

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

Genomic Distribution of structural Superfamilies

RRID:SCR_007670

Type: Tool

Proper Citation

Genomic Distribution of structural Superfamilies (RRID:SCR_007670)

Resource Information

URL: <http://caps.ncbs.res.in/gendis/home.html>

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Description: Genomic Distribution of structural Superfamilies identifies and classifies evolutionary related proteins at the superfamily level in whole genome databases. GenDiS has been curated in direct correspondence with SCOP and represents 4001 highly resolved domains in 1194 structural superfamilies across protein sequence databases. Sequences showing reliable homology to entries in SCOP and PASS2 databases have been obtained from the non-redundant protein sequence database and aligned. Similar alignments of the superfamily members are provided in the genome level. GenDiS provides a platform for cross genome comparison at the superfamily level. GenDiS relates proteins sequence information across all strata of taxonomy. One may navigate through the database to obtain structural homologues across different levels in taxonomic classification. The nomenclature of the various genomes and their hierarchy is in direct correspondence with the taxonomy database maintained at the NCBI. Sequence homologues for the various structural members are obtained from the non-redundant protein sequence database employing sensitive sequence search methods. Multiple approaches such as PSI-BLAST, HMMsearch of the HMMer suite and an interacting motif constrained PHI-BLAST have been employed to identify homologues in the sequence databases.

Synonyms: GenDiS

Resource Type: database, data or information resource

Keywords: protein, protein superfamily

Resource Name: Genomic Distribution of structural Superfamilies

Resource ID: SCR_007670

Alternate IDs: nif-0000-02874

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260725T191147+0000

Ratings and Alerts

No rating or validation information has been found for Genomic Distribution of structural Superfamilies.

No alerts have been found for Genomic Distribution of structural Superfamilies.

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](#) .

Joshi S, et al. (2025) GenDiS3 database: census on the prevalence of protein domain superfamilies of known structure in the entire sequence database. Database : the journal of biological databases and curation, 2025.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.