|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | The mission of the PANTHER knowledgebase is to support biomedical and other research by providing **comprehensive information about the evolution of protein-coding gene families**, particularly protein phylogeny, function and genetic variation impacting that function. [Learn more](http://pantherdb.org/about.jsp) | | | | | | | | | |
| **PANTHER selected as a** [**Global Core Biodata Resource**](https://globalbiodata.org/scientific-activities/global-core-biodata-resources)**.** [**Click**](http://pantherdb.org/news/news20221215.jsp) **for more details.** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Top of Form   |  |  | | --- | --- | |  |  |   Bottom of Form | | | | | | | |
| Top of Form   |  | | --- | | [Go](javascript:submitQuickSearch();) |   Bottom of Form | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | [Home](http://pantherdb.org/) |  | [About](http://pantherdb.org/about.jsp) |  | [Data Version](http://pantherdb.org/data/) |  | [Tools](http://pantherdb.org/tools/index.jsp) |  | [API/Services](http://pantherdb.org/services/index.jsp) |  | [Publications](http://pantherdb.org/publications.jsp) |  | [Workspace](http://pantherdb.org/workspace/) |  | [Downloads](http://pantherdb.org/downloads/index.jsp) |  | [FAQ/Help/Tutorial](http://pantherdb.org/help/PANTHERhelp.jsp) | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | [Login](http://pantherdb.org/loginRequired.jsp?access=true) |  | [Register](http://pantherdb.org/registration.jsp) |  | [Contact us](http://pantherdb.org/feedback.jsp) | | | | | | | |
|  | | | | | | | |

|  |  |
| --- | --- |
|  | Current Release: [**PANTHER 17.0**](http://pantherdb.org/news/news20220223.jsp)  |  [**15,619**](http://pantherdb.org/panther/index.jsp) family phylogenetic trees  |  [**143**](http://pantherdb.org/panther/summaryStats.jsp) species  |  [News](http://pantherdb.org/news/news20221215.jsp)   [Whole genome function views](http://pantherdb.org/servlet/GenomeFunctionChartServlet?chartType=1&listType=1&annotType=5&species=Homo%20sapiens) |

Analysis Summary: Please report in publication [Tips](javascript:;)

Top of Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Analysis Type:** PANTHER Overrepresentation Test (Released 20221013) | |  | |  | | **Annotation Version and Release Date:** GO Ontology database DOI: 10.5281/zenodo.6799722 Released 2022-07-01 | |  | | |  |  |  |  | | --- | --- | --- | --- | | **Analyzed List:** | |  | | --- | | upload\_1 (Homo sapiens) | | [Change](http://pantherdb.org/tools/uploadFiles.jsp) | |  | | | | **Reference List:** | |  | | --- | | Homo sapiens (all genes in database) | | [Change](javascript:uploadRefFile();) | | | |  |  | | **Annotation Data Set:** | | |

Bottom of Form

Top of Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | [Tips](javascript:;) | | |  |  | | **Test Type:** Fisher's Exact   Binomial | | | |  |  |  | | **Correction:** Calculate False Discovery Rate   Use the Bonferroni correction for multiple testing  [Tips](javascript:;)   No correction | | | |

Bottom of Form

Results [Tips](javascript:;)

Top of Form

|  |
| --- |
|  |

|  |  |  |
| --- | --- | --- |
|  | Reference list | upload\_1 |
| Uniquely Mapped IDS: | [20589](http://pantherdb.org/tools/gxIdsList.do?reflist=1) out of 20589 | [538](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) out of 941 |
| Unmapped IDs: | [0](http://pantherdb.org/tools/unmappedBinom.jsp?refList=1) | [399](http://pantherdb.org/tools/unmappedBinom.jsp?listName=upload_1) |
| Multiple mapping information: | 0 | [453](http://pantherdb.org/tools/multipleMap.jsp?&listName=upload_1) |

Export  [Table](http://pantherdb.org/tools/compareToRefListTxt.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy)  [XML with user input ids](http://pantherdb.org/tools/exportCompareToRefList.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy&format=xml)  [JSON with user input ids](http://pantherdb.org/tools/exportCompareToRefList.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy&format=json)   
  
Displaying only results for FDR P < 0.05, [click here to display all results](http://pantherdb.org/tools/compareToRefList.jsp?&showAll=true)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | [Homo sapiens](http://pantherdb.org/tools/gxIdsList.do?reflist=1) (REF) | [upload\_1](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) ( [Hierarchy](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1)  NEW! [Tips](javascript:;)) | | | | | | | [GO biological process complete](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=categories) | [#](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=Homo%20sapiens) | [#](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=num) | [expected](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=exp) | [Fold Enrichment](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=foldEnrich) | [+/-](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1&sortField=rep) | [raw P value](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1&sortField=pval) | [FDR](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=fdr) | | [regulation of centriole-centriole cohesion](http://amigo.geneontology.org/amigo/term/GO:0030997) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030997&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030997&list=upload_1&organism=Homo%20sapiens) | .14 | 21.88 | + | 1.51E-03 | 2.33E-02 | | [microtubule-based process](http://amigo.geneontology.org/amigo/term/GO:0007017) | [809](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&list=upload_1&organism=Homo%20sapiens) | 36.97 | 1.76 | + | 2.98E-05 | 8.30E-04 | | [cellular process](http://amigo.geneontology.org/amigo/term/GO:0009987) | [15044](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&reflist=1) | [853](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&list=upload_1&organism=Homo%20sapiens) | 687.57 | 1.24 | + | 1.28E-39 | 6.69E-36 | | [microtubule cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0000226) | [547](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&list=upload_1&organism=Homo%20sapiens) | 25.00 | 1.92 | + | 5.84E-05 | 1.51E-03 | | [cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0007010) | [1240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&reflist=1) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&list=upload_1&organism=Homo%20sapiens) | 56.67 | 1.71 | + | 7.79E-07 | 3.05E-05 | | [organelle organization](http://amigo.geneontology.org/amigo/term/GO:0006996) | [3026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&reflist=1) | [216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&list=upload_1&organism=Homo%20sapiens) | 138.30 | 1.56 | + | 5.36E-11 | 4.04E-09 | | [cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0016043) | [5523](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&reflist=1) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&list=upload_1&organism=Homo%20sapiens) | 252.42 | 1.48 | + | 4.89E-17 | 7.67E-15 | | [cellular component organization or biogenesis](http://amigo.geneontology.org/amigo/term/GO:0071840) | [5727](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&reflist=1) | [385](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&list=upload_1&organism=Homo%20sapiens) | 261.75 | 1.47 | + | 4.02E-17 | 6.37E-15 | | [cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0022402) | [841](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&list=upload_1&organism=Homo%20sapiens) | 38.44 | 1.69 | + | 8.57E-05 | 2.10E-03 | | [cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007049) | [1249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&reflist=1) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&list=upload_1&organism=Homo%20sapiens) | 57.08 | 1.93 | + | 2.75E-10 | 1.86E-08 | | [regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0010564) | [715](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&list=upload_1&organism=Homo%20sapiens) | 32.68 | 2.45 | + | 4.68E-12 | 4.15E-10 | | [regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0051726) | [1122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&reflist=1) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&list=upload_1&organism=Homo%20sapiens) | 51.28 | 2.16 | + | 2.74E-13 | 2.91E-11 | | [regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0050794) | [11187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&reflist=1) | [684](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&list=upload_1&organism=Homo%20sapiens) | 511.29 | 1.34 | + | 1.18E-29 | 6.60E-27 | | [regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0050789) | [11806](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&reflist=1) | [704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&list=upload_1&organism=Homo%20sapiens) | 539.58 | 1.30 | + | 9.69E-28 | 4.22E-25 | | [biological regulation](http://amigo.geneontology.org/amigo/term/GO:0065007) | [12544](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&reflist=1) | [737](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&list=upload_1&organism=Homo%20sapiens) | 573.31 | 1.29 | + | 9.64E-29 | 4.44E-26 | | [protein targeting to lysosome involved in chaperone-mediated autophagy](http://amigo.geneontology.org/amigo/term/GO:0061740) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061740&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061740&list=upload_1&organism=Homo%20sapiens) | .14 | 21.88 | + | 1.51E-03 | 2.32E-02 | | [chaperone-mediated autophagy](http://amigo.geneontology.org/amigo/term/GO:0061684) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&list=upload_1&organism=Homo%20sapiens) | .37 | 16.41 | + | 1.52E-05 | 4.52E-04 | | [cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044248) | [1625](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&list=upload_1&organism=Homo%20sapiens) | 74.27 | 1.78 | + | 5.47E-10 | 3.48E-08 | | [catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009056) | [1974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&reflist=1) | [153](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&list=upload_1&organism=Homo%20sapiens) | 90.22 | 1.70 | + | 4.18E-10 | 2.72E-08 | | [metabolic process](http://amigo.geneontology.org/amigo/term/GO:0008152) | [8131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&reflist=1) | [554](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&list=upload_1&organism=Homo%20sapiens) | 371.62 | 1.49 | + | 1.49E-31 | 1.06E-28 | | [cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044237) | [6606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&reflist=1) | [480](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&list=upload_1&organism=Homo%20sapiens) | 301.92 | 1.59 | + | 1.16E-31 | 1.01E-28 | | [protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0030163) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&list=upload_1&organism=Homo%20sapiens) | 34.55 | 2.20 | + | 1.17E-09 | 7.08E-08 | | [protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019538) | [3920](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&reflist=1) | [323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&list=upload_1&organism=Homo%20sapiens) | 179.16 | 1.80 | + | 5.48E-27 | 2.26E-24 | | [macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043170) | [5941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&reflist=1) | [459](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&list=upload_1&organism=Homo%20sapiens) | 271.53 | 1.69 | + | 4.16E-36 | 1.63E-32 | | [organic substance metabolic process](http://amigo.geneontology.org/amigo/term/GO:0071704) | [7697](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&reflist=1) | [538](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&list=upload_1&organism=Homo%20sapiens) | 351.78 | 1.53 | + | 4.49E-33 | 4.70E-30 | | [organonitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901564) | [5013](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&reflist=1) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&list=upload_1&organism=Homo%20sapiens) | 229.11 | 1.65 | + | 1.84E-25 | 6.57E-23 | | [nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006807) | [6710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&reflist=1) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&list=upload_1&organism=Homo%20sapiens) | 306.67 | 1.61 | + | 2.80E-34 | 6.26E-31 | | [primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044238) | [7228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&reflist=1) | [517](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&list=upload_1&organism=Homo%20sapiens) | 330.35 | 1.57 | + | 1.03E-33 | 1.80E-30 | | [organonitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901565) | [1112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&list=upload_1&organism=Homo%20sapiens) | 50.82 | 1.93 | + | 2.95E-09 | 1.66E-07 | | [organic substance catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901575) | [1679](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&list=upload_1&organism=Homo%20sapiens) | 76.74 | 1.81 | + | 5.93E-11 | 4.41E-09 | | [macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009057) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&reflist=1) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&list=upload_1&organism=Homo%20sapiens) | 45.20 | 2.26 | + | 2.87E-13 | 2.98E-11 | | [protein targeting](http://amigo.geneontology.org/amigo/term/GO:0006605) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006605&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006605&list=upload_1&organism=Homo%20sapiens) | 11.11 | 2.07 | + | 2.07E-03 | 3.01E-02 | | [intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0006886) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&list=upload_1&organism=Homo%20sapiens) | 31.17 | 1.96 | + | 2.38E-06 | 8.37E-05 | | [intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0046907) | [1360](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&reflist=1) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&list=upload_1&organism=Homo%20sapiens) | 62.16 | 1.66 | + | 1.56E-06 | 5.65E-05 | | [establishment of localization in cell](http://amigo.geneontology.org/amigo/term/GO:0051649) | [1752](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051649&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051649&list=upload_1&organism=Homo%20sapiens) | 80.07 | 1.65 | + | 4.63E-08 | 2.25E-06 | | [cellular localization](http://amigo.geneontology.org/amigo/term/GO:0051641) | [2655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&reflist=1) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&list=upload_1&organism=Homo%20sapiens) | 121.34 | 1.63 | + | 1.61E-11 | 1.33E-09 | | [localization](http://amigo.geneontology.org/amigo/term/GO:0051179) | [4566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&reflist=1) | [304](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&list=upload_1&organism=Homo%20sapiens) | 208.68 | 1.46 | + | 3.18E-12 | 2.90E-10 | | [establishment of localization](http://amigo.geneontology.org/amigo/term/GO:0051234) | [3997](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&reflist=1) | [257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&list=upload_1&organism=Homo%20sapiens) | 182.68 | 1.41 | + | 1.09E-08 | 5.83E-07 | | [transport](http://amigo.geneontology.org/amigo/term/GO:0006810) | [3840](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&reflist=1) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&list=upload_1&organism=Homo%20sapiens) | 175.50 | 1.41 | + | 1.42E-08 | 7.40E-07 | | [protein localization](http://amigo.geneontology.org/amigo/term/GO:0008104) | [1919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&reflist=1) | [150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&list=upload_1&organism=Homo%20sapiens) | 87.71 | 1.71 | + | 3.65E-10 | 2.41E-08 | | [cellular macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0070727) | [1925](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&reflist=1) | [150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&list=upload_1&organism=Homo%20sapiens) | 87.98 | 1.70 | + | 5.30E-10 | 3.39E-08 | | [macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0033036) | [2345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&reflist=1) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&list=upload_1&organism=Homo%20sapiens) | 107.18 | 1.60 | + | 1.43E-09 | 8.46E-08 | | [protein transport](http://amigo.geneontology.org/amigo/term/GO:0015031) | [1179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&reflist=1) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&list=upload_1&organism=Homo%20sapiens) | 53.89 | 1.71 | + | 1.79E-06 | 6.43E-05 | | [establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0045184) | [1267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&reflist=1) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&list=upload_1&organism=Homo%20sapiens) | 57.91 | 1.68 | + | 1.98E-06 | 7.07E-05 | | [nitrogen compound transport](http://amigo.geneontology.org/amigo/term/GO:0071705) | [1589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&reflist=1) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&list=upload_1&organism=Homo%20sapiens) | 72.62 | 1.61 | + | 9.37E-07 | 3.58E-05 | | [organic substance transport](http://amigo.geneontology.org/amigo/term/GO:0071702) | [1964](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&reflist=1) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&list=upload_1&organism=Homo%20sapiens) | 89.76 | 1.45 | + | 3.77E-05 | 1.02E-03 | | [establishment of protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0072594) | [334](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072594&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072594&list=upload_1&organism=Homo%20sapiens) | 15.27 | 2.49 | + | 1.22E-06 | 4.53E-05 | | [protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0033365) | [694](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&list=upload_1&organism=Homo%20sapiens) | 31.72 | 2.24 | + | 2.25E-09 | 1.30E-07 | | [protein localization to lysosome](http://amigo.geneontology.org/amigo/term/GO:0061462) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061462&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061462&list=upload_1&organism=Homo%20sapiens) | 2.29 | 3.94 | + | 9.86E-04 | 1.61E-02 | | [protein targeting to vacuole involved in autophagy](http://amigo.geneontology.org/amigo/term/GO:0071211) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071211&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071211&list=upload_1&organism=Homo%20sapiens) | .18 | 16.41 | + | 2.55E-03 | 3.60E-02 | | [positive regulation of superoxide dismutase activity](http://amigo.geneontology.org/amigo/term/GO:1901671) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901671&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901671&list=upload_1&organism=Homo%20sapiens) | .18 | 16.41 | + | 2.55E-03 | 3.60E-02 | | [positive regulation of oxidoreductase activity](http://amigo.geneontology.org/amigo/term/GO:0051353) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051353&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051353&list=upload_1&organism=Homo%20sapiens) | 2.74 | 4.74 | + | 1.48E-05 | 4.40E-04 | | [regulation of oxidoreductase activity](http://amigo.geneontology.org/amigo/term/GO:0051341) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&list=upload_1&organism=Homo%20sapiens) | 4.62 | 4.12 | + | 1.11E-06 | 4.15E-05 | | [regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0050790) | [2373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&reflist=1) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&list=upload_1&organism=Homo%20sapiens) | 108.46 | 1.74 | + | 2.27E-13 | 2.44E-11 | | [regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0065009) | [3094](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&reflist=1) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&list=upload_1&organism=Homo%20sapiens) | 141.41 | 1.78 | + | 2.74E-19 | 5.58E-17 | | [positive regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0043085) | [1194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&reflist=1) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&list=upload_1&organism=Homo%20sapiens) | 54.57 | 1.78 | + | 1.58E-07 | 7.06E-06 | | [positive regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044093) | [1590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&reflist=1) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&list=upload_1&organism=Homo%20sapiens) | 72.67 | 1.89 | + | 5.40E-12 | 4.76E-10 | | [telomerase holoenzyme complex assembly](http://amigo.geneontology.org/amigo/term/GO:1905323) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905323&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905323&list=upload_1&organism=Homo%20sapiens) | .18 | 16.41 | + | 2.55E-03 | 3.60E-02 | | [ribonucleoprotein complex assembly](http://amigo.geneontology.org/amigo/term/GO:0022618) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022618&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022618&list=upload_1&organism=Homo%20sapiens) | 9.19 | 3.05 | + | 9.18E-07 | 3.53E-05 | | [ribonucleoprotein complex biogenesis](http://amigo.geneontology.org/amigo/term/GO:0022613) | [449](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022613&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022613&list=upload_1&organism=Homo%20sapiens) | 20.52 | 2.05 | + | 4.32E-05 | 1.15E-03 | | [cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044085) | [2633](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&list=upload_1&organism=Homo%20sapiens) | 120.34 | 1.65 | + | 3.52E-12 | 3.19E-10 | | [ribonucleoprotein complex subunit organization](http://amigo.geneontology.org/amigo/term/GO:0071826) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071826&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071826&list=upload_1&organism=Homo%20sapiens) | 9.55 | 3.04 | + | 6.34E-07 | 2.52E-05 | | [protein-containing complex organization](http://amigo.geneontology.org/amigo/term/GO:0043933) | [1423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&reflist=1) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&list=upload_1&organism=Homo%20sapiens) | 65.04 | 2.00 | + | 4.20E-13 | 4.22E-11 | | [protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0065003) | [1270](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&reflist=1) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&list=upload_1&organism=Homo%20sapiens) | 58.04 | 1.96 | + | 5.79E-11 | 4.33E-09 | | [cellular component assembly](http://amigo.geneontology.org/amigo/term/GO:0022607) | [2394](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&reflist=1) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&list=upload_1&organism=Homo%20sapiens) | 109.42 | 1.69 | + | 5.68E-12 | 4.98E-10 | | [response to indole-3-methanol](http://amigo.geneontology.org/amigo/term/GO:0071680) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071680&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071680&list=upload_1&organism=Homo%20sapiens) | .27 | 14.59 | + | 6.16E-04 | 1.13E-02 | | [response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097305) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&list=upload_1&organism=Homo%20sapiens) | 11.61 | 2.50 | + | 2.28E-05 | 6.57E-04 | | [response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0010033) | [2704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&reflist=1) | [267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&list=upload_1&organism=Homo%20sapiens) | 123.58 | 2.16 | + | 4.78E-33 | 4.68E-30 | | [response to chemical](http://amigo.geneontology.org/amigo/term/GO:0042221) | [4060](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&reflist=1) | [328](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&list=upload_1&organism=Homo%20sapiens) | 185.56 | 1.77 | + | 4.18E-26 | 1.56E-23 | | [response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0050896) | [8209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&reflist=1) | [550](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&list=upload_1&organism=Homo%20sapiens) | 375.18 | 1.47 | + | 3.62E-29 | 1.78E-26 | | [response to oxygen-containing compound](http://amigo.geneontology.org/amigo/term/GO:1901700) | [1551](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&reflist=1) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&list=upload_1&organism=Homo%20sapiens) | 70.89 | 2.38 | + | 4.05E-24 | 1.32E-21 | | [response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0010243) | [968](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&reflist=1) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&list=upload_1&organism=Homo%20sapiens) | 44.24 | 2.44 | + | 4.77E-16 | 6.74E-14 | | [response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901698) | [1062](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&reflist=1) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&list=upload_1&organism=Homo%20sapiens) | 48.54 | 2.43 | + | 1.83E-17 | 3.06E-15 | | [response to organic cyclic compound](http://amigo.geneontology.org/amigo/term/GO:0014070) | [879](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&list=upload_1&organism=Homo%20sapiens) | 40.17 | 2.64 | + | 6.53E-18 | 1.12E-15 | | [negative regulation of glucocorticoid receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2000323) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000323&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000323&list=upload_1&organism=Homo%20sapiens) | .27 | 14.59 | + | 6.16E-04 | 1.13E-02 | | [negative regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009968) | [1257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&list=upload_1&organism=Homo%20sapiens) | 57.45 | 1.95 | + | 1.18E-10 | 8.28E-09 | | [regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009966) | [2989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&reflist=1) | [262](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&list=upload_1&organism=Homo%20sapiens) | 136.61 | 1.92 | + | 1.00E-24 | 3.34E-22 | | [regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048583) | [4034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&reflist=1) | [334](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&list=upload_1&organism=Homo%20sapiens) | 184.37 | 1.81 | + | 1.80E-28 | 8.06E-26 | | [regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010646) | [3369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&reflist=1) | [286](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&list=upload_1&organism=Homo%20sapiens) | 153.98 | 1.86 | + | 3.46E-25 | 1.18E-22 | | [regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023051) | [3381](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&reflist=1) | [287](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&list=upload_1&organism=Homo%20sapiens) | 154.53 | 1.86 | + | 2.52E-25 | 8.78E-23 | | [negative regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010648) | [1357](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&reflist=1) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&list=upload_1&organism=Homo%20sapiens) | 62.02 | 1.93 | + | 3.63E-11 | 2.82E-09 | | [negative regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0048523) | [4732](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&reflist=1) | [382](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&list=upload_1&organism=Homo%20sapiens) | 216.27 | 1.77 | + | 1.40E-31 | 1.05E-28 | | [negative regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0048519) | [5314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&reflist=1) | [421](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&list=upload_1&organism=Homo%20sapiens) | 242.87 | 1.73 | + | 2.66E-34 | 6.96E-31 | | [negative regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023057) | [1363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&reflist=1) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&list=upload_1&organism=Homo%20sapiens) | 62.29 | 1.93 | + | 4.08E-11 | 3.15E-09 | | [negative regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048585) | [1620](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&reflist=1) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&list=upload_1&organism=Homo%20sapiens) | 74.04 | 2.01 | + | 4.71E-15 | 6.15E-13 | | [regulation of intracellular steroid hormone receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0033143) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033143&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033143&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.60 | + | 3.15E-04 | 6.36E-03 | | [regulation of glucocorticoid receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2000322) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000322&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000322&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [cellular response to progesterone stimulus](http://amigo.geneontology.org/amigo/term/GO:0071393) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071393&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071393&list=upload_1&organism=Homo%20sapiens) | .27 | 14.59 | + | 6.16E-04 | 1.12E-02 | | [cellular response to steroid hormone stimulus](http://amigo.geneontology.org/amigo/term/GO:0071383) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071383&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071383&list=upload_1&organism=Homo%20sapiens) | 6.95 | 4.61 | + | 2.10E-11 | 1.68E-09 | | [cellular response to organic cyclic compound](http://amigo.geneontology.org/amigo/term/GO:0071407) | [514](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&list=upload_1&organism=Homo%20sapiens) | 23.49 | 3.06 | + | 1.99E-15 | 2.69E-13 | | [cellular response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0071310) | [2026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&reflist=1) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&list=upload_1&organism=Homo%20sapiens) | 92.60 | 2.35 | + | 5.19E-31 | 3.54E-28 | | [cellular response to chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0070887) | [2616](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&reflist=1) | [258](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&list=upload_1&organism=Homo%20sapiens) | 119.56 | 2.16 | + | 1.30E-31 | 1.02E-28 | | [cellular response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0051716) | [6569](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&reflist=1) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&list=upload_1&organism=Homo%20sapiens) | 300.23 | 1.57 | + | 5.25E-29 | 2.49E-26 | | [cellular response to hormone stimulus](http://amigo.geneontology.org/amigo/term/GO:0032870) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032870&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032870&list=upload_1&organism=Homo%20sapiens) | 22.35 | 3.00 | + | 5.03E-14 | 6.07E-12 | | [cellular response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0071495) | [1107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&reflist=1) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&list=upload_1&organism=Homo%20sapiens) | 50.59 | 2.55 | + | 1.85E-20 | 4.59E-18 | | [response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0009719) | [1371](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&reflist=1) | [146](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&list=upload_1&organism=Homo%20sapiens) | 62.66 | 2.33 | + | 5.50E-20 | 1.29E-17 | | [response to hormone](http://amigo.geneontology.org/amigo/term/GO:0009725) | [767](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&list=upload_1&organism=Homo%20sapiens) | 35.05 | 2.42 | + | 1.07E-12 | 1.03E-10 | | [cellular response to lipid](http://amigo.geneontology.org/amigo/term/GO:0071396) | [519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&list=upload_1&organism=Homo%20sapiens) | 23.72 | 2.61 | + | 8.78E-11 | 6.35E-09 | | [response to lipid](http://amigo.geneontology.org/amigo/term/GO:0033993) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&reflist=1) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&list=upload_1&organism=Homo%20sapiens) | 38.53 | 2.39 | + | 2.68E-13 | 2.86E-11 | | [response to steroid hormone](http://amigo.geneontology.org/amigo/term/GO:0048545) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&list=upload_1&organism=Homo%20sapiens) | 12.98 | 3.08 | + | 3.39E-09 | 1.89E-07 | | [cellular response to ketone](http://amigo.geneontology.org/amigo/term/GO:1901655) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901655&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901655&list=upload_1&organism=Homo%20sapiens) | 4.84 | 3.92 | + | 2.08E-06 | 7.41E-05 | | [response to ketone](http://amigo.geneontology.org/amigo/term/GO:1901654) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901654&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901654&list=upload_1&organism=Homo%20sapiens) | 9.42 | 3.19 | + | 1.61E-07 | 7.19E-06 | | [cellular response to oxygen-containing compound](http://amigo.geneontology.org/amigo/term/GO:1901701) | [1059](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&list=upload_1&organism=Homo%20sapiens) | 48.40 | 2.62 | + | 2.72E-21 | 7.35E-19 | | [response to progesterone](http://amigo.geneontology.org/amigo/term/GO:0032570) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032570&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032570&list=upload_1&organism=Homo%20sapiens) | 1.78 | 5.05 | + | 2.02E-04 | 4.35E-03 | | [telomeric D-loop disassembly](http://amigo.geneontology.org/amigo/term/GO:0061820) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061820&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061820&list=upload_1&organism=Homo%20sapiens) | .37 | 13.67 | + | 1.51E-04 | 3.43E-03 | | [telomeric loop disassembly](http://amigo.geneontology.org/amigo/term/GO:0090657) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090657&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090657&list=upload_1&organism=Homo%20sapiens) | .46 | 13.13 | + | 3.77E-05 | 1.02E-03 | | [telomere maintenance](http://amigo.geneontology.org/amigo/term/GO:0000723) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000723&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000723&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.96 | + | 6.39E-06 | 2.09E-04 | | [telomere organization](http://amigo.geneontology.org/amigo/term/GO:0032200) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032200&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032200&list=upload_1&organism=Homo%20sapiens) | 4.71 | 3.82 | + | 5.25E-06 | 1.75E-04 | | [chromosome organization](http://amigo.geneontology.org/amigo/term/GO:0051276) | [444](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&list=upload_1&organism=Homo%20sapiens) | 20.29 | 2.46 | + | 3.76E-08 | 1.87E-06 | | [DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006259) | [794](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&list=upload_1&organism=Homo%20sapiens) | 36.29 | 2.26 | + | 9.68E-11 | 6.90E-09 | | [cellular macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044260) | [2518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&reflist=1) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&list=upload_1&organism=Homo%20sapiens) | 115.08 | 1.87 | + | 1.61E-18 | 3.04E-16 | | [nucleic acid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0090304) | [2276](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090304&reflist=1) | [195](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090304&list=upload_1&organism=Homo%20sapiens) | 104.02 | 1.87 | + | 8.73E-17 | 1.32E-14 | | [nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006139) | [2825](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006139&reflist=1) | [227](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006139&list=upload_1&organism=Homo%20sapiens) | 129.11 | 1.76 | + | 9.60E-17 | 1.43E-14 | | [organic cyclic compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901360) | [3292](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901360&reflist=1) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901360&list=upload_1&organism=Homo%20sapiens) | 150.46 | 1.67 | + | 3.13E-16 | 4.50E-14 | | [heterocycle metabolic process](http://amigo.geneontology.org/amigo/term/GO:0046483) | [2999](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&reflist=1) | [241](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&list=upload_1&organism=Homo%20sapiens) | 137.07 | 1.76 | + | 6.43E-18 | 1.13E-15 | | [cellular aromatic compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006725) | [3050](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006725&reflist=1) | [240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006725&list=upload_1&organism=Homo%20sapiens) | 139.40 | 1.72 | + | 8.33E-17 | 1.27E-14 | | [cellular nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0034641) | [3573](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034641&reflist=1) | [281](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034641&list=upload_1&organism=Homo%20sapiens) | 163.30 | 1.72 | + | 5.91E-20 | 1.36E-17 | | [negative regulation of establishment of protein localization to mitochondrion](http://amigo.geneontology.org/amigo/term/GO:1903748) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903748&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903748&list=upload_1&organism=Homo%20sapiens) | .37 | 13.67 | + | 1.51E-04 | 3.42E-03 | | [negative regulation of establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:1904950) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904950&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904950&list=upload_1&organism=Homo%20sapiens) | 5.58 | 2.69 | + | 9.76E-04 | 1.60E-02 | | [regulation of establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0070201) | [527](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&list=upload_1&organism=Homo%20sapiens) | 24.09 | 2.74 | + | 3.11E-12 | 2.85E-10 | | [regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:0032880) | [850](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&reflist=1) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&list=upload_1&organism=Homo%20sapiens) | 38.85 | 2.34 | + | 1.16E-12 | 1.10E-10 | | [regulation of cellular localization](http://amigo.geneontology.org/amigo/term/GO:0060341) | [962](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&reflist=1) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&list=upload_1&organism=Homo%20sapiens) | 43.97 | 2.32 | + | 6.82E-14 | 8.05E-12 | | [regulation of localization](http://amigo.geneontology.org/amigo/term/GO:0032879) | [2104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&reflist=1) | [177](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&list=upload_1&organism=Homo%20sapiens) | 96.16 | 1.84 | + | 1.65E-14 | 2.03E-12 | | [negative regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:1903828) | [196](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903828&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903828&list=upload_1&organism=Homo%20sapiens) | 