

Resource Summary Report

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Animal Toxin Database

RRID:SCR_007035

Type: Tool

Proper Citation

Animal Toxin Database (RRID:SCR_007035)

Resource Information

URL: <http://protchem.hunnu.edu.cn/toxin/>

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Description: Database of animal toxins, this most recent release (2009) focused on constructing a global-scale animal toxin-channel interaction network based on literature and database annotations through the integration of an ion channel database into ATDB 2.0. Most ion channel sequences were categorized and annotated with a hierarchic controlled term system (Ion Channel Ontology). More than 55,022 possible T-C interactions were extracted by text mining which link the toxin and ion channel database. These interaction data were classified carefully based on evidence type, in which 9,193 high confidence interactions were annotated in active site level. A web-based T-C interaction network view was build to visualize and make data access easy. The features and updates of ATDB 2.0 are summarized as follows: # AN interaction dataset including 55,022 toxin-channel interactions # Ion channel database (5,097 entries) # Ontology for ion channel classification (Ion Channel Ontology) # 3000 maps for toxins and ion channels interaction # More than 600 additional toxin entries # PDB view to visualize 3-D structure of molecule # More flexible option for data downloads. You may submit new toxins to the database.

Abbreviations: ATDB

Resource Type: ontology, data or information resource, controlled vocabulary, database, service resource, storage service resource, data repository

Defining Citation: [PMID:17933766](#), [PMID:20685369](#)

Keywords: toxin, ion channel, interaction, blast, ligand, 3d structure, data analysis service

Funding: National Laboratory of Protein Engineering and Plant Genetic Engineering at Peking University ;
National Science Foundation of China 30430170;
National Science Foundation of China 30670640

Availability: Free, For Public, Non-Profits, Academic Institutions, And Private Individuals using the GNU General Public License, The community can contribute to this resource

Resource Name: Animal Toxin Database

Resource ID: SCR_007035

Alternate IDs: nlx_62001

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260808T185846+0000

Ratings and Alerts

No rating or validation information has been found for Animal Toxin Database.

No alerts have been found for Animal Toxin Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Kaas Q, et al. (2015) Bioinformatics-Aided Venomics. Toxins, 7(6), 2159.

Jungo F, et al. (2010) Animal Toxins: How is Complexity Represented in Databases? Toxins, 2(2), 262.