teso-Pérez C, et al. (2023) Circular and L50-like leaderless enterocins share a common ABC-transporter immunity gene. BMC genomics, 24(1), 639.

Khánh CM, et al. (2023) Heterologously expressed SacP23, a novel bacteriocin from Paenibacillus polymyxa #23, is active against methicillin resistant Staphylococcus aureus. Royal Society open science, 10(12), 231119.

Aziz T, et al. (2023) Genome Investigation and Functional Annotation of Lactiplantibacillus plantarum YW11 Revealing Streptin and Ruminococcin-A as Potent Nutritive Bacteriocins against Gut Symbiotic Pathogens. Molecules (Basel, Switzerland), 28(2).

Aldarhami A, et al. (2023) Identification of novel bacteriocin against Staphylococcus and Bacillus species. International journal of health sciences, 17(5), 15.

Darvishi N, et al. (2021) Genomic and proteomic comparisons of bacteriocins in probiotic species Lactobacillus and Bifidobacterium and inhibitory ability of Escherichia coli MG 1655. Biotechnology reports (Amsterdam, Netherlands), 31, e00654.

Barbosa J, et al. (2021) Characterization of a Lactiplantibacillus plantarum R23 Isolated from Arugula by Whole-Genome Sequencing and Its Bacteriocin Production Ability. International journal of environmental research and public health, 18(11).

Onime LA, et al. (2021) The rumen eukaryotome is a source of novel antimicrobial peptides with therapeutic potential. BMC microbiology, 21(1), 105.

Garrido C, et al. (2020) Evidence Supporting an Antimicrobial Origin of Targeting Peptides to Endosymbiotic Organelles. Cells, 9(8).

Burdukiewicz M, et al. (2020) Proteomic Screening for Prediction and Design of Antimicrobial Peptides with AmpGram. International journal of molecular sciences, 21(12).