

Resource Summary Report

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SDAP: Structural Database of Allergenic Proteins

RRID:SCR_012806

Type: Tool

Proper Citation

SDAP: Structural Database of Allergenic Proteins (RRID:SCR_012806)

Resource Information

URL: <http://fermi.utmb.edu/SDAP>

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Description: A database of allergenic proteins. It contains various computational tools that can assist structural biology studies related to allergens. SDAP is an important tool in the investigation of the cross-reactivity between known allergens, in testing the FAO/WHO allergenicity rules for new proteins, and in predicting the IgE-binding potential of genetically modified food proteins. Using this Internet service through a browser, it is possible to retrieve information related to an allergen from the most common protein sequence and structure databases (SwissProt, PIR, NCBI, PDB), to find sequence and structural neighbors for an allergen, and to search for the presence of an epitope other the whole collection of allergens.

Abbreviations: SDAP

Synonyms: Structural Database of Allergenic Proteins

Resource Type: data or information resource, database

Resource Name: SDAP: Structural Database of Allergenic Proteins

Resource ID: SCR_012806

Alternate IDs: nif-0000-03446

Record Creation Time: 20220129T080312+0000

Record Last Update: 20260820T054732+0000

Ratings and Alerts

No rating or validation information has been found for SDAP: Structural Database of Allergenic Proteins.

No alerts have been found for SDAP: Structural Database of Allergenic Proteins.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Basmenj ER, et al. (2025) Computational epitope-based vaccine design with bioinformatics approach; a review. *Heliyon*, 11(1), e41714.

Wei Y, et al. (2024) Advances of computational methods enhance the development of multi-epitope vaccines. *Briefings in bioinformatics*, 26(1).

Sundararaj R, et al. (2024) In silico approaches for the identification of potential allergens among hypothetical proteins from *Alternaria alternata* and its functional annotation. *Scientific reports*, 14(1), 6696.

Randhawa IS, et al. (2023) Food anaphylaxis diagnostic marker compilation in machine learning design and validation. *PloS one*, 18(4), e0283141.

Kronfel CM, et al. (2022) IgE epitopes of Ara h 9, Jug r 3, and Pru p 3 in peanut-allergic individuals from Spain and the US. *Frontiers in allergy*, 3, 1090114.

Mishra A, et al. (2021) Mapping B-Cell Epitopes for Nonspecific Lipid Transfer Proteins of Legumes Consumed in India and Identification of Critical Residues Responsible for IgE Binding. *Foods (Basel, Switzerland)*, 10(6).

Jeon YH, et al. (2020) Pollen-food allergy syndrome in children. *Clinical and experimental pediatrics*, 63(12), 463.

Jiang C, et al. (2018) Dynamic Human Environmental Exposome Revealed by Longitudinal Personal Monitoring. *Cell*, 175(1), 277.

Sharma A, et al. (2017) Comparative and Evolutionary Analysis of Grass Pollen Allergens Using *Brachypodium distachyon* as a Model System. *PloS one*, 12(1), e0169686.

Kadam K, et al. (2017) AllerBase: a comprehensive allergen knowledgebase. *Database : the journal of biological databases and curation*, 2017.

Wang J, et al. (2013) Evaluation and integration of existing methods for computational prediction of allergens. *BMC bioinformatics*, 14 Suppl 4(Suppl 4), S1.

Sharma P, et al. (2013) In silico identification of IgE-binding epitopes of osmotin protein. PloS one, 8(1), e54755.

Sircar G, et al. (2012) Identification of aero-allergens from *Rhizopus oryzae*: an immunoproteomic approach. Journal of proteomics, 77, 455.

Menezes SP, et al. (2012) Evaluation of the allergenicity potential of TcPR-10 protein from *Theobroma cacao*. PloS one, 7(6), e37969.

Woo CK, et al. (2011) Not all shellfish "allergy" is allergy! Clinical and translational allergy, 1(1), 3.

Tomar N, et al. (2010) Immunoinformatics: an integrated scenario. Immunology, 131(2), 153.

Faeste CK, et al. (2010) Characterization of potential allergens in fenugreek (*Trigonella foenum-graecum*) using patient sera and MS-based proteomic analysis. Journal of proteomics, 73(7), 1321.

Ahmed A, et al. (2010) In Silico Identification of Potential American Cockroach (*Periplaneta americana*) Allergens. Iranian journal of public health, 39(3), 109.

Tong JC, et al. (2009) Immunoinformatics: current trends and future directions. Drug discovery today, 14(13-14), 684.

Zeldin DC, et al. (2006) How exposures to biologics influence the induction and incidence of asthma. Environmental health perspectives, 114(4), 620.