

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 or information resource, data repository, database, service resource, storage 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: 20260829T182245+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 220 mentions in open access literature.

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

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.

Khajornpipat P, et al. (2025) Rational engineering unlocks the therapeutic potential of WHP1: A revolutionary peptide poised to advance wound healing. PloS one, 20(5), e0323363.

Tankrathok A, et al. (2025) Rational Design of PCR12mod6, a Cathelicidin-HR-Derived Peptide with Enhanced Dual-Action Antimicrobial and Antioxidant Activity. ACS omega, 10(36), 41113.

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.

Yuen HL, et al. (2023) Development of a Novel Antibacterial Peptide, PAM-5, via Combination of Phage Display Selection and Computer-Assisted Modification. Biomolecules, 13(3).

Freitas GG, et al. (2023) Purification and Biological Properties of Raniseptins-3 and -6, Two Antimicrobial Peptides from *Boana raniceps* (Cope, 1862) Skin Secretion. *Biomolecules*, 13(3).

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.

Anju MV, et al. (2023) A novel anti-lipopolysaccharide factor from blue swimmer crab *Portunus pelagicus* and its cytotoxic effect on the prokaryotic expression host, *E. coli* on heterologous expression. *Journal, genetic engineering & biotechnology*, 21(1), 22.

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.

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.

Khan Z, et al. (2022) Insight Into Novel Anti-tuberculosis Vaccines by Using Immunoinformatics Approaches. *Frontiers in microbiology*, 13, 866873.

Oyama LB, et al. (2022) In silico identification of two peptides with antibacterial activity against multidrug-resistant *Staphylococcus aureus*. *NPJ biofilms and microbiomes*, 8(1), 58.

Wu D, et al. (2022) The dual antimicrobial and immunomodulatory roles of host defense peptides and their applications in animal production. *Journal of animal science and biotechnology*, 13(1), 141.