Resource Summary Report

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Database of Antimicrobial Activity and Structure of Peptides

RRID:SCR_016600
Type: Tool

Proper Citation

Database of Antimicrobial Activity and Structure of Peptides (RRID:SCR_016600)

Resource Information

URL: https://dbaasp.org

Proper Citation: Database of Antimicrobial Activity and Structure of Peptides (RRID:SCR_016600)

Description: Collection of manually curated data regarding structure and antimicrobial activity of natural and synthetic peptides. Provides the information and analytical resources to develop antimicrobial compounds with the high therapeutic index.

Abbreviations: DBAASP

Synonyms: DataBase of Antimicrobial Activity and Structure of Peptides, Database of Antimicrobial Activity and Structure of Peptides

Resource Type: data or information resource, database

Defining Citation: PMID:26578581, PMID:27060142

Keywords: data, collection, structure, antimicrobial, activity, natural, synthetic, peptide, sequence

Funding: NIAID G2102;
Shota Rustaveli National Science Foundation FR397718014;
International Science and Technology Center

Availability: Free, Freely available

Resource Name: Database of Antimicrobial Activity and Structure of Peptides

Resource ID: SCR_016600

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260729T044422+0000

Ratings and Alerts

No rating or validation information has been found for Database of Antimicrobial Activity and Structure of Peptides.

No alerts have been found for Database of Antimicrobial Activity and Structure of Peptides.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 42 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Bae D, et al. (2025) AI-guided discovery and optimization of antimicrobial peptides through species-aware language model. Briefings in bioinformatics, 26(4).

Monteiro IS, et al. (2025) The First K+-Channel Blocker Described from Tityus fasciolatus Venom: The Purification, Molecular Cloning, and Functional Characterization of ?-KTx4.9 (Tf5). Toxins, 17(2).

Li Y, et al. (2025) BroadAMP-GPT: AI-Driven generation of broad-spectrum antimicrobial peptides for combating multidrug-resistant ESKAPE pathogens. Gut microbes, 17(1), 2523811.

Bahar A, et al. (2025) Antimicrobial peptides for anticancer and antiviral therapy: last promising update. Discover oncology, 16(1), 1991.

Gao H, et al. (2025) DLFea4AMPGen de novo design of antimicrobial peptides by integrating features learned from deep learning models. Nature communications, 16(1), 9134.

Zhang D, et al. (2025) Systematically investigating and identifying bacteriocins in the human gut microbiome. Cell genomics, 5(11), 100983.

Ezer M, et al. (2025) Python-driven impedance profiling on peptide-functionalized biosensor for detection of HIV gp41 envelope protein. 3 Biotech, 15(7), 229.

Eyni A, et al. (2025) Synergistic effect of A novel antimicrobial peptide and silver nanoparticles against drug-resistant P. aeruginosa. AMB Express, 15(1), 171.

Al-Omari AM, et al. (2024) Accelerating antimicrobial peptide design: Leveraging deep learning for rapid discovery. PloS one, 19(12), e0315477.

Baradaran M, et al. (2024) ScorpDb: A Novel Open-Access Database for Integrative Scorpion Toxinology. Toxins, 16(11).

Anwer F, et al. (2024) AbAMPdb: a database of Acinetobacter baumannii specific antimicrobial peptides. Database : the journal of biological databases and curation, 2024.

Fong-Coronado PA, et al. (2024) A Critical Review of Short Antimicrobial Peptides from Scorpion Venoms, Their Physicochemical Attributes, and Potential for the Development of New Drugs. The Journal of membrane biology, 257(3-4), 165.

Aguilera-Puga MDC, et al. (2024) Structure-aware machine learning strategies for antimicrobial peptide discovery. Scientific reports, 14(1), 11995.

Uygun ZO, et al. (2024) Impedimetric antimicrobial peptide biosensor for the detection of human immunodeficiency virus envelope protein gp120. iScience, 27(3), 109190.

Benítez-Prián M, et al. (2024) Diversity and Molecular Evolution of Antimicrobial Peptides in Caecilian Amphibians. Toxins, 16(3).

Gago F, et al. (2023) Computational Approaches to Enzyme Inhibition by Marine Natural Products in the Search for New Drugs. Marine drugs, 21(2).

Freitas CG, et al. (2023) Candida albicans and Antifungal Peptides. Infectious diseases and therapy, 12(12), 2631.

Lima AM, et al. (2022) Plant antimicrobial peptides: An overview about classification, toxicity and clinical applications. International journal of biological macromolecules, 214, 10.

Zakharova E, et al. (2022) Machine Learning Guided Discovery of Non-Hemolytic Membrane Disruptive Anticancer Peptides. ChemMedChem, 17(17), e202200291.

Choi M, et al. (2022) Genomewide Analysis and Biological Characterization of Cathelicidins with Potent Antimicrobial Activity and Low Cytotoxicity from Three Bat Species. Antibiotics (Basel, Switzerland), 11(8).