8.96 | 2.34 | + | 6.31E-04 | 1.15E-02 | | [regulation of establishment of protein localization to mitochondrion](http://amigo.geneontology.org/amigo/term/GO:1903747) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903747&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903747&list=upload_1&organism=Homo%20sapiens) | 2.33 | 4.29 | + | 2.88E-04 | 5.87E-03 | | [trachea formation](http://amigo.geneontology.org/amigo/term/GO:0060440) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060440&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060440&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [animal organ morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009887) | [1003](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&list=upload_1&organism=Homo%20sapiens) | 45.84 | 1.59 | + | 2.20E-04 | 4.67E-03 | | [anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009653) | [2237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&list=upload_1&organism=Homo%20sapiens) | 102.24 | 1.64 | + | 4.58E-10 | 2.95E-08 | | [anatomical structure development](http://amigo.geneontology.org/amigo/term/GO:0048856) | [5144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&reflist=1) | [349](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&list=upload_1&organism=Homo%20sapiens) | 235.10 | 1.48 | + | 1.19E-15 | 1.64E-13 | | [developmental process](http://amigo.geneontology.org/amigo/term/GO:0032502) | [5677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&reflist=1) | [386](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&list=upload_1&organism=Homo%20sapiens) | 259.46 | 1.49 | + | 4.78E-18 | 8.62E-16 | | [animal organ development](http://amigo.geneontology.org/amigo/term/GO:0048513) | [3254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&reflist=1) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&list=upload_1&organism=Homo%20sapiens) | 148.72 | 1.53 | + | 7.46E-11 | 5.47E-09 | | [anatomical structure formation involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048646) | [941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048646&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048646&list=upload_1&organism=Homo%20sapiens) | 43.01 | 1.65 | + | 7.65E-05 | 1.91E-03 | | [trachea morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060439) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060439&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060439&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.48E-02 | | [respiratory system development](http://amigo.geneontology.org/amigo/term/GO:0060541) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060541&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060541&list=upload_1&organism=Homo%20sapiens) | 9.42 | 2.12 | + | 2.71E-03 | 3.79E-02 | | [system development](http://amigo.geneontology.org/amigo/term/GO:0048731) | [3838](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&reflist=1) | [273](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&list=upload_1&organism=Homo%20sapiens) | 175.41 | 1.56 | + | 5.67E-14 | 6.79E-12 | | [multicellular organism development](http://amigo.geneontology.org/amigo/term/GO:0007275) | [4228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&reflist=1) | [302](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&list=upload_1&organism=Homo%20sapiens) | 193.24 | 1.56 | + | 6.62E-16 | 9.27E-14 | | [multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0032501) | [6581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&reflist=1) | [419](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&list=upload_1&organism=Homo%20sapiens) | 300.78 | 1.39 | + | 4.65E-15 | 6.12E-13 | | [cellular response to nicotine](http://amigo.geneontology.org/amigo/term/GO:0071316) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071316&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071316&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [response to nicotine](http://amigo.geneontology.org/amigo/term/GO:0035094) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035094&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035094&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 8.68E-04 | 1.47E-02 | | [inclusion body assembly](http://amigo.geneontology.org/amigo/term/GO:0070841) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070841&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070841&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [negative regulation of nuclease activity](http://amigo.geneontology.org/amigo/term/GO:0032074) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032074&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032074&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [negative regulation of nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045934) | [1562](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045934&reflist=1) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045934&list=upload_1&organism=Homo%20sapiens) | 71.39 | 1.93 | + | 9.01E-13 | 8.72E-11 | | [negative regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051172) | [2409](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&reflist=1) | [212](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&list=upload_1&organism=Homo%20sapiens) | 110.10 | 1.93 | + | 9.08E-20 | 2.01E-17 | | [regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051171) | [5709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&reflist=1) | [434](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&list=upload_1&organism=Homo%20sapiens) | 260.92 | 1.66 | + | 1.19E-31 | 9.86E-29 | | [regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019222) | [6754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&reflist=1) | [480](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&list=upload_1&organism=Homo%20sapiens) | 308.68 | 1.55 | + | 2.63E-29 | 1.37E-26 | | [negative regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009892) | [2988](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&reflist=1) | [258](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&list=upload_1&organism=Homo%20sapiens) | 136.56 | 1.89 | + | 1.96E-23 | 6.26E-21 | | [regulation of nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019219) | [4067](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&reflist=1) | [308](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&list=upload_1&organism=Homo%20sapiens) | 185.88 | 1.66 | + | 7.35E-20 | 1.65E-17 | | [regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031323) | [5647](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&reflist=1) | [426](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&list=upload_1&organism=Homo%20sapiens) | 258.09 | 1.65 | + | 5.98E-30 | 3.47E-27 | | [regulation of primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0080090) | [5872](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&reflist=1) | [439](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&list=upload_1&organism=Homo%20sapiens) | 268.37 | 1.64 | + | 2.07E-30 | 1.25E-27 | | [negative regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031324) | [2264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&list=upload_1&organism=Homo%20sapiens) | 103.47 | 1.92 | + | 2.87E-18 | 5.30E-16 | | [regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0060255) | [6214](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&reflist=1) | [454](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&list=upload_1&organism=Homo%20sapiens) | 284.00 | 1.60 | + | 1.19E-29 | 6.43E-27 | | [regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051336) | [1020](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&list=upload_1&organism=Homo%20sapiens) | 46.62 | 1.61 | + | 1.34E-04 | 3.07E-03 | | [negative regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051346) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051346&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051346&list=upload_1&organism=Homo%20sapiens) | 16.59 | 1.81 | + | 3.74E-03 | 4.86E-02 | | [negative regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0043086) | [781](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&list=upload_1&organism=Homo%20sapiens) | 35.69 | 1.85 | + | 6.48E-06 | 2.11E-04 | | [negative regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044092) | [1150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&reflist=1) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&list=upload_1&organism=Homo%20sapiens) | 52.56 | 1.98 | + | 2.25E-10 | 1.55E-08 | | [macrophage derived foam cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0010742) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010742&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010742&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 9.35E-04 | 1.55E-02 | | [foam cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0090077) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090077&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090077&list=upload_1&organism=Homo%20sapiens) | .37 | 10.94 | + | 1.35E-03 | 2.13E-02 | | [cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030154) | [3519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&reflist=1) | [240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&list=upload_1&organism=Homo%20sapiens) | 160.83 | 1.49 | + | 2.74E-10 | 1.86E-08 | | [cellular developmental process](http://amigo.geneontology.org/amigo/term/GO:0048869) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&reflist=1) | [244](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&list=upload_1&organism=Homo%20sapiens) | 161.88 | 1.51 | + | 5.51E-11 | 4.13E-09 | | [formation of cytoplasmic translation initiation complex](http://amigo.geneontology.org/amigo/term/GO:0001732) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001732&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001732&list=upload_1&organism=Homo%20sapiens) | .73 | 12.31 | + | 6.08E-07 | 2.43E-05 | | [cytoplasmic translational initiation](http://amigo.geneontology.org/amigo/term/GO:0002183) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002183&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002183&list=upload_1&organism=Homo%20sapiens) | 1.55 | 7.72 | + | 4.46E-07 | 1.82E-05 | | [cytoplasmic translation](http://amigo.geneontology.org/amigo/term/GO:0002181) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002181&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002181&list=upload_1&organism=Homo%20sapiens) | 5.67 | 3.88 | + | 3.89E-07 | 1.63E-05 | | [translation](http://amigo.geneontology.org/amigo/term/GO:0006412) | [379](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006412&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006412&list=upload_1&organism=Homo%20sapiens) | 17.32 | 2.54 | + | 1.06E-07 | 4.83E-06 | | [peptide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0043043) | [408](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043043&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043043&list=upload_1&organism=Homo%20sapiens) | 18.65 | 2.47 | + | 1.40E-07 | 6.33E-06 | | [peptide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006518) | [537](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006518&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006518&list=upload_1&organism=Homo%20sapiens) | 24.54 | 2.28 | + | 6.32E-08 | 2.98E-06 | | [cellular amide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043603) | [802](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043603&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043603&list=upload_1&organism=Homo%20sapiens) | 36.65 | 1.69 | + | 1.21E-04 | 2.83E-03 | | [amide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0043604) | [527](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043604&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043604&list=upload_1&organism=Homo%20sapiens) | 24.09 | 2.08 | + | 4.13E-06 | 1.41E-04 | | [cellular nitrogen compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0044271) | [1588](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044271&reflist=1) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044271&list=upload_1&organism=Homo%20sapiens) | 72.58 | 2.09 | + | 7.16E-17 | 1.11E-14 | | [cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0044249) | [2464](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&reflist=1) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&list=upload_1&organism=Homo%20sapiens) | 112.61 | 1.70 | + | 1.67E-12 | 1.59E-10 | | [biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009058) | [2603](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&reflist=1) | [202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&list=upload_1&organism=Homo%20sapiens) | 118.97 | 1.70 | + | 2.12E-13 | 2.30E-11 | | [organonitrogen compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1901566) | [1333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901566&reflist=1) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901566&list=upload_1&organism=Homo%20sapiens) | 60.92 | 1.54 | + | 7.05E-05 | 1.78E-03 | | [organic substance biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1901576) | [2534](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901576&reflist=1) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901576&list=upload_1&organism=Homo%20sapiens) | 115.81 | 1.68 | + | 3.07E-12 | 2.83E-10 | | [gene expression](http://amigo.geneontology.org/amigo/term/GO:0010467) | [2314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&reflist=1) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&list=upload_1&organism=Homo%20sapiens) | 105.76 | 1.82 | + | 3.04E-15 | 4.07E-13 | | [cellular macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0034645) | [773](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034645&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034645&list=upload_1&organism=Homo%20sapiens) | 35.33 | 1.67 | + | 2.57E-04 | 5.35E-03 | | [macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009059) | [1487](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&list=upload_1&organism=Homo%20sapiens) | 67.96 | 1.94 | + | 1.90E-12 | 1.80E-10 | | [translational initiation](http://amigo.geneontology.org/amigo/term/GO:0006413) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006413&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006413&list=upload_1&organism=Homo%20sapiens) | 3.20 | 5.63 | + | 3.87E-08 | 1.91E-06 | | [positive regulation by host of viral genome replication](http://amigo.geneontology.org/amigo/term/GO:0044829) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044829&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044829&list=upload_1&organism=Homo%20sapiens) | .46 | 10.94 | + | 3.28E-04 | 6.58E-03 | | [modulation by host of viral genome replication](http://amigo.geneontology.org/amigo/term/GO:0044827) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044827&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044827&list=upload_1&organism=Homo%20sapiens) | 1.01 | 5.97 | + | 1.13E-03 | 1.82E-02 | | [modulation by host of symbiont process](http://amigo.geneontology.org/amigo/term/GO:0051851) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051851&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051851&list=upload_1&organism=Homo%20sapiens) | 3.79 | 3.69 | + | 8.04E-05 | 2.00E-03 | | [biological process involved in interaction with symbiont](http://amigo.geneontology.org/amigo/term/GO:0051702) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051702&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051702&list=upload_1&organism=Homo%20sapiens) | 5.16 | 3.49 | + | 1.62E-05 | 4.77E-04 | | [biological process involved in symbiotic interaction](http://amigo.geneontology.org/amigo/term/GO:0044403) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&list=upload_1&organism=Homo%20sapiens) | 11.93 | 2.93 | + | 9.55E-08 | 4.40E-06 | | [biological process involved in interspecies interaction between organisms](http://amigo.geneontology.org/amigo/term/GO:0044419) | [1602](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&reflist=1) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&list=upload_1&organism=Homo%20sapiens) | 73.22 | 2.13 | + | 6.20E-18 | 1.11E-15 | | [peptidyl-tyrosine autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0038083) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038083&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038083&list=upload_1&organism=Homo%20sapiens) | .82 | 10.94 | + | 1.29E-06 | 4.78E-05 | | [peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018108) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&list=upload_1&organism=Homo%20sapiens) | 7.68 | 3.26 | + | 1.20E-06 | 4.49E-05 | | [protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0006468) | [719](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&list=upload_1&organism=Homo%20sapiens) | 32.86 | 2.65 | + | 5.48E-15 | 7.10E-13 | | [protein modification process](http://amigo.geneontology.org/amigo/term/GO:0036211) | [2658](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&reflist=1) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&list=upload_1&organism=Homo%20sapiens) | 121.48 | 1.89 | + | 1.08E-20 | 2.77E-18 | | [macromolecule modification](http://amigo.geneontology.org/amigo/term/GO:0043412) | [2883](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&reflist=1) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&list=upload_1&organism=Homo%20sapiens) | 131.76 | 1.84 | + | 3.31E-20 | 7.98E-18 | | [phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0016310) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&list=upload_1&organism=Homo%20sapiens) | 41.96 | 2.34 | + | 1.29E-13 | 1.46E-11 | | [phosphate-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006796) | [1855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&reflist=1) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&list=upload_1&organism=Homo%20sapiens) | 84.78 | 1.88 | + | 1.16E-13 | 1.33E-11 | | [phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006793) | [1881](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&reflist=1) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&list=upload_1&organism=Homo%20sapiens) | 85.97 | 1.85 | + | 2.78E-13 | 2.90E-11 | | [peptidyl-tyrosine modification](http://amigo.geneontology.org/amigo/term/GO:0018212) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&list=upload_1&organism=Homo%20sapiens) | 7.77 | 3.22 | + | 1.46E-06 | 5.32E-05 | | [peptidyl-amino acid modification](http://amigo.geneontology.org/amigo/term/GO:0018193) | [882](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&list=upload_1&organism=Homo%20sapiens) | 40.31 | 2.23 | + | 1.71E-11 | 1.40E-09 | | [protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0046777) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&list=upload_1&organism=Homo%20sapiens) | 8.64 | 3.01 | + | 2.74E-06 | 9.58E-05 | | [peptidyl-lysine deacetylation](http://amigo.geneontology.org/amigo/term/GO:0034983) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034983&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034983&list=upload_1&organism=Homo%20sapiens) | .37 | 10.94 | + | 1.35E-03 | 2.13E-02 | | [protein deacetylation](http://amigo.geneontology.org/amigo/term/GO:0006476) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006476&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006476&list=upload_1&organism=Homo%20sapiens) | 2.93 | 3.76 | + | 3.97E-04 | 7.73E-03 | | [protein deacylation](http://amigo.geneontology.org/amigo/term/GO:0035601) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035601&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035601&list=upload_1&organism=Homo%20sapiens) | 3.43 | 3.50 | + | 3.92E-04 | 7.65E-03 | | [macromolecule deacylation](http://amigo.geneontology.org/amigo/term/GO:0098732) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098732&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098732&list=upload_1&organism=Homo%20sapiens) | 3.61 | 3.32 | + | 5.95E-04 | 1.09E-02 | | [cellular response to granulocyte macrophage colony-stimulating factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0097011) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097011&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097011&list=upload_1&organism=Homo%20sapiens) | .50 | 9.95 | + | 4.60E-04 | 8.76E-03 | | [cellular response to cytokine stimulus](http://amigo.geneontology.org/amigo/term/GO:0071345) | [714](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&list=upload_1&organism=Homo%20sapiens) | 32.63 | 2.76 | + | 3.10E-16 | 4.50E-14 | | [response to cytokine](http://amigo.geneontology.org/amigo/term/GO:0034097) | [808](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&reflist=1) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&list=upload_1&organism=Homo%20sapiens) | 36.93 | 2.68 | + | 2.93E-17 | 4.78E-15 | | [response to granulocyte macrophage colony-stimulating factor](http://amigo.geneontology.org/amigo/term/GO:0097012) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097012&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097012&list=upload_1&organism=Homo%20sapiens) | .50 | 9.95 | + | 4.60E-04 | 8.77E-03 | | [peripheral nervous system myelin maintenance](http://amigo.geneontology.org/amigo/term/GO:0032287) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032287&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032287&list=upload_1&organism=Homo%20sapiens) | .41 | 9.72 | + | 1.89E-03 | 2.81E-02 | | [myelination in peripheral nervous system](http://amigo.geneontology.org/amigo/term/GO:0022011) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022011&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022011&list=upload_1&organism=Homo%20sapiens) | 1.42 | 4.94 | + | 1.15E-03 | 1.84E-02 | | [nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007399) | [2191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&reflist=1) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&list=upload_1&organism=Homo%20sapiens) | 100.14 | 1.61 | + | 6.23E-09 | 3.41E-07 | | [Schwann cell development](http://amigo.geneontology.org/amigo/term/GO:0014044) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014044&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014044&list=upload_1&organism=Homo%20sapiens) | 1.55 | 5.15 | + | 4.06E-04 | 7.89E-03 | | [glial cell development](http://amigo.geneontology.org/amigo/term/GO:0021782) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021782&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021782&list=upload_1&organism=Homo%20sapiens) | 5.16 | 3.68 | + | 4.77E-06 | 1.60E-04 | | [cell development](http://amigo.geneontology.org/amigo/term/GO:0048468) | [1725](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&list=upload_1&organism=Homo%20sapiens) | 78.84 | 1.61 | + | 2.75E-07 | 1.18E-05 | | [glial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0010001) | [187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010001&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010001&list=upload_1&organism=Homo%20sapiens) | 8.55 | 2.93 | + | 6.65E-06 | 2.15E-04 | | [gliogenesis](http://amigo.geneontology.org/amigo/term/GO:0042063) | [246](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042063&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042063&list=upload_1&organism=Homo%20sapiens) | 11.24 | 2.40 | + | 7.45E-05 | 1.87E-03 | | [neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0022008) | [1290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&list=upload_1&organism=Homo%20sapiens) | 58.96 | 1.48 | + | 4.93E-04 | 9.23E-03 | | [Schwann cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0014037) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014037&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014037&list=upload_1&organism=Homo%20sapiens) | 1.78 | 5.05 | + | 2.02E-04 | 4.36E-03 | | [peripheral nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007422) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007422&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007422&list=upload_1&organism=Homo%20sapiens) | 3.79 | 3.43 | + | 2.74E-04 | 5.66E-03 | | [peripheral nervous system axon ensheathment](http://amigo.geneontology.org/amigo/term/GO:0032292) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032292&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032292&list=upload_1&organism=Homo%20sapiens) | 1.42 | 4.94 | + | 1.15E-03 | 1.84E-02 | | [myelin maintenance](http://amigo.geneontology.org/amigo/term/GO:0043217) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043217&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043217&list=upload_1&organism=Homo%20sapiens) | .78 | 6.44 | + | 2.23E-03 | 3.21E-02 | | [progesterone receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0050847) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050847&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050847&list=upload_1&organism=Homo%20sapiens) | .41 | 9.72 | + | 1.89E-03 | 2.80E-02 | | [intracellular steroid hormone receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030518) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030518&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030518&list=upload_1&organism=Homo%20sapiens) | 2.56 | 4.69 | + | 3.44E-05 | 9.45E-04 | | [intracellular receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030522) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030522&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030522&list=upload_1&organism=Homo%20sapiens) | 6.76 | 3.99 | + | 1.14E-08 | 6.06E-07 | | [signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007165) | [4887](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&reflist=1) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&list=upload_1&organism=Homo%20sapiens) | 223.36 | 1.46 | + | 3.40E-13 | 3.48E-11 | | [signaling](http://amigo.geneontology.org/amigo/term/GO:0023052) | [5231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&reflist=1) | [354](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&list=upload_1&organism=Homo%20sapiens) | 239.08 | 1.48 | + | 9.08E-16 | 1.26E-13 | | [cell communication](http://amigo.geneontology.org/amigo/term/GO:0007154) | [5342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&reflist=1) | [362](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&list=upload_1&organism=Homo%20sapiens) | 244.15 | 1.48 | + | 2.22E-16 | 3.25E-14 | | [steroid hormone mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0043401) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043401&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043401&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.98 | + | 3.91E-05 | 1.05E-03 | | [hormone-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0009755) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009755&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009755&list=upload_1&organism=Homo%20sapiens) | 5.99 | 2.84 | + | 2.63E-04 | 5.45E-03 | | [positive regulation of memory T cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0043382) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043382&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043382&list=upload_1&organism=Homo%20sapiens) | .41 | 9.72 | + | 1.89E-03 | 2.80E-02 | | [positive regulation of T cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045582) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045582&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045582&list=upload_1&organism=Homo%20sapiens) | 5.35 | 2.81 | + | 6.63E-04 | 1.18E-02 | | [positive regulation of lymphocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0045621) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045621&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045621&list=upload_1&organism=Homo%20sapiens) | 5.99 | 3.01 | + | 9.18E-05 | 2.24E-03 | | [regulation of lymphocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0045619) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045619&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045619&list=upload_1&organism=Homo%20sapiens) | 9.60 | 2.92 | + | 1.99E-06 | 7.09E-05 | | [regulation of leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:1902105) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&list=upload_1&organism=Homo%20sapiens) | 14.44 | 2.63 | + | 4.57E-07 | 1.86E-05 | | [regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045595) | [1581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&reflist=1) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&list=upload_1&organism=Homo%20sapiens) | 72.26 | 1.94 | + | 4.84E-13 | 4.83E-11 | | [regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0050793) | [2489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&reflist=1) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&list=upload_1&organism=Homo%20sapiens) | 113.76 | 1.76 | + | 1.42E-14 | 1.77E-12 | | [regulation of hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:1903706) | [398](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903706&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903706&list=upload_1&organism=Homo%20sapiens) | 18.19 | 2.75 | + | 1.29E-09 | 7.68E-08 | | [regulation of multicellular organismal development](http://amigo.geneontology.org/amigo/term/GO:2000026) | [1383](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&list=upload_1&organism=Homo%20sapiens) | 63.21 | 1.82 | + | 2.58E-09 | 1.46E-07 | | [regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051239) | [2750](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&reflist=1) | [240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&list=upload_1&organism=Homo%20sapiens) | 125.69 | 1.91 | + | 3.49E-22 | 1.03E-19 | | [regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002682) | [1520](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&reflist=1) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&list=upload_1&organism=Homo%20sapiens) | 69.47 | 2.07 | + | 1.23E-15 | 1.68E-13 | | [regulation of lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0051249) | [591](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&list=upload_1&organism=Homo%20sapiens) | 27.01 | 2.15 | + | 2.51E-07 | 1.09E-05 | | [regulation of leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002694) | [684](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002694&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002694&list=upload_1&organism=Homo%20sapiens) | 31.26 | 1.98 | + | 1.51E-06 | 5.49E-05 | | [regulation of cell activation](http://amigo.geneontology.org/amigo/term/GO:0050865) | [741](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&list=upload_1&organism=Homo%20sapiens) | 33.87 | 1.95 | + | 1.02E-06 | 3.84E-05 | | [positive regulation of leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:1902107) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902107&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902107&list=upload_1&organism=Homo%20sapiens) | 8.36 | 2.87 | + | 1.35E-05 | 4.05E-04 | | [positive regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045597) | [884](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&list=upload_1&organism=Homo%20sapiens) | 40.40 | 2.10 | + | 8.61E-10 | 5.30E-08 | | [positive regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0048522) | [5670](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&reflist=1) | [463](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&list=upload_1&organism=Homo%20sapiens) | 259.14 | 1.79 | + | 1.02E-42 | 1.60E-38 | | [positive regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0048518) | [6304](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&reflist=1) | [490](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&list=upload_1&organism=Homo%20sapiens) | 288.12 | 1.70 | + | 1.93E-40 | 1.51E-36 | | [positive regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0051094) | [1339](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&list=upload_1&organism=Homo%20sapiens) | 61.20 | 2.08 | + | 7.83E-14 | 9.17E-12 | | [positive regulation of hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:1903708) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903708&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903708&list=upload_1&organism=Homo%20sapiens) | 8.36 | 2.87 | + | 1.35E-05 | 4.05E-04 | | [positive regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051240) | [1515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&reflist=1) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&list=upload_1&organism=Homo%20sapiens) | 69.24 | 2.12 | + | 8.18E-17 | 1.26E-14 | | [positive regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002684) | [967](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002684&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002684&list=upload_1&organism=Homo%20sapiens) | 44.20 | 2.04 | + | 1.59E-09 | 9.32E-08 | | [positive regulation of lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0051251) | [421](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051251&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051251&list=upload_1&organism=Homo%20sapiens) | 19.24 | 2.08 | + | 4.13E-05 | 1.10E-03 | | [positive regulation of leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002696) | [469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002696&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002696&list=upload_1&organism=Homo%20sapiens) | 21.44 | 1.96 | + | 1.01E-04 | 2.42E-03 | | [positive regulation of cell activation](http://amigo.geneontology.org/amigo/term/GO:0050867) | [486](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050867&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050867&list=upload_1&organism=Homo%20sapiens) | 22.21 | 1.94 | + | 9.10E-05 | 2.22E-03 | | [positive regulation of T cell activation](http://amigo.geneontology.org/amigo/term/GO:0050870) | [253](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050870&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050870&list=upload_1&organism=Homo%20sapiens) | 11.56 | 2.59 | + | 1.03E-05 | 3.18E-04 | | [positive regulation of leukocyte cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:1903039) | [276](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903039&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903039&list=upload_1&organism=Homo%20sapiens) | 12.61 | 2.85 | + | 1.17E-07 | 5.29E-06 | | [regulation of leukocyte cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:1903037) | [369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903037&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903037&list=upload_1&organism=Homo%20sapiens) | 16.86 | 2.43 | + | 9.61E-07 | 3.67E-05 | | [regulation of cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0022407) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022407&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022407&list=upload_1&organism=Homo%20sapiens) | 22.12 | 2.22 | + | 9.19E-07 | 3.52E-05 | | [regulation of cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0030155) | [789](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&list=upload_1&organism=Homo%20sapiens) | 36.06 | 2.14 | + | 4.18E-09 | 2.30E-07 | | [positive regulation of cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0022409) | [324](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022409&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022409&list=upload_1&organism=Homo%20sapiens) | 14.81 | 2.84 | + | 1.22E-08 | 6.44E-07 | | [positive regulation of cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0045785) | [488](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045785&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045785&list=upload_1&organism=Homo%20sapiens) | 22.30 | 2.38 | + | 4.57E-08 | 2.23E-06 | | [regulation of T cell activation](http://amigo.geneontology.org/amigo/term/GO:0050863) | [377](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050863&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050863&list=upload_1&organism=Homo%20sapiens) | 17.23 | 2.44 | + | 6.61E-07 | 2.62E-05 | | [regulation of T cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045580) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045580&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045580&list=upload_1&organism=Homo%20sapiens) | 8.18 | 2.69 | + | 7.31E-05 | 1.83E-03 | | [regulation of immune response](http://amigo.geneontology.org/amigo/term/GO:0050776) | [935](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&list=upload_1&organism=Homo%20sapiens) | 42.73 | 2.11 | + | 3.04E-10 | 2.03E-08 | | [positive regulation of immune response](http://amigo.geneontology.org/amigo/term/GO:0050778) | [590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050778&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050778&list=upload_1&organism=Homo%20sapiens) | 26.97 | 2.23 | + | 4.76E-08 | 2.31E-06 | | [positive regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048584) | [2223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&reflist=1) | [197](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&list=upload_1&organism=Homo%20sapiens) | 101.60 | 1.94 | + | 1.56E-18 | 2.98E-16 | | [regulation of helicase activity](http://amigo.geneontology.org/amigo/term/GO:0051095) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051095&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051095&list=upload_1&organism=Homo%20sapiens) | .55 | 9.12 | + | 6.29E-04 | 1.14E-02 | | [regulation of mRNA binding](http://amigo.geneontology.org/amigo/term/GO:1902415) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902415&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902415&list=upload_1&organism=Homo%20sapiens) | .46 | 8.75 | + | 2.55E-03 | 3.59E-02 | | [regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051098) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&list=upload_1&organism=Homo%20sapiens) | 17.09 | 3.10 | + | 7.64E-12 | 6.55E-10 | | [transcription-coupled nucleotide-excision repair](http://amigo.geneontology.org/amigo/term/GO:0006283) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006283&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006283&list=upload_1&organism=Homo%20sapiens) | .46 | 8.75 | + | 2.55E-03 | 3.59E-02 | | [nucleotide-excision repair](http://amigo.geneontology.org/amigo/term/GO:0006289) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006289&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006289&list=upload_1&organism=Homo%20sapiens) | 2.56 | 5.08 | + | 7.78E-06 | 2.46E-04 | | [DNA repair](http://amigo.geneontology.org/amigo/term/GO:0006281) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006281&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006281&list=upload_1&organism=Homo%20sapiens) | 23.22 | 2.33 | + | 8.36E-08 | 3.89E-06 | | [cellular response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:0006974) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006974&reflist=1) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006974&list=upload_1&organism=Homo%20sapiens) | 