

Resource Summary Report

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[APD](#)

RRID:SCR_006606

Type: Tool

Proper Citation

APD (RRID:SCR_006606)

Resource Information

URL: <http://aps.unmc.edu/AP/main.php>

Proper Citation: APD (RRID:SCR_006606)

Description: Database and data analysis system dedicated to glossary, nomenclature, classification, information search, prediction, design, and statistics of Antimicrobial peptides and beyond. The peptide data stored in the APD were gleaned from the literature (PubMed, PDB, Google, and Swiss-Prot) manually in the past several years. Peptides will be registered into this database if: # they are from natural sources (bacteria, protozoa, fungi, plants, and animals); # their antimicrobial activities are demonstrated (MIC

Abbreviations: APD, APD2

Synonyms: Antimicrobial Peptide Database, The Antimicrobial Peptide Database

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

Defining Citation: [PMID:18957441](#), [PMID:14681488](#)

Keywords: amino acid, amphibian, antimicrobial peptide, antimicrobial, bacteria, cd, insect, nmr spectroscopy, plant, residue, x-ray diffraction, x-ray crystallography, circular dichroism, protein structure, protein sequence, protein motif, resistant microbe, anticancer, antiviral, antifungal, antibacterial, peptide, peptide family, post-translationally modified peptide, peptide binding target, membrane, protein, dna, rna, lps, sugar, prediction, peptide design, statistics, data analysis service, FASEB list

Funding: University of Nebraska College of Medicine; Nebraska; USA ;
Epplery Institute

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

Resource Name: APD

Resource ID: SCR_006606

Alternate IDs: nif-0000-02553, r3d100012901

Alternate URLs: <https://doi.org/10.17616/R3023M>

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260804T043307+0000

Ratings and Alerts

No rating or validation information has been found for APD.

No alerts have been found for APD.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 207 mentions in open access literature.

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

Taheri MN, et al. (2025) Clotide U1, a Novel Antimicrobial Peptide Isolated From Urtica Dioica Leaves. Bioinformatics and biology insights, 19, 11779322251315291.

Afshari SG, et al. (2025) Discovery of hyde C1 a broad spectrum antimicrobial peptide derived from chicory. Scientific reports, 15(1), 33449.

Chen X, et al. (2024) Exploration of Antimicrobial Peptides in the Treatment of Gentamicin-Resistant Klebsiella pneumoniae Infection. Infection and drug resistance, 17, 2591.

Antony A, et al. (2024) Antimicrobial and antitumor properties of anuran peptide temporin-SHf induce apoptosis in A549 lung cancer cells. Amino acids, 56(1), 12.

Kim J, et al. (2023) Understanding the Roles of Host Defense Peptides in Immune Modulation: From Antimicrobial Action to Potential as Adjuvants. Journal of microbiology and biotechnology, 33(3), 288.

Pimchan T, et al. (2023) Isolation, identification, and mode of action of antibacterial peptides derived from egg yolk hydrolysate. Poultry science, 102(7), 102695.

An M, et al. (2023) A Temporin Derived Peptide Showing Antibacterial and Antibiofilm Activities against Staphylococcus aureus. Protein and peptide letters, 30(2), 183.

Liang Y, et al. (2023) Genome-Wide Identification of Trachinotus ovatus Antimicrobial Peptides and Their Immune Response against Two Pathogen Challenges. Marine drugs,

21(10).

Chehelgerdi M, et al. (2023) Immunoinformatic prediction of potential immunodominant epitopes from cagW in order to investigate protection against *Helicobacter pylori* infection based on experimental consequences. *Functional & integrative genomics*, 23(2), 107.

de Amaral M, et al. (2022) Anurans against SARS-CoV-2: A review of the potential antiviral action of anurans cutaneous peptides. *Virus research*, 315, 198769.

Li Y, et al. (2022) Identification and functional characterization of Cofilin-1 as a new member of antimicrobial protein. *Developmental and comparative immunology*, 127, 104281.

Pinilla G, et al. (2022) In Vitro Antifungal Activity of LL-37 Analogue Peptides against *Candida* spp. *Journal of fungi (Basel, Switzerland)*, 8(11).

Ianevski A, et al. (2022) Seven classes of antiviral agents. *Cellular and molecular life sciences : CMLS*, 79(12), 605.

Athira PP, et al. (2022) A hepatic antimicrobial peptide, hepcidin from Indian major carp, *Catla catla*: molecular identification and functional characterization. *Journal, genetic engineering & biotechnology*, 20(1), 49.

Edwards IA, et al. (2022) Investigations into the membrane activity of arenicin antimicrobial peptide AA139. *Biochimica et biophysica acta. General subjects*, 1866(8), 130156.

Saggese A, et al. (2022) An antimicrobial peptide specifically active against *Listeria monocytogenes* is secreted by *Bacillus pumilus* SF214. *BMC microbiology*, 22(1), 3.

Li Y, et al. (2022) Bioinformatic analysis and antiviral effect of *Periplaneta americana* defensins. *Virus research*, 308, 198627.

Namvar Erbani S, et al. (2021) First report of antifungal activity of CecropinA-Magenin2 (CE-MA) hybrid peptide and its truncated derivatives. *Biochemical and biophysical research communications*, 549, 157.

Rahimi S, et al. (2021) The leishmanicidal effect of *Lucilia sericata* larval saliva and hemolymph on in vitro *Leishmania tropica*. *Parasites & vectors*, 14(1), 40.

Soltanmohammadi B, et al. (2021) Bactericidal fully human single-chain fragment variable antibodies protect mice against methicillin-resistant *Staphylococcus aureus* bacteraemia. *Clinical & translational immunology*, 10(7), e1302.