

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

Evolutionary Lineage Inferred from Structural Analysis

RRID:SCR_002343

Type: Tool

Proper Citation

Evolutionary Lineage Inferred from Structural Analysis (RRID:SCR_002343)

Resource Information

URL: <http://romi.bu.edu/elisa/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented August 23, 2016. ELISA is an online database that combines functional annotation with structure and sequence homology modeling to place proteins into sequence-structure-function neighborhoods. The atomic unit of the database is a set of sequences and structural templates that those sequences encode. A graph that is built from the structural comparison of these templates is called PDUG (protein domain universe graph). It introduces a method of functional inference through a probabilistic calculation done on an arbitrary set of PDUG nodes. Further, all PDUG structures are mapped onto all fully sequenced proteomes allowing an easy interface for evolutionary analysis and research into comparative proteomics. ELISA is the first database with applicability to evolutionary structural genomics explicitly in mind.

Synonyms: ELISA

Resource Type: database, data or information resource

Defining Citation: [PMID:12952559](#)

Keywords: evolutionary, function, functional, analysis, annotation, atomic unit, calculation, comparative, domain, genomic, homology, modeling, place, probabilistic, protein, protein domain and protein classification databases, proteome, proteomic, sequence, structural, structure, template

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Evolutionary Lineage Inferred from Structural Analysis

Resource ID: SCR_002343

Alternate IDs: nif-0000-21141

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260808T190353+0000

Ratings and Alerts

No rating or validation information has been found for Evolutionary Lineage Inferred from Structural Analysis.

No alerts have been found for Evolutionary Lineage Inferred from Structural Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Shakhnovich BE, et al. (2003) ELISA: structure-function inferences based on statistically significant and evolutionarily inspired observations. BMC bioinformatics, 4, 34.