34.55 | 2.49 | + | 1.99E-13 | 2.18E-11 | | [cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0033554) | [1599](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&reflist=1) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&list=upload_1&organism=Homo%20sapiens) | 73.08 | 2.45 | + | 5.81E-27 | 2.34E-24 | | [response to stress](http://amigo.geneontology.org/amigo/term/GO:0006950) | [3466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&reflist=1) | [308](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&list=upload_1&organism=Homo%20sapiens) | 158.41 | 1.94 | + | 6.20E-31 | 3.89E-28 | | [mammary gland epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0060644) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060644&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060644&list=upload_1&organism=Homo%20sapiens) | .82 | 8.51 | + | 7.17E-05 | 1.81E-03 | | [mammary gland epithelium development](http://amigo.geneontology.org/amigo/term/GO:0061180) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&list=upload_1&organism=Homo%20sapiens) | 2.88 | 5.21 | + | 1.20E-06 | 4.48E-05 | | [mammary gland development](http://amigo.geneontology.org/amigo/term/GO:0030879) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&list=upload_1&organism=Homo%20sapiens) | 5.99 | 3.51 | + | 3.00E-06 | 1.04E-04 | | [gland development](http://amigo.geneontology.org/amigo/term/GO:0048732) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&list=upload_1&organism=Homo%20sapiens) | 19.29 | 2.90 | + | 1.96E-11 | 1.58E-09 | | [epithelium development](http://amigo.geneontology.org/amigo/term/GO:0060429) | [1072](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&list=upload_1&organism=Homo%20sapiens) | 48.99 | 1.84 | + | 1.20E-07 | 5.44E-06 | | [tissue development](http://amigo.geneontology.org/amigo/term/GO:0009888) | [1726](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&reflist=1) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&list=upload_1&organism=Homo%20sapiens) | 78.89 | 1.64 | + | 1.03E-07 | 4.72E-06 | | [epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030855) | [620](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&list=upload_1&organism=Homo%20sapiens) | 28.34 | 1.94 | + | 8.79E-06 | 2.76E-04 | | [regulation of apoptotic process involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:1902337) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902337&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902337&list=upload_1&organism=Homo%20sapiens) | .59 | 8.42 | + | 8.40E-04 | 1.44E-02 | | [regulation of apoptotic process involved in development](http://amigo.geneontology.org/amigo/term/GO:1904748) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904748&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904748&list=upload_1&organism=Homo%20sapiens) | .59 | 8.42 | + | 8.40E-04 | 1.43E-02 | | [regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0042981) | [1468](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&reflist=1) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&list=upload_1&organism=Homo%20sapiens) | 67.09 | 2.61 | + | 2.97E-29 | 1.50E-26 | | [regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043067) | [1498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&reflist=1) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&list=upload_1&organism=Homo%20sapiens) | 68.46 | 2.64 | + | 5.37E-31 | 3.51E-28 | | [regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010941) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&reflist=1) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&list=upload_1&organism=Homo%20sapiens) | 75.59 | 2.62 | + | 1.40E-33 | 2.19E-30 | | [negative regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051974) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051974&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051974&list=upload_1&organism=Homo%20sapiens) | .59 | 8.42 | + | 8.40E-04 | 1.44E-02 | | [negative regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051348) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051348&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051348&list=upload_1&organism=Homo%20sapiens) | 12.57 | 2.23 | + | 1.84E-04 | 4.06E-03 | | [regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051338) | [915](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&reflist=1) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&list=upload_1&organism=Homo%20sapiens) | 41.82 | 2.25 | + | 4.01E-12 | 3.61E-10 | | [negative regulation of DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000279) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000279&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000279&list=upload_1&organism=Homo%20sapiens) | 1.83 | 4.92 | + | 2.38E-04 | 5.02E-03 | | [negative regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010558) | [1533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010558&reflist=1) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010558&list=upload_1&organism=Homo%20sapiens) | 70.06 | 1.90 | + | 8.77E-12 | 7.48E-10 | | [negative regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010605) | [2764](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&reflist=1) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&list=upload_1&organism=Homo%20sapiens) | 126.33 | 1.92 | + | 9.19E-23 | 2.88E-20 | | [negative regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009890) | [1624](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009890&reflist=1) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009890&list=upload_1&organism=Homo%20sapiens) | 74.22 | 1.86 | + | 1.29E-11 | 1.08E-09 | | [regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009889) | [4163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&reflist=1) | [321](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&list=upload_1&organism=Homo%20sapiens) | 190.27 | 1.69 | + | 3.98E-22 | 1.16E-19 | | [regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010556) | [3938](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&reflist=1) | [306](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&list=upload_1&organism=Homo%20sapiens) | 179.98 | 1.70 | + | 2.29E-21 | 6.31E-19 | | [negative regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051053) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051053&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051053&list=upload_1&organism=Homo%20sapiens) | 6.76 | 2.51 | + | 9.26E-04 | 1.54E-02 | | [regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051052) | [541](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051052&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051052&list=upload_1&organism=Homo%20sapiens) | 24.73 | 2.71 | + | 4.39E-12 | 3.94E-10 | | [negative regulation of cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0031327) | [1594](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031327&reflist=1) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031327&list=upload_1&organism=Homo%20sapiens) | 72.85 | 1.85 | + | 3.13E-11 | 2.45E-09 | | [regulation of cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0031326) | [4102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&reflist=1) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&list=upload_1&organism=Homo%20sapiens) | 187.48 | 1.69 | + | 1.22E-21 | 3.42E-19 | | [regulation of DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000278) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000278&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000278&list=upload_1&organism=Homo%20sapiens) | 5.71 | 4.38 | + | 8.04E-09 | 4.35E-07 | | [regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051972) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&list=upload_1&organism=Homo%20sapiens) | 2.29 | 6.56 | + | 9.71E-08 | 4.46E-06 | | [amyloid fibril formation](http://amigo.geneontology.org/amigo/term/GO:1990000) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990000&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990000&list=upload_1&organism=Homo%20sapiens) | 1.19 | 8.42 | + | 2.18E-06 | 7.75E-05 | | [supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:0097435) | [580](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&list=upload_1&organism=Homo%20sapiens) | 26.51 | 1.70 | + | 9.94E-04 | 1.62E-02 | | [positive regulation of autophagy of mitochondrion](http://amigo.geneontology.org/amigo/term/GO:1903599) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903599&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903599&list=upload_1&organism=Homo%20sapiens) | .59 | 8.42 | + | 8.40E-04 | 1.43E-02 | | [positive regulation of mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0010822) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010822&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010822&list=upload_1&organism=Homo%20sapiens) | 3.47 | 3.17 | + | 1.41E-03 | 2.19E-02 | | [regulation of mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0010821) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&list=upload_1&organism=Homo%20sapiens) | 6.95 | 3.60 | + | 2.30E-07 | 1.01E-05 | | [regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0033043) | [1189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&reflist=1) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&list=upload_1&organism=Homo%20sapiens) | 54.34 | 2.21 | + | 7.96E-15 | 1.01E-12 | | [regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051128) | [2364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&reflist=1) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&list=upload_1&organism=Homo%20sapiens) | 108.04 | 1.80 | + | 5.49E-15 | 7.06E-13 | | [positive regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0010638) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010638&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010638&list=upload_1&organism=Homo%20sapiens) | 23.22 | 2.37 | + | 2.61E-08 | 1.31E-06 | | [positive regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051130) | [1054](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&reflist=1) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&list=upload_1&organism=Homo%20sapiens) | 48.17 | 2.14 | + | 4.46E-12 | 3.97E-10 | | [positive regulation of cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0031331) | [411](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031331&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031331&list=upload_1&organism=Homo%20sapiens) | 18.78 | 2.18 | + | 1.13E-05 | 3.46E-04 | | [positive regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009896) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009896&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009896&list=upload_1&organism=Homo%20sapiens) | 23.45 | 2.05 | + | 1.29E-05 | 3.93E-04 | | [positive regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009893) | [3858](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&reflist=1) | [338](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&list=upload_1&organism=Homo%20sapiens) | 176.33 | 1.92 | + | 1.99E-33 | 2.23E-30 | | [regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009894) | [987](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&reflist=1) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&list=upload_1&organism=Homo%20sapiens) | 45.11 | 2.28 | + | 1.40E-13 | 1.56E-11 | | [regulation of cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0031329) | [786](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&list=upload_1&organism=Homo%20sapiens) | 35.92 | 2.28 | + | 4.55E-11 | 3.48E-09 | | [positive regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031325) | [3122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&reflist=1) | [297](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&list=upload_1&organism=Homo%20sapiens) | 142.69 | 2.08 | + | 1.35E-34 | 4.25E-31 | | [regulation of autophagy](http://amigo.geneontology.org/amigo/term/GO:0010506) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&list=upload_1&organism=Homo%20sapiens) | 15.77 | 2.22 | + | 3.52E-05 | 9.64E-04 | | [regulation of autophagy of mitochondrion](http://amigo.geneontology.org/amigo/term/GO:1903146) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903146&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903146&list=upload_1&organism=Homo%20sapiens) | 1.65 | 5.47 | + | 1.20E-04 | 2.81E-03 | | [t-circle formation](http://amigo.geneontology.org/amigo/term/GO:0090656) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090656&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090656&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.48E-02 | | [telomere maintenance via telomere trimming](http://amigo.geneontology.org/amigo/term/GO:0090737) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090737&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090737&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.48E-02 | | [formation of extrachromosomal circular DNA](http://amigo.geneontology.org/amigo/term/GO:0001325) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001325&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001325&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.47E-02 | | [regulation of glucocorticoid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031943) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031943&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031943&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.47E-02 | | [regulation of hormone metabolic process](http://amigo.geneontology.org/amigo/term/GO:0032350) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032350&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032350&list=upload_1&organism=Homo%20sapiens) | 1.83 | 4.92 | + | 2.38E-04 | 5.01E-03 | | [regulation of hormone levels](http://amigo.geneontology.org/amigo/term/GO:0010817) | [528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010817&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010817&list=upload_1&organism=Homo%20sapiens) | 24.13 | 2.07 | + | 4.29E-06 | 1.45E-04 | | [regulation of biological quality](http://amigo.geneontology.org/amigo/term/GO:0065008) | [3677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&reflist=1) | [281](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&list=upload_1&organism=Homo%20sapiens) | 168.05 | 1.67 | + | 2.42E-18 | 4.53E-16 | | [regulation of lipid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019216) | [346](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019216&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019216&list=upload_1&organism=Homo%20sapiens) | 15.81 | 2.28 | + | 1.94E-05 | 5.66E-04 | | [negative regulation of appetite](http://amigo.geneontology.org/amigo/term/GO:0032099) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032099&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032099&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.46E-02 | | [negative regulation of response to food](http://amigo.geneontology.org/amigo/term/GO:0032096) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032096&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032096&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.45E-02 | | [regulation of response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0032101) | [973](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&list=upload_1&organism=Homo%20sapiens) | 44.47 | 2.09 | + | 1.58E-10 | 1.11E-08 | | [negative regulation of response to nutrient levels](http://amigo.geneontology.org/amigo/term/GO:0032108) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032108&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032108&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.46E-02 | | [negative regulation of response to extracellular stimulus](http://amigo.geneontology.org/amigo/term/GO:0032105) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032105&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032105&list=upload_1&organism=Homo%20sapiens) | .50 | 7.96 | + | 3.36E-03 | 4.46E-02 | | [negative regulation of response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0032102) | [391](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032102&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032102&list=upload_1&organism=Homo%20sapiens) | 17.87 | 2.29 | + | 3.69E-06 | 1.26E-04 | | [response to nutrient levels](http://amigo.geneontology.org/amigo/term/GO:0031667) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031667&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031667&list=upload_1&organism=Homo%20sapiens) | 21.48 | 2.61 | + | 8.15E-10 | 5.03E-08 | | [response to extracellular stimulus](http://amigo.geneontology.org/amigo/term/GO:0009991) | [500](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009991&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009991&list=upload_1&organism=Homo%20sapiens) | 22.85 | 2.54 | + | 1.24E-09 | 7.38E-08 | | [response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0009605) | [2469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&reflist=1) | [219](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&list=upload_1&organism=Homo%20sapiens) | 112.84 | 1.94 | + | 7.41E-21 | 1.94E-18 | | [cellular response to antibiotic](http://amigo.geneontology.org/amigo/term/GO:0071236) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071236&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071236&list=upload_1&organism=Homo%20sapiens) | .64 | 7.81 | + | 1.10E-03 | 1.78E-02 | | [response to antibiotic](http://amigo.geneontology.org/amigo/term/GO:0046677) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046677&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046677&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 8.68E-04 | 1.47E-02 | | [positive regulation by host of viral transcription](http://amigo.geneontology.org/amigo/term/GO:0043923) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043923&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043923&list=upload_1&organism=Homo%20sapiens) | .78 | 7.72 | + | 3.65E-04 | 7.21E-03 | | [response to muscle stretch](http://amigo.geneontology.org/amigo/term/GO:0035994) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035994&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035994&list=upload_1&organism=Homo%20sapiens) | 1.19 | 7.57 | + | 1.42E-05 | 4.25E-04 | | [response to mechanical stimulus](http://amigo.geneontology.org/amigo/term/GO:0009612) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&list=upload_1&organism=Homo%20sapiens) | 9.96 | 3.61 | + | 4.86E-10 | 3.12E-08 | | [response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009628) | [1121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&reflist=1) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&list=upload_1&organism=Homo%20sapiens) | 51.23 | 2.56 | + | 4.50E-21 | 1.20E-18 | | [NIK/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0038061) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038061&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038061&list=upload_1&organism=Homo%20sapiens) | 1.65 | 7.29 | + | 7.36E-07 | 2.89E-05 | | [intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:0035556) | [1511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&reflist=1) | [153](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&list=upload_1&organism=Homo%20sapiens) | 69.06 | 2.22 | + | 4.52E-19 | 8.86E-17 | | [positive regulation of protein export from