

Resource Summary Report

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3D-Interologs

RRID:SCR_003101

Type: Tool

Proper Citation

3D-Interologs (RRID:SCR_003101)

Resource Information

URL: <http://gemdock.life.nctu.edu.tw/3D-Interologs>

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Description: Database of physical protein-protein interactions across multiple genomes. Based on 3D-domain interolog mapping and a scoring function, protein-protein interactions are inferred by using three-dimensional (3D) structure heterodimers to search the UniProt database. For a query protein, the database utilizes BLAST to identify homologous proteins and the interacting partners from multiple species. Based on the scoring function and structure complexes, it provides the statistic significances, the interacting models (e.g. hydrogen bonds and conserved amino acids), and functional annotations of interacting partners of a query protein. The identification of orthologous proteins of multiple species allows the study of protein-protein evolution, protein functions, and cross-referencing of proteins.

Abbreviations: 3D-interologs

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:21143789](#)

Keywords: interolog, protein-protein interaction, blast, homolog, protein, interaction, function

Availability: Resource:OMICtools, Resource:UniProt

Resource Name: 3D-Interologs

Resource ID: SCR_003101

Alternate IDs: nif-0000-00554, OMICS_01896

Alternate URLs: <https://bmcbgenomics.biomedcentral.com/articles/10.1186/1471-2164-11-S3-S7>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260829T182122+0000

Ratings and Alerts

No rating or validation information has been found for 3D-Interologs.

No alerts have been found for 3D-Interologs.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.