

Resource Summary Report

Generated by [ASWG](#) on Aug 2, 2026

FunSimMat

RRID:SCR_002729

Type: Tool

Proper Citation

FunSimMat (RRID:SCR_002729)

Resource Information

URL: <http://funsimmat.bioinf.mpi-inf.mpg.de>

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Description: FunSimMat is a comprehensive resource of semantic and functional similarity values. It allows ranking disease candidate proteins for OMIM diseases and searching for functional similarity values for proteins (extracted from UniProt), and protein families (Pfam, SMART). FunSimMat provides several different semantic and functional similarity measures for each protein pair using the Gene Ontology annotation from UniProtKB and the Gene Ontology Annotation project at EBI (GOA). There are several search options available: Disease candidate prioritization: * Rank candidate proteins using any OMIM disease entry * Compare a list of proteins to any OMIM disease entry * Compare all human proteins to any OMIM disease entry Functional similarity: * Compare one protein / protein family to a list of proteins / protein families * Compare a list of GO terms to a list of proteins / protein families Semantic similarity: * For a list of GO terms, FunSimMat performs an all-against-all comparison and displays the semantic similarity values. FunSimMat provides an XML-RPC interface for performing automatic queries and processing of the results as well as a RestLike Interface. Platform: Online tool

Abbreviations: FunSimMat

Synonyms: FunSimMat - Functional Similarity Matrix

Resource Type: data analysis service, data or information resource, data access protocol, database, service resource, production service resource, software resource, analysis service resource, web service

Defining Citation: [PMID:19923227](#), [PMID:17932054](#)

Keywords: functional similarity value, protein family, protein similarity, semantic similarity value, similarity value, functional similarity, disease gene candidate prioritization, disease, protein, protein family, disease candidate prioritization, semantic similarity, gene ontology, visualization, annotation, database or data warehouse

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Klinische Forschergruppe KFO 129/1-1;
Klinische Forschergruppe KFO 129/1-2;
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Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: FunSimMat

Resource ID: SCR_002729

Alternate IDs: nif-0000-02860

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260801T190215+0000

Ratings and Alerts

No rating or validation information has been found for FunSimMat.

No alerts have been found for FunSimMat.

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 [ASWG](#) .

Dohrmann J, et al. (2015) Global multiple protein-protein interaction network alignment by combining pairwise network alignments. BMC bioinformatics, 16 Suppl 13(Suppl 13), S11.