nucleus](http://amigo.geneontology.org/amigo/term/GO:0046827) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046827&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046827&list=upload_1&organism=Homo%20sapiens) | .82 | 7.29 | + | 4.69E-04 | 8.90E-03 | | [regulation of protein export from nucleus](http://amigo.geneontology.org/amigo/term/GO:0046825) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046825&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046825&list=upload_1&organism=Homo%20sapiens) | 1.46 | 5.47 | + | 2.86E-04 | 5.86E-03 | | [regulation of intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0033157) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&list=upload_1&organism=Homo%20sapiens) | 10.56 | 2.94 | + | 5.04E-07 | 2.03E-05 | | [regulation of protein transport](http://amigo.geneontology.org/amigo/term/GO:0051223) | [502](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&list=upload_1&organism=Homo%20sapiens) | 22.94 | 2.62 | + | 1.77E-10 | 1.23E-08 | | [regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051049) | [1766](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&reflist=1) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&list=upload_1&organism=Homo%20sapiens) | 80.71 | 1.85 | + | 2.71E-12 | 2.53E-10 | | [regulation of intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0032386) | [342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&list=upload_1&organism=Homo%20sapiens) | 15.63 | 2.62 | + | 1.58E-07 | 7.06E-06 | | [regulation of nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0046822) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&list=upload_1&organism=Homo%20sapiens) | 5.12 | 3.71 | + | 4.25E-06 | 1.44E-04 | | [positive regulation of intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0090316) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090316&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090316&list=upload_1&organism=Homo%20sapiens) | 7.31 | 3.42 | + | 5.40E-07 | 2.17E-05 | | [positive regulation of protein transport](http://amigo.geneontology.org/amigo/term/GO:0051222) | [304](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051222&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051222&list=upload_1&organism=Homo%20sapiens) | 13.89 | 3.02 | + | 2.30E-09 | 1.32E-07 | | [positive regulation of establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:1904951) | [320](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904951&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904951&list=upload_1&organism=Homo%20sapiens) | 14.63 | 3.08 | + | 3.70E-10 | 2.43E-08 | | [positive regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:1903829) | [462](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&list=upload_1&organism=Homo%20sapiens) | 21.12 | 2.70 | + | 2.28E-10 | 1.56E-08 | | [positive regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051050) | [919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&reflist=1) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&list=upload_1&organism=Homo%20sapiens) | 42.00 | 2.10 | + | 6.12E-10 | 3.86E-08 | | [positive regulation of intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0032388) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032388&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032388&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.91 | + | 3.14E-06 | 1.09E-04 | | [positive regulation of nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0046824) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046824&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046824&list=upload_1&organism=Homo%20sapiens) | 2.93 | 5.13 | + | 1.42E-06 | 5.23E-05 | | [negative regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902894) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902894&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902894&list=upload_1&organism=Homo%20sapiens) | .96 | 7.29 | + | 1.57E-04 | 3.54E-03 | | [negative regulation of DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0045892) | [1323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045892&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045892&list=upload_1&organism=Homo%20sapiens) | 60.47 | 1.85 | + | 1.79E-09 | 1.04E-07 | | [regulation of DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0006355) | [3454](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006355&reflist=1) | [250](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006355&list=upload_1&organism=Homo%20sapiens) | 157.86 | 1.58 | + | 2.12E-13 | 2.30E-11 | | [regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010468) | [4855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&reflist=1) | [357](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&list=upload_1&organism=Homo%20sapiens) | 221.89 | 1.61 | + | 9.21E-22 | 2.62E-19 | | [regulation of nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:1903506) | [3456](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&reflist=1) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&list=upload_1&organism=Homo%20sapiens) | 157.95 | 1.59 | + | 1.11E-13 | 1.28E-11 | | [regulation of RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2001141) | [3465](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&reflist=1) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&list=upload_1&organism=Homo%20sapiens) | 158.36 | 1.59 | + | 8.40E-14 | 9.76E-12 | | [regulation of RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051252) | [3752](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051252&reflist=1) | [271](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051252&list=upload_1&organism=Homo%20sapiens) | 171.48 | 1.58 | + | 1.25E-14 | 1.57E-12 | | [negative regulation of nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:1903507) | [1325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903507&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903507&list=upload_1&organism=Homo%20sapiens) | 60.56 | 1.87 | + | 1.20E-09 | 7.24E-08 | | [negative regulation of RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1902679) | [1327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&list=upload_1&organism=Homo%20sapiens) | 60.65 | 1.86 | + | 1.23E-09 | 7.35E-08 | | [negative regulation of RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051253) | [1435](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051253&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051253&list=upload_1&organism=Homo%20sapiens) | 65.59 | 1.89 | + | 5.14E-11 | 3.90E-09 | | [negative regulation of miRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000629) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000629&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000629&list=upload_1&organism=Homo%20sapiens) | 1.01 | 6.96 | + | 2.00E-04 | 4.33E-03 | | [regulation of miRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000628) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000628&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000628&list=upload_1&organism=Homo%20sapiens) | 3.38 | 6.21 | + | 6.41E-10 | 4.02E-08 | | [regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902893) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&list=upload_1&organism=Homo%20sapiens) | 2.88 | 6.60 | + | 1.80E-09 | 1.04E-07 | | [negative regulation of transcription elongation by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0034244) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034244&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034244&list=upload_1&organism=Homo%20sapiens) | .82 | 7.29 | + | 4.69E-04 | 8.89E-03 | | [negative regulation of DNA-templated transcription, elongation](http://amigo.geneontology.org/amigo/term/GO:0032785) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032785&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032785&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.54E-02 | | [regulation of transcription elongation by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0034243) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034243&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034243&list=upload_1&organism=Homo%20sapiens) | 3.93 | 2.80 | + | 3.38E-03 | 4.46E-02 | | [programmed necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0097300) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097300&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097300&list=upload_1&organism=Homo%20sapiens) | 1.14 | 7.00 | + | 6.77E-05 | 1.72E-03 | | [programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0012501) | [1074](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&reflist=1) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&list=upload_1&organism=Homo%20sapiens) | 49.09 | 2.47 | + | 3.01E-18 | 5.50E-16 | | [cell death](http://amigo.geneontology.org/amigo/term/GO:0008219) | [1108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&list=upload_1&organism=Homo%20sapiens) | 50.64 | 2.45 | + | 1.50E-18 | 2.90E-16 | | [necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0070265) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070265&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070265&list=upload_1&organism=Homo%20sapiens) | 1.28 | 7.03 | + | 2.31E-05 | 6.64E-04 | | [positive regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902895) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902895&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902895&list=upload_1&organism=Homo%20sapiens) | 2.15 | 6.98 | + | 4.92E-08 | 2.36E-06 | | [positive regulation of miRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000630) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000630&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000630&list=upload_1&organism=Homo%20sapiens) | 2.42 | 6.61 | + | 3.38E-08 | 1.68E-06 | | [positive regulation of RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051254) | [1848](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051254&reflist=1) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051254&list=upload_1&organism=Homo%20sapiens) | 84.46 | 2.11 | + | 3.96E-20 | 9.42E-18 | | [positive regulation of nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045935) | [2058](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&reflist=1) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&list=upload_1&organism=Homo%20sapiens) | 94.06 | 2.22 | + | 1.35E-26 | 5.17E-24 | | [positive regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051173) | [3174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&reflist=1) | [299](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&list=upload_1&organism=Homo%20sapiens) | 145.06 | 2.06 | + | 3.88E-34 | 7.60E-31 | | [positive regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010604) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&reflist=1) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&list=upload_1&organism=Homo%20sapiens) | 161.88 | 1.96 | + | 1.60E-32 | 1.48E-29 | | [positive regulation of DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0045893) | [1715](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045893&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045893&list=upload_1&organism=Homo%20sapiens) | 78.38 | 2.14 | + | 1.63E-19 | 3.42E-17 | | [positive regulation of nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:1903508) | [1715](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903508&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903508&list=upload_1&organism=Homo%20sapiens) | 78.38 | 2.14 | + | 1.63E-19 | 3.46E-17 | | [positive regulation of RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1902680) | [1721](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902680&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902680&list=upload_1&organism=Homo%20sapiens) | 78.66 | 2.14 | + | 1.92E-19 | 3.96E-17 | | [positive regulation of cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0031328) | [2048](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&reflist=1) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&list=upload_1&organism=Homo%20sapiens) | 93.60 | 2.23 | + | 8.95E-27 | 3.51E-24 | | [positive regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009891) | [2087](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&reflist=1) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&list=upload_1&organism=Homo%20sapiens) | 95.38 | 2.23 | + | 2.20E-27 | 9.31E-25 | | [positive regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010557) | [1943](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&list=upload_1&organism=Homo%20sapiens) | 88.80 | 2.24 | + | 1.48E-25 | 5.40E-23 | | [positive regulation of oxidative stress-induced cell death](http://amigo.geneontology.org/amigo/term/GO:1903209) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903209&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903209&list=upload_1&organism=Homo%20sapiens) | 1.01 | 6.96 | + | 2.00E-04 | 4.33E-03 | | [regulation of oxidative stress-induced cell death](http://amigo.geneontology.org/amigo/term/GO:1903201) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903201&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903201&list=upload_1&organism=Homo%20sapiens) | 3.34 | 4.20 | + | 2.33E-05 | 6.68E-04 | | [regulation of cellular response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:1900407) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900407&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900407&list=upload_1&organism=Homo%20sapiens) | 3.84 | 3.91 | + | 2.52E-05 | 7.16E-04 | | [regulation of cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0080135) | [709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&list=upload_1&organism=Homo%20sapiens) | 32.40 | 2.31 | + | 1.83E-10 | 1.27E-08 | | [regulation of response to stress](http://amigo.geneontology.org/amigo/term/GO:0080134) | [1373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&reflist=1) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&list=upload_1&organism=Homo%20sapiens) | 62.75 | 2.18 | + | 1.46E-16 | 2.16E-14 | | [regulation of response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:1902882) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902882&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902882&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.49 | + | 7.92E-05 | 1.97E-03 | | [positive regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010942) | [583](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&list=upload_1&organism=Homo%20sapiens) | 26.65 | 2.89 | + | 3.50E-15 | 4.65E-13 | | [DNA unwinding involved in DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006268) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006268&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006268&list=upload_1&organism=Homo%20sapiens) | 1.01 | 6.96 | + | 2.00E-04 | 4.32E-03 | | [DNA duplex unwinding](http://amigo.geneontology.org/amigo/term/GO:0032508) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032508&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032508&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.33 | + | 2.11E-04 | 4.53E-03 | | [DNA geometric change](http://amigo.geneontology.org/amigo/term/GO:0032392) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032392&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032392&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.13 | + | 3.77E-04 | 7.43E-03 | | [DNA conformation change](http://amigo.geneontology.org/amigo/term/GO:0071103) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071103&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071103&list=upload_1&organism=Homo%20sapiens) | 4.89 | 2.86 | + | 8.27E-04 | 1.42E-02 | | [DNA-templated DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006261) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006261&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006261&list=upload_1&organism=Homo%20sapiens) | 6.35 | 2.52 | + | 1.27E-03 | 2.01E-02 | | [DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006260) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006260&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006260&list=upload_1&organism=Homo%20sapiens) | 9.37 | 2.45 | + | 2.10E-04 | 4.52E-03 | | [replicative senescence](http://amigo.geneontology.org/amigo/term/GO:0090399) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090399&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090399&list=upload_1&organism=Homo%20sapiens) | .73 | 6.84 | + | 1.79E-03 | 2.69E-02 | | [positive regulation of leukocyte adhesion to vascular endothelial cell](http://amigo.geneontology.org/amigo/term/GO:1904996) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904996&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904996&list=upload_1&organism=Homo%20sapiens) | 1.05 | 6.66 | + | 2.51E-04 | 5.24E-03 | | [regulation of leukocyte adhesion to vascular endothelial cell](http://amigo.geneontology.org/amigo/term/GO:1904994) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904994&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904994&list=upload_1&organism=Homo%20sapiens) | 1.37 | 5.11 | + | 9.72E-04 | 1.59E-02 | | [negative regulation of miRNA-mediated gene silencing](http://amigo.geneontology.org/amigo/term/GO:0060965) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060965&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060965&list=upload_1&organism=Homo%20sapiens) | .91 | 6.56 | + | 7.44E-04 | 1.30E-02 | | [regulation of miRNA-mediated gene silencing](http://amigo.geneontology.org/amigo/term/GO:0060964) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060964&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060964&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.69 | + | 3.26E-04 | 6.55E-03 | | [regulation of post-transcriptional gene silencing by RNA](http://amigo.geneontology.org/amigo/term/GO:1900368) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900368&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900368&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.48 | + | 4.39E-04 | 8.46E-03 | | [regulation of post-transcriptional gene silencing](http://amigo.geneontology.org/amigo/term/GO:0060147) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060147&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060147&list=upload_1&organism=Homo%20sapiens) | 2.06 | 4.38 | + | 5.07E-04 | 9.43E-03 | | [regulation of gene silencing by RNA](http://amigo.geneontology.org/amigo/term/GO:0060966) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060966&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060966&list=upload_1&organism=Homo%20sapiens) | 2.10 | 4.28 | + | 5.83E-04 | 1.07E-02 | | [negative regulation of post-transcriptional gene silencing by RNA](http://amigo.geneontology.org/amigo/term/GO:1900369) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900369&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900369&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.54E-02 | | [negative regulation of post-transcriptional gene silencing](http://amigo.geneontology.org/amigo/term/GO:0060149) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060149&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060149&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.55E-02 | | [positive regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010628) | [1151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&list=upload_1&organism=Homo%20sapiens) | 52.61 | 2.36 | + | 2.36E-17 | 3.89E-15 | | [negative regulation of gene silencing by