

# Resource Summary Report

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## GOTaxExplorer

RRID:SCR\_005720

Type: Tool

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### Proper Citation

GOTaxExplorer (RRID:SCR\_005720)

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### 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:** analysis service resource, data analysis service, data or information resource, database, production service resource, service 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:** 20260821T193747+0000

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## Ratings and Alerts

No rating or validation information has been found for GOTaxExplorer.

No alerts have been found for GOTaxExplorer.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.