

Resource Summary Report

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Allergen Database for Food Safety

RRID:SCR_008626

Type: Tool

Proper Citation

Allergen Database for Food Safety (RRID:SCR_008626)

Resource Information

URL: <http://allergen.nihs.go.jp/ADFS/>

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Description: ADFS is a web server system that integrates a database of allergenic proteins for food safety. This allergen database for food safety was launched as a project of the Novel Foods and Immunochemistry of National Institute of Health Sciences, and this project was partly supported by a grant from the Ministry of Health, Labor and Welfare. To survey the sequence homology in assessing a potential of allergenicity of a protein in the food, the database has been constructed to include known allergens and B-cell epitope sequences. This database includes 13 (aero animal, aero fungi, aero insect, aero mite, aero plant, contact, food animal, food fungi, food plant, gliadin, protozoan, venom/salivary, and worm) categorized allergens based on allergen type in AllergenOnline, with their accession numbers, epitope information, 3D-structure information, and sugar-containing information. This site also provides sequence search tools for obtaining the sequence homology of a certain protein or peptide relating to allergens (BLAST, epitope(peptide) search). Furthermore, this site provides allergenicity prediction tools of a certain protein (FAO/WHO method, Motif-based method).

Synonyms: ADFS

Resource Type: data or information resource, database

Resource Name: Allergen Database for Food Safety

Resource ID: SCR_008626

Alternate IDs: nif-0000-31995

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260912T200200+0000

Ratings and Alerts

No rating or validation information has been found for Allergen Database for Food Safety.

No alerts have been found for Allergen Database for Food Safety.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Zhang C, et al. (2025) A general lightweight image super-resolution with sharpening enhancement and double attention network. Scientific reports, 15(1), 40848.

Saad H, et al. (2024) Removal of bromophenol blue from polluted water using a novel azo-functionalized magnetic nano-adsorbent. RSC advances, 14(2), 1316.

Zanon Agapito-Tenfen S, et al. (2021) Untargeted Proteomics-Based Approach to Investigate Unintended Changes in Genetically Modified Maize for Environmental Risk Assessment Purpose. Frontiers in toxicology, 3, 655968.

Tung CH, et al. (2021) NlgPred: Class-Specific Antibody Prediction for Linear B-Cell Epitopes Based on Heterogeneous Features and Machine-Learning Approaches. Viruses, 13(8).

Khairkhah N, et al. (2020) Design of novel multiepitope constructs-based peptide vaccine against the structural S, N and M proteins of human COVID-19 using immunoinformatics analysis. PloS one, 15(10), e0240577.

Ghasem Zadeh Khorasani M, et al. (2019) Short- and Long-Range Mechanical and Chemical Interphases Caused by Interaction of Boehmite (?-AlOOH) with Anhydride-Cured Epoxy Resins. Nanomaterials (Basel, Switzerland), 9(6).

Ghasem Zadeh Khorasani M, et al. (2019) Insights into Nano-Scale Physical and Mechanical Properties of Epoxy/Boehmite Nanocomposite Using Different AFM Modes. Polymers, 11(2).

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

Varallo FR, et al. (2017) Imputation of adverse drug reactions: Causality assessment in hospitals. PloS one, 12(2), e0171470.

Valenta R, et al. (2015) Food allergies: the basics. Gastroenterology, 148(6), 1120.

Juhász A, et al. (2015) ProPepper: a curated database for identification and analysis of peptide and immune-responsive epitope composition of cereal grain protein families.

Database : the journal of biological databases and curation, 2015.

Schein CH, et al. (2010) An Allergen Portrait Gallery: Representative Structures and an Overview of IgE Binding Surfaces. Bioinformatics and biology insights, 4, 113.