# **Resource Summary Report**

Generated by FDI Lab - SciCrunch.org on Apr 30, 2025

# <u>APD</u>

RRID:SCR\_006606 Type: Tool

#### **Proper Citation**

APD (RRID:SCR\_006606)

#### **Resource Information**

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

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**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, service resource, database, storage service resource, data or information 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 ; Eppley Institute

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

Resource Name: APD

Resource ID: SCR\_006606

Alternate IDs: nif-0000-02553

**Record Creation Time:** 20220129T080237+0000

Record Last Update: 20250430T055447+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 206 mentions in open access literature.

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

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

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.

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).

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

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.

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.

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.

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.

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

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

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.

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

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.

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.

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.

Neelima S, et al. (2021) Molecular characterization of a novel ?-defensin isoform from the red-toothed trigger fish, Odonus niger (Ruppel, 1836). Journal, genetic engineering & biotechnology, 19(1), 71.