RNA](http://amigo.geneontology.org/amigo/term/GO:0060967) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060967&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060967&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.54E-02 | | [positive regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051973) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051973&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051973&list=upload_1&organism=Homo%20sapiens) | 1.55 | 6.44 | + | 1.55E-05 | 4.60E-04 | | [positive regulation of DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000573) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000573&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000573&list=upload_1&organism=Homo%20sapiens) | 3.43 | 4.96 | + | 4.31E-07 | 1.77E-05 | | [positive regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051054) | [305](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&list=upload_1&organism=Homo%20sapiens) | 13.94 | 3.23 | + | 9.26E-11 | 6.66E-09 | | [positive regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051347) | [590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&list=upload_1&organism=Homo%20sapiens) | 26.97 | 2.26 | + | 2.45E-08 | 1.25E-06 | | [negative regulation of cell division](http://amigo.geneontology.org/amigo/term/GO:0051782) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051782&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051782&list=upload_1&organism=Homo%20sapiens) | .78 | 6.44 | + | 2.23E-03 | 3.21E-02 | | [regulation of cell division](http://amigo.geneontology.org/amigo/term/GO:0051302) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051302&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051302&list=upload_1&organism=Homo%20sapiens) | 8.64 | 2.55 | + | 2.26E-04 | 4.78E-03 | | [3'-UTR-mediated mRNA destabilization](http://amigo.geneontology.org/amigo/term/GO:0061158) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061158&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061158&list=upload_1&organism=Homo%20sapiens) | .78 | 6.44 | + | 2.23E-03 | 3.21E-02 | | [regulation of mRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:1903311) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903311&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903311&list=upload_1&organism=Homo%20sapiens) | 13.76 | 2.11 | + | 3.48E-04 | 6.93E-03 | | [regulation of cellular amide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0034248) | [469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&list=upload_1&organism=Homo%20sapiens) | 21.44 | 2.47 | + | 1.28E-08 | 6.72E-07 | | [regulation of cellular macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000112) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&list=upload_1&organism=Homo%20sapiens) | 22.53 | 2.35 | + | 5.75E-08 | 2.74E-06 | | [negative regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051248) | [1042](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&reflist=1) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&list=upload_1&organism=Homo%20sapiens) | 47.62 | 2.20 | + | 5.92E-13 | 5.84E-11 | | [regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051246) | [2587](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&reflist=1) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&list=upload_1&organism=Homo%20sapiens) | 118.24 | 2.21 | + | 1.53E-33 | 2.17E-30 | | [regulation of translation](http://amigo.geneontology.org/amigo/term/GO:0006417) | [410](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006417&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006417&list=upload_1&organism=Homo%20sapiens) | 18.74 | 2.51 | + | 7.65E-08 | 3.58E-06 | | [post-transcriptional regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010608) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010608&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010608&list=upload_1&organism=Homo%20sapiens) | 22.76 | 2.42 | + | 1.72E-08 | 8.89E-07 | | [negative regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010629) | [902](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&reflist=1) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&list=upload_1&organism=Homo%20sapiens) | 41.23 | 2.21 | + | 1.81E-11 | 1.48E-09 | | [Fc-epsilon receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038095) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038095&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038095&list=upload_1&organism=Homo%20sapiens) | 1.10 | 6.38 | + | 3.12E-04 | 6.32E-03 | | [Fc receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038093) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038093&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038093&list=upload_1&organism=Homo%20sapiens) | 2.38 | 5.89 | + | 7.82E-07 | 3.06E-05 | | [immune response-regulating cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002768) | [315](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002768&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002768&list=upload_1&organism=Homo%20sapiens) | 14.40 | 2.22 | + | 8.49E-05 | 2.09E-03 | | [immune response-regulating signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002764) | [397](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002764&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002764&list=upload_1&organism=Homo%20sapiens) | 18.14 | 2.37 | + | 8.30E-07 | 3.22E-05 | | [cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007166) | [2174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&reflist=1) | [171](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&list=upload_1&organism=Homo%20sapiens) | 99.36 | 1.72 | + | 1.03E-11 | 8.69E-10 | | [negative regulation of stem cell differentiation](http://amigo.geneontology.org/amigo/term/GO:2000737) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000737&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000737&list=upload_1&organism=Homo%20sapiens) | 1.28 | 6.25 | + | 1.31E-04 | 3.04E-03 | | [regulation of stem cell differentiation](http://amigo.geneontology.org/amigo/term/GO:2000736) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000736&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000736&list=upload_1&organism=Homo%20sapiens) | 3.75 | 4.00 | + | 1.96E-05 | 5.71E-04 | | [negative regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045596) | [676](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&list=upload_1&organism=Homo%20sapiens) | 30.90 | 1.78 | + | 9.51E-05 | 2.31E-03 | | [negative regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0051093) | [923](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&list=upload_1&organism=Homo%20sapiens) | 42.18 | 1.66 | + | 8.75E-05 | 2.14E-03 | | [release of cytochrome c from mitochondria](http://amigo.geneontology.org/amigo/term/GO:0001836) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001836&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001836&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.55E-02 | | [apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097190) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&list=upload_1&organism=Homo%20sapiens) | 14.44 | 2.84 | + | 1.78E-08 | 9.17E-07 | | [apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006915) | [1033](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&reflist=1) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&list=upload_1&organism=Homo%20sapiens) | 47.21 | 2.48 | + | 6.74E-18 | 1.15E-15 | | [apoptotic mitochondrial changes](http://amigo.geneontology.org/amigo/term/GO:0008637) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008637&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008637&list=upload_1&organism=Homo%20sapiens) | 2.65 | 4.15 | + | 1.87E-04 | 4.11E-03 | | [mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0007005) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007005&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007005&list=upload_1&organism=Homo%20sapiens) | 20.34 | 1.87 | + | 4.44E-04 | 8.53E-03 | | [telomere maintenance via telomerase](http://amigo.geneontology.org/amigo/term/GO:0007004) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007004&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007004&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.54E-02 | | [RNA-templated DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0006278) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006278&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006278&list=upload_1&organism=Homo%20sapiens) | 1.55 | 4.50 | + | 1.82E-03 | 2.72E-02 | | [DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0071897) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071897&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071897&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.35 | + | 1.20E-04 | 2.82E-03 | | [nucleobase-containing compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0034654) | [1007](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034654&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034654&list=upload_1&organism=Homo%20sapiens) | 46.02 | 2.06 | + | 1.89E-10 | 1.30E-08 | | [heterocycle biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0018130) | [1079](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018130&reflist=1) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018130&list=upload_1&organism=Homo%20sapiens) | 49.31 | 2.07 | + | 3.56E-11 | 2.78E-09 | | [organic cyclic compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1901362) | [1216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901362&reflist=1) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901362&list=upload_1&organism=Homo%20sapiens) | 55.58 | 1.93 | + | 6.05E-10 | 3.84E-08 | | [aromatic compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0019438) | [1089](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019438&reflist=1) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019438&list=upload_1&organism=Homo%20sapiens) | 49.77 | 2.09 | + | 1.49E-11 | 1.24E-09 | | [telomere maintenance via telomere lengthening](http://amigo.geneontology.org/amigo/term/GO:0010833) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010833&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010833&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 3.23E-03 | 4.34E-02 | | [positive regulation of interleukin-17 production](http://amigo.geneontology.org/amigo/term/GO:0032740) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032740&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032740&list=upload_1&organism=Homo%20sapiens) | 1.28 | 6.25 | + | 1.31E-04 | 3.04E-03 | | [positive regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001819) | [481](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001819&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001819&list=upload_1&organism=Homo%20sapiens) | 21.98 | 2.37 | + | 6.93E-08 | 3.26E-06 | | [regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001817) | [742](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&list=upload_1&organism=Homo%20sapiens) | 33.91 | 2.33 | + | 4.27E-11 | 3.28E-09 | | [regulation of interleukin-17 production](http://amigo.geneontology.org/amigo/term/GO:0032660) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032660&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032660&list=upload_1&organism=Homo%20sapiens) | 1.87 | 4.27 | + | 1.18E-03 | 1.89E-02 | | [negative regulation of telomere maintenance via telomerase](http://amigo.geneontology.org/amigo/term/GO:0032211) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032211&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032211&list=upload_1&organism=Homo%20sapiens) | .96 | 6.25 | + | 9.22E-04 | 1.54E-02 | | [regulation of telomere maintenance via telomerase](http://amigo.geneontology.org/amigo/term/GO:0032210) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032210&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032210&list=upload_1&organism=Homo%20sapiens) | 2.47 | 4.46 | + | 1.08E-04 | 2.55E-03 | | [regulation of telomere maintenance via telomere lengthening](http://amigo.geneontology.org/amigo/term/GO:1904356) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904356&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904356&list=upload_1&organism=Homo%20sapiens) | 2.83 | 3.88 | + | 3.12E-04 | 6.32E-03 | | [regulation of telomere maintenance](http://amigo.geneontology.org/amigo/term/GO:0032204) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032204&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032204&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.47 | + | 5.00E-05 | 1.31E-03 | | [regulation of chromosome organization](http://amigo.geneontology.org/amigo/term/GO:0033044) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033044&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033044&list=upload_1&organism=Homo%20sapiens) | 11.52 | 3.04 | + | 4.41E-08 | 2.15E-06 | | [negative regulation of telomere maintenance via telomere lengthening](http://amigo.geneontology.org/amigo/term/GO:1904357) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904357&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904357&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 3.23E-03 | 4.35E-02 | | [negative regulation of telomere maintenance](http://amigo.geneontology.org/amigo/term/GO:0032205) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032205&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032205&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.25 | + | 2.42E-03 | 3.44E-02 | | [negative regulation of chromosome organization](http://amigo.geneontology.org/amigo/term/GO:2001251) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001251&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001251&list=upload_1&organism=Homo%20sapiens) | 3.75 | 3.74 | + | 7.16E-05 | 1.81E-03 | | [negative regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0010639) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&list=upload_1&organism=Homo%20sapiens) | 15.77 | 2.73 | + | 2.29E-08 | 1.17E-06 | | [negative regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051129) | [690](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&list=upload_1&organism=Homo%20sapiens) | 31.54 | 2.06 | + | 2.48E-07 | 1.08E-05 | | [cytoplasmic pattern recognition receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002753) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002753&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002753&list=upload_1&organism=Homo%20sapiens) | 1.28 | 6.25 | + | 1.31E-04 | 3.03E-03 | | [pattern recognition receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002221) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002221&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002221&list=upload_1&organism=Homo%20sapiens) | 4.52 | 3.32 | + | 1.33E-04 | 3.06E-03 | | [regulation of hormone biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0046885) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046885&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046885&list=upload_1&organism=Homo%20sapiens) | 1.14 | 6.13 | + | 3.84E-04 | 7.52E-03 | | [cellular response to epidermal growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0071364) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071364&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071364&list=upload_1&organism=Homo%20sapiens) | 1.97 | 6.11 | + | 3.50E-06 | 1.21E-04 | | [response to epidermal growth factor](http://amigo.geneontology.org/amigo/term/GO:0070849) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&list=upload_1&organism=Homo%20sapiens) | 2.15 | 6.05 | + | 1.50E-06 | 5.46E-05 | | [response to growth factor](http://amigo.geneontology.org/amigo/term/GO:0070848) | [507](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&list=upload_1&organism=Homo%20sapiens) | 23.17 | 2.72 | + | 1.94E-11 | 1.57E-09 | | [cellular response to growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0071363) | [477](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&list=upload_1&organism=Homo%20sapiens) | 21.80 | 2.71 | + | 1.00E-10 | 7.12E-09 | | [ERBB2 signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038128) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&list=upload_1&organism=Homo%20sapiens) | .82 | 6.08 | + | 2.75E-03 | 3.83E-02 | | [ERBB signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038127) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&list=upload_1&organism=Homo%20sapiens) | 2.83 | 5.29 | + | 1.01E-06 | 3.83E-05 | | [transmembrane receptor protein tyrosine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007169) | [424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&list=upload_1&organism=Homo%20sapiens) | 19.38 | 2.32 | + | 8.85E-07 | 3.41E-05 | | [enzyme-linked receptor protein signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007167) | [640](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&list=upload_1&organism=Homo%20sapiens) | 29.25 | 2.15 | + | 8.53E-08 | 3.96E-06 | | [positive regulation of vascular endothelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:1905564) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905564&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905564&list=upload_1&organism=Homo%20sapiens) | .82 | 6.08 | + | 2.75E-03 | 3.83E-02 | | [positive regulation of endothelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0001938) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001938&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001938&list=upload_1&organism=Homo%20sapiens) | 4.43 | 2.93 | + | 1.03E-03 | 1.67E-02 | | [positive regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050679) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&list=upload_1&organism=Homo%20sapiens) | 9.55 | 2.51 | + | 1.21E-04 | 2.82E-03 | | [regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050678) | [369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&list=upload_1&organism=Homo%20sapiens) | 16.86 | 2.19 | + | 3.63E-05 | 9.86E-04 | | [regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0042127) | [1674](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&reflist=1) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&list=upload_1&organism=Homo%20sapiens) | 76.51 | 2.14 | + | 3.81E-19 | 7.57E-17 | | [positive regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008284) | [949](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&reflist=1) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&list=upload_1&organism=Homo%20sapiens) | 43.37 | 2.17 | + | 2.90E-11 | 2.28E-09 | | [regulation of endothelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0001936) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001936&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001936&list=upload_1&organism=Homo%20sapiens) | 6.35 | 2.68 | + | 4.89E-04 | 9.17E-03 | | [regulation of vascular endothelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:1905562) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905562&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905562&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.90E-02 | | [negative regulation of extrinsic apoptotic signaling pathway via death domain receptors](http://amigo.geneontology.org/amigo/term/GO:1902042) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902042&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902042&list=upload_1&organism=Homo%20sapiens) | 1.33 | 6.04 | + | 1.61E-04 | 3.60E-03 | | [regulation of extrinsic apoptotic signaling pathway via death domain