Resource Summary Report

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GOTaxExplorer

RRID:SCR_005720

Type: Tool

Proper Citation

GOTaxExplorer (RRID:SCR_005720)

Resource Information

URL: http://www.gotaxexplorer.de/

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Description: GOTaxExplorer presents a new approach to comparative genomics that integrates functional information and families with the taxonomic classification. It integrates UniProt, Gene Ontology, NCBI Taxonomy, Pfam and SMART in one database. GOTaxExplorer provides four different query types: selection of entity sets, comparison of sets of Pfam families, semantic comparison of sets of GO terms, functional comparison of sets of gene products. This permits to select custom sets of GO terms, families or taxonomic groups. For example, it is possible to compare arbitrarily selected organisms or groups of organisms from the taxonomic tree on the basis of the functionality of their genes. Furthermore, it enables to determine the distribution of specific molecular functions or protein families in the taxonomy. The comparison of sets of GO terms allows to assess the semantic similarity of two different GO terms. The functional comparison of gene products makes it possible to identify functionally equivalent and functionally related gene products from two organisms on the basis of GO annotations and a semantic similarity measure for GO. Platform: Online tool, Windows compatible, Mac OS X compatible, Linux compatible, Unix compatible

Abbreviations: GOTaxExplorer

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

Defining Citation: PMID:17346342

Keywords: gene, molecular function, protein family, taxonomy, visualization, functional similarity, semantic similarity, analysis, comparative genomics analysis, comparative

genomics, search engine, ontology or annotation search engine, ontology or annotation visualization, database or data warehouse, function, other analysis

Funding: German National Genome Research Network;

BMBF 016R0453; DFG KFO 129/1-1;

European Union contract LSHG-CT-2003-503265

Availability: Free for academic use

Resource Name: GOTaxExplorer

Resource ID: SCR_005720

Alternate IDs: nlx_149179

Record Creation Time: 20220129T080232+0000

Record Last Update: 20250517T055718+0000

Ratings and Alerts

No rating or validation information has been found for GOTaxExplorer.

No alerts have been found for GOTaxExplorer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.