

Resource Summary Report

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ProteinOn

RRID:SCR_005740

Type: Tool

Proper Citation

ProteinOn (RRID:SCR_005740)

Resource Information

URL: <http://www.lasige.di.fc.ul.pt/webtools/proteinon/>

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Description: ProteinOn calculates semantic similarity between GO terms or proteins annotated with GO terms. It also calculates term enrichment of protein sets, by applying a term representativity score, and gives additional information on protein interactions. The query compute protein semantic similarity returns the semantic similarity scores between all proteins entered, in matrix format. The option Measure allows users to choose one of several semantic similarity measures: Resnik, Lin, or Jiang & Conrath's measures with or without the DCA approach, plus the graph-based simUI and simGIC measures. These measures are listed by order of performance as evaluated with protein sequence similarity. The option GO type allows users to choose one of the aspects of GO: molecular function, biological process and cellular component. The option Ignore IEA limits the query to non-electronic annotations, excluding evidence types: IEA, NAS, ND, NR.

Synonyms: Protein Interactions Ontology, ProteinOn - Protein Interactions and Ontology, Protein Interactions and Ontology

Resource Type: analysis service resource, data analysis service, production service resource, service resource

Keywords: protein, ontology, gene ontology, annotation, statistical analysis, term enrichment, protein interaction, semantic similarity, other analysis

Availability: Free for academic use

Resource Name: ProteinOn

Resource ID: SCR_005740

Alternate IDs: nlx_149206

Record Creation Time: 20220129T080232+0000

Record Last Update: 20260912T200139+0000

Ratings and Alerts

No rating or validation information has been found for ProteinOn.

No alerts have been found for ProteinOn.

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](#) .

Guthmiller JJ, et al. (2020) Polyreactive Broadly Neutralizing B cells Are Selected to Provide Defense against Pandemic Threat Influenza Viruses. Immunity, 53(6), 1230.

Simoes T, et al. (2011) Molecular profiling of the human nasal epithelium: A proteomics approach. Journal of proteomics, 75(1), 56.