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: 20260820T054827+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 53 mentions in open access literature.

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

Shehadeh F, et al. (2026) CAMPER: mechanistic artificial intelligence for designing peptides that target MRSA persisters. Nature communications, 17(1).

Han Y, et al. (2026) AMP-36 exhibits potent therapeutic efficacy against MRSA pneumonia through membrane-target mechanism. Scientific reports, 16(1).

Liu H, et al. (2026) MAPLE: interpretable deep learning identifies selective antimicrobial peptides using joint evolutionary-physicochemical analysis. Briefings in bioinformatics, 27(3).

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.

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

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.

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.

Alimbarashvili E, et al. (2024) Small Natural Cyclic Peptides from DBAASP Database. Pharmaceuticals (Basel, Switzerland), 17(7).

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

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

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

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.

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

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.

Cao J, et al. (2024) TG-CDDPM: text-guided antimicrobial peptides generation based on conditional denoising diffusion probabilistic model. Briefings in bioinformatics, 26(1).