

Resource Summary Report

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ExTopoDB

RRID:SCR_013143

Type: Tool

Proper Citation

ExTopoDB (RRID:SCR_013143)

Resource Information

URL: <http://bioinformatics.biol.uoa.gr/ExTopoDB/>

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Description: A publicly accessible database of experimentally derived topological models of transmembrane proteins. It contains experimental information about the topology of 2143 transmembrane proteins. This information was collected from studies in the literature that reported the use of biochemical methods for the determination of the topology of transmembrane proteins. Each record contains unique information about the given protein, such as its sequence, cross-references to many publicly available databases worldwide, the protein's name and organism source. The web interface of the database offers the user the ability to submit advanced queries for text search within ExTopoDB's protein entries and there is also an interface for running BLAST against the database. Furthermore, the results of topology prediction using the HMM-TM algorithm are included for each protein in the database (unconstrained prediction) and we also incorporated the experimental information about the topology of the proteins in the HMM-TM prediction procedure, producing more reliable topology models (constrained prediction).

Abbreviations: ExTopoDB

Resource Type: data or information resource, database

Defining Citation: [PMID:20601677](#)

Keywords: transmembrane protein, protein structure, topological model, blast, transmembrane, protein, model

Availability: Public

Resource Name: ExTopoDB

Resource ID: SCR_013143

Alternate IDs: nlx_151724

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260905T133204+0000

Ratings and Alerts

No rating or validation information has been found for ExTopoDB.

No alerts have been found for ExTopoDB.

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 [NIF](#) .

Holliday GL, et al. (2015) Key challenges for the creation and maintenance of specialist protein resources. Proteins, 83(6), 1005.

Fluman N, et al. (2014) mRNA-programmed translation pauses in the targeting of E. coli membrane proteins. eLife, 3.