

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 18, 2026

PepBank Peptide Database

RRID:SCR_002086

Type: Tool

Proper Citation

PepBank Peptide Database (RRID:SCR_002086)

Resource Information

URL: <http://pepbank.mgh.harvard.edu/>

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Description: A database of peptides based on sequence text mining and public peptide data sources. Only peptides that are 20 amino acids or shorter are stored. Only peptides with available sequences are stored. After submitting a query you can further refine the results using the new heat map retrieval tool to quickly find the entries that are most relevant to you. Text classification helps you find candidate peptides that are related to cancer, cardiovascular diseases, diabetes, apoptosis, angiogenesis and molecular imaging or peptides for which binding data exist.

Synonyms: PepBank

Resource Type: data or information resource, database

Defining Citation: [PMID:17678535](#)

Keywords: amino acid, blast search, peptide, sequence, smith-waterman search

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: PepBank Peptide Database

Resource ID: SCR_002086

Alternate IDs: nif-0000-20887

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260912T200124+0000

Ratings and Alerts

No rating or validation information has been found for PepBank Peptide Database.

No alerts have been found for PepBank Peptide Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Raj N, et al. (2026) Non-Coding DNA-Derived Mimotopes of A??? as Novel Candidates for Alzheimer's Peptide Vaccine Design. International journal of medical sciences, 23(4), 1320.

Zhang Y, et al. (2025) Activity Analysis and Inhibition Mechanism of Four Novel Angiotensin I-Converting Enzyme Inhibitory Peptides Prepared from *Flammulina velutipes* by Enzymatic Hydrolysis. Foods (Basel, Switzerland), 14(15).

Chen D, et al. (2025) Cashew nut oligopeptide inhibits mast cell degranulation by suppressing activation of the NF- κ B signalling pathway. Food chemistry: X, 29, 102839.

Alves DA, et al. (2024) Rho GTPase activating protein 21-mediated regulation of prostate cancer associated 3 gene in prostate cancer cell. Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas, 57, e13190.

Hayes M, et al. (2023) Generation of Bioactive Peptides from *Porphyridium* sp. and Assessment of Their Potential for Use in the Prevention of Hypertension, Inflammation and Pain. Marine drugs, 21(8).

Tretter C, et al. (2023) Proteogenomic analysis reveals RNA as a source for tumor-agnostic neoantigen identification. Nature communications, 14(1), 4632.

Zhou L, et al. (2023) In Silico Prospecting for Novel Bioactive Peptides from Seafoods: A Case Study on Pacific Oyster (*Crassostrea gigas*). Molecules (Basel, Switzerland), 28(2).

Wang R, et al. (2022) Optimisation and Characterisation of Novel Angiotensin-Converting Enzyme Inhibitory Peptides Prepared by Double Enzymatic Hydrolysis from *Agaricus bisporus* Scraps. Foods (Basel, Switzerland), 11(3).

Hayes M, et al. (2022) Identification of Bioactive Peptides from *Nannochloropsis oculata* Using a Combination of Enzymatic Treatment, in Silico Analysis and Chemical Synthesis. Biomolecules, 12(12).

Wang W, et al. (2021) Changes in the extent and products of In vitro protein digestion during the ripening periods of Chinese dry-cured hams. Meat science, 171, 108290.

Chernukha I, et al. (2021) Bioactive Compounds of Porcine Hearts and Aortas May Improve Cardiovascular Disorders in Humans. *International journal of environmental research and public health*, 18(14).

Santos BPO, et al. (2021) Schistocins: Novel antimicrobial peptides encrypted in the *Schistosoma mansoni* Kunitz Inhibitor SmKI-1. *Biochimica et biophysica acta. General subjects*, 1865(11), 129989.

Arruda GLM, et al. (2021) Box Jellyfish (Cnidaria, Cubozoa) Extract Increases Neuron's Connection: A Possible Neuroprotector Effect. *BioMed research international*, 2021, 8855248.

Asar MC, et al. (2020) Phage Display Selection, Identification, and Characterization of Novel Pancreatic Cancer Targeting Peptides. *Biomolecules*, 10(5).

Diniz LCL, et al. (2020) Two Tachykinin-Related Peptides with Antimicrobial Activity Isolated from *Triatoma infestans* Hemolymph. *Microbiology insights*, 13, 1178636120933635.

Fraser BA, et al. (2020) A novel approach to nonsurgical sterilization; application of menadione-modified gonocyte-targeting M13 bacteriophage for germ cell ablation in utero. *Pharmacology research & perspectives*, 8(5), e00654.

Kleekayai T, et al. (2020) In Vitro Characterisation of the Antioxidative Properties of Whey Protein Hydrolysates Generated under pH- and Non pH-Controlled Conditions. *Foods (Basel, Switzerland)*, 9(5).

Arroyo-Loranca RG, et al. (2020) Ps19, a novel chitin binding protein from *Pteridaster sterna* capable to mineralize aragonite plates in vitro. *PloS one*, 15(3), e0230431.

Zheng Y, et al. (2019) Isolation of Novel ACE-Inhibitory and Antioxidant Peptides from Quinoa Bran Albumin Assisted with an In Silico Approach: Characterization, In Vivo Antihypertension, and Molecular Docking. *Molecules (Basel, Switzerland)*, 24(24).

Montone CM, et al. (2019) Peptidomic Approach for the Identification of Peptides with Potential Antioxidant and Anti-Hypertensive Effects Derived From Asparagus By-Products. *Molecules (Basel, Switzerland)*, 24(19).