receptors](http://amigo.geneontology.org/amigo/term/GO:1902041) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902041&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902041&list=upload_1&organism=Homo%20sapiens) | 2.19 | 4.10 | + | 7.63E-04 | 1.33E-02 | | [regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001236) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&list=upload_1&organism=Homo%20sapiens) | 7.04 | 3.27 | + | 3.01E-06 | 1.04E-04 | | [regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001233) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&list=upload_1&organism=Homo%20sapiens) | 16.64 | 2.89 | + | 6.65E-10 | 4.15E-08 | | [negative regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001237) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.80 | + | 1.04E-05 | 3.19E-04 | | [negative regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001234) | [229](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&list=upload_1&organism=Homo%20sapiens) | 10.47 | 3.15 | + | 4.90E-08 | 2.36E-06 | | [negative regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043066) | [898](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&list=upload_1&organism=Homo%20sapiens) | 41.04 | 2.73 | + | 6.20E-20 | 1.41E-17 | | [negative regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043069) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&list=upload_1&organism=Homo%20sapiens) | 41.96 | 2.74 | + | 1.45E-20 | 3.67E-18 | | [negative regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0060548) | [1022](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&list=upload_1&organism=Homo%20sapiens) | 46.71 | 2.72 | + | 1.75E-22 | 5.38E-20 | | [positive regulation of transcription from RNA polymerase II promoter involved in cellular response to chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:1901522) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901522&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901522&list=upload_1&organism=Homo%20sapiens) | 1.01 | 5.97 | + | 1.13E-03 | 1.82E-02 | | [positive regulation of transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0045944) | [1259](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045944&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045944&list=upload_1&organism=Homo%20sapiens) | 57.54 | 2.29 | + | 1.42E-17 | 2.39E-15 | | [regulation of transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0006357) | [2606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006357&reflist=1) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006357&list=upload_1&organism=Homo%20sapiens) | 119.10 | 1.61 | + | 8.63E-11 | 6.26E-09 | | [chaperone-mediated protein complex assembly](http://amigo.geneontology.org/amigo/term/GO:0051131) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051131&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051131&list=upload_1&organism=Homo%20sapiens) | 1.01 | 5.97 | + | 1.13E-03 | 1.82E-02 | | [positive regulation of nitric-oxide synthase activity](http://amigo.geneontology.org/amigo/term/GO:0051000) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051000&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051000&list=upload_1&organism=Homo%20sapiens) | 1.01 | 5.97 | + | 1.13E-03 | 1.82E-02 | | [positive regulation of monooxygenase activity](http://amigo.geneontology.org/amigo/term/GO:0032770) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032770&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032770&list=upload_1&organism=Homo%20sapiens) | 1.46 | 5.47 | + | 2.86E-04 | 5.87E-03 | | [regulation of monooxygenase activity](http://amigo.geneontology.org/amigo/term/GO:0032768) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&list=upload_1&organism=Homo%20sapiens) | 2.33 | 4.72 | + | 6.90E-05 | 1.75E-03 | | [regulation of nitric-oxide synthase activity](http://amigo.geneontology.org/amigo/term/GO:0050999) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050999&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050999&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.03 | + | 3.16E-03 | 4.30E-02 | | [response to salt stress](http://amigo.geneontology.org/amigo/term/GO:0009651) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009651&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009651&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.89 | + | 4.69E-04 | 8.89E-03 | | [regulation of telomere capping](http://amigo.geneontology.org/amigo/term/GO:1904353) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904353&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904353&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.89 | + | 4.69E-04 | 8.88E-03 | | [positive regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010661) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.89 | + | 4.69E-04 | 8.87E-03 | | [regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010660) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&list=upload_1&organism=Homo%20sapiens) | 3.11 | 4.18 | + | 4.66E-05 | 1.22E-03 | | [positive regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043065) | [503](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&list=upload_1&organism=Homo%20sapiens) | 22.99 | 2.91 | + | 1.65E-13 | 1.84E-11 | | [positive regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043068) | [516](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&list=upload_1&organism=Homo%20sapiens) | 23.58 | 2.97 | + | 2.07E-14 | 2.53E-12 | | [toll-like receptor 4 signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0034142) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034142&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034142&list=upload_1&organism=Homo%20sapiens) | .87 | 5.76 | + | 3.35E-03 | 4.48E-02 | | [toll-like receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002224) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002224&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002224&list=upload_1&organism=Homo%20sapiens) | 2.70 | 3.71 | + | 7.93E-04 | 1.37E-02 | | [negative regulation of oxidative stress-induced intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:1902176) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902176&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902176&list=upload_1&organism=Homo%20sapiens) | .87 | 5.76 | + | 3.35E-03 | 4.47E-02 | | [regulation of oxidative stress-induced intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:1902175) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902175&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902175&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.88E-02 | | [regulation of intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001242) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001242&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001242&list=upload_1&organism=Homo%20sapiens) | 7.63 | 3.28 | + | 1.09E-06 | 4.11E-05 | | [regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902531) | [1721](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&reflist=1) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&list=upload_1&organism=Homo%20sapiens) | 78.66 | 2.12 | + | 3.80E-19 | 7.65E-17 | | [negative regulation of intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001243) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001243&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001243&list=upload_1&organism=Homo%20sapiens) | 4.52 | 3.32 | + | 1.33E-04 | 3.06E-03 | | [negative regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902532) | [518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&list=upload_1&organism=Homo%20sapiens) | 23.67 | 1.99 | + | 2.43E-05 | 6.94E-04 | | [negative regulation of oxidative stress-induced cell death](http://amigo.geneontology.org/amigo/term/GO:1903202) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903202&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903202&list=upload_1&organism=Homo%20sapiens) | 2.15 | 4.19 | + | 6.68E-04 | 1.19E-02 | | [branching involved in mammary gland duct morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060444) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060444&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060444&list=upload_1&organism=Homo%20sapiens) | 1.05 | 5.71 | + | 1.37E-03 | 2.15E-02 | | [mammary gland duct morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060603) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060603&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060603&list=upload_1&organism=Homo%20sapiens) | 1.51 | 5.30 | + | 3.42E-04 | 6.82E-03 | | [epithelial tube morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060562) | [318](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060562&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060562&list=upload_1&organism=Homo%20sapiens) | 14.53 | 2.06 | + | 4.62E-04 | 8.79E-03 | | [morphogenesis of an epithelium](http://amigo.geneontology.org/amigo/term/GO:0002009) | [459](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002009&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002009&list=upload_1&organism=Homo%20sapiens) | 20.98 | 2.00 | + | 5.55E-05 | 1.44E-03 | | [tissue morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048729) | [568](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048729&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048729&list=upload_1&organism=Homo%20sapiens) | 25.96 | 1.81 | + | 1.94E-04 | 4.22E-03 | | [tube morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0035239) | [673](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&list=upload_1&organism=Homo%20sapiens) | 30.76 | 1.85 | + | 2.75E-05 | 7.71E-04 | | [tube development](http://amigo.geneontology.org/amigo/term/GO:0035295) | [885](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&reflist=1) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&list=upload_1&organism=Homo%20sapiens) | 40.45 | 1.68 | + | 6.57E-05 | 1.67E-03 | | [mammary gland morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060443) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060443&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060443&list=upload_1&organism=Homo%20sapiens) | 2.19 | 5.01 | + | 4.28E-05 | 1.14E-03 | | [gland morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0022612) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022612&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022612&list=upload_1&organism=Homo%20sapiens) | 4.84 | 2.68 | + | 2.11E-03 | 3.07E-02 | | [branching morphogenesis of an epithelial tube](http://amigo.geneontology.org/amigo/term/GO:0048754) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048754&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048754&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.87 | + | 1.53E-04 | 3.44E-03 | | [morphogenesis of a branching epithelium](http://amigo.geneontology.org/amigo/term/GO:0061138) | [165](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061138&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061138&list=upload_1&organism=Homo%20sapiens) | 7.54 | 2.65 | + | 1.81E-04 | 3.99E-03 | | [morphogenesis of a branching structure](http://amigo.geneontology.org/amigo/term/GO:0001763) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001763&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001763&list=upload_1&organism=Homo%20sapiens) | 8.00 | 2.50 | + | 5.21E-04 | 9.69E-03 | | [negative regulation of ubiquitin-protein transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051444) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051444&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051444&list=upload_1&organism=Homo%20sapiens) | 1.05 | 5.71 | + | 1.37E-03 | 2.14E-02 | | [negative regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031397) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031397&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031397&list=upload_1&organism=Homo%20sapiens) | 3.79 | 5.01 | + | 7.99E-08 | 3.73E-06 | | [negative regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903321) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903321&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903321&list=upload_1&organism=Homo%20sapiens) | 4.34 | 4.84 | + | 2.82E-08 | 1.42E-06 | | [negative regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031400) | [503](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&list=upload_1&organism=Homo%20sapiens) | 22.99 | 2.35 | + | 4.38E-08 | 2.15E-06 | | [regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031399) | [1563](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&reflist=1) | [165](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&list=upload_1&organism=Homo%20sapiens) | 71.44 | 2.31 | + | 3.05E-22 | 9.19E-20 | | [regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903320) | [253](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903320&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903320&list=upload_1&organism=Homo%20sapiens) | 11.56 | 3.89 | + | 3.41E-13 | 3.47E-11 | | [regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031396) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&list=upload_1&organism=Homo%20sapiens) | 9.64 | 3.63 | + | 7.62E-10 | 4.72E-08 | | [regulation of ubiquitin-protein transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051438) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&list=upload_1&organism=Homo%20sapiens) | 2.61 | 3.84 | + | 6.26E-04 | 1.14E-02 | | [I-kappaB kinase/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0007249) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007249&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007249&list=upload_1&organism=Homo%20sapiens) | 3.06 | 5.55 | + | 1.08E-07 | 4.93E-06 | | [regulation of megakaryocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0045652) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045652&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045652&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.47 | + | 1.65E-03 | 2.51E-02 | | [regulation of myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045637) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045637&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045637&list=upload_1&organism=Homo%20sapiens) | 9.14 | 3.06 | + | 8.40E-07 | 3.25E-05 | | [cellular response to dexamethasone stimulus](http://amigo.geneontology.org/amigo/term/GO:0071549) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071549&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071549&list=upload_1&organism=Homo%20sapiens) | 1.28 | 5.47 | + | 6.85E-04 | 1.22E-02 | | [response to dexamethasone](http://amigo.geneontology.org/amigo/term/GO:0071548) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071548&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071548&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.97 | + | 1.01E-04 | 2.42E-03 | | [response to glucocorticoid](http://amigo.geneontology.org/amigo/term/GO:0051384) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051384&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051384&list=upload_1&organism=Homo%20sapiens) | 6.54 | 3.06 | + | 3.05E-05 | 8.48E-04 | | [response to corticosteroid](http://amigo.geneontology.org/amigo/term/GO:0031960) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031960&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031960&list=upload_1&organism=Homo%20sapiens) | 7.59 | 2.90 | + | 2.63E-05 | 7.44E-04 | | [cellular response to glucocorticoid stimulus](http://amigo.geneontology.org/amigo/term/GO:0071385) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071385&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071385&list=upload_1&organism=Homo%20sapiens) | 2.56 | 5.47 | + | 1.66E-06 | 5.99E-05 | | [cellular response to corticosteroid stimulus](http://amigo.geneontology.org/amigo/term/GO:0071384) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071384&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071384&list=upload_1&organism=Homo%20sapiens) | 2.97 | 5.05 | + | 1.68E-06 | 6.07E-05 | | [synaptic transmission, GABAergic](http://amigo.geneontology.org/amigo/term/GO:0051932) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051932&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051932&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.47 | + | 1.65E-03 | 2.51E-02 | | [chemical synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0007268) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&list=upload_1&organism=Homo%20sapiens) | 18.92 | 1.74 | + | 3.25E-03 | 4.37E-02 | | [anterograde trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0098916) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&list=upload_1&organism=Homo%20sapiens) | 18.92 | 1.74 | + | 3.25E-03 | 4.36E-02 | | [trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099537) | [431](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&list=upload_1&organism=Homo%20sapiens) | 19.70 | 1.73 | + | 3.79E-03 | 4.90E-02 | | [synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099536) | [461](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&list=upload_1&organism=Homo%20sapiens) | 21.07 | 1.76 | + | 1.73E-03 | 2.62E-02 | | [cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:0007267) | [1083](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&list=upload_1&organism=Homo%20sapiens) | 49.50 | 1.60 | + | 8.69E-05 | 2.13E-03 | | [lung epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0060487) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060487&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060487&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.91E-02 | | [lung cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0060479) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060479&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060479&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.91E-02 | | [lung development](http://amigo.geneontology.org/amigo/term/GO:0030324) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030324&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030324&list=upload_1&organism=Homo%20sapiens) | 8.32 | 2.28 | + | 1.47E-03 | 2.28E-02 | | [respiratory tube development](http://amigo.geneontology.org/amigo/term/GO:0030323) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030323&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030323&list=upload_1&organism=Homo%20sapiens) | 8.50 | 2.24 | + | 2.75E-03 | 3.83E-02 | | [lung epithelium development](http://amigo.geneontology.org/amigo/term/GO:0060428) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060428&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060428&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.14 | + | 2.77E-03 | 3.84E-02 | | [myeloid dendritic cell activation](http://amigo.geneontology.org/amigo/term/GO:0001773) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001773&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001773&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.91E-02 | | [myeloid leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002274) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002274&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002274&list=upload_1&organism=Homo%20sapiens) | 6.76 | 2.81 | + | 1.33E-04 | 3.06E-03 | | [leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0045321) | [581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045321&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045321&list=upload_1&organism=Homo%20sapiens) | 26.55 | 2.45 | + | 4.41E-10 | 2.86E-08 | | [cell activation](http://amigo.geneontology.org/amigo/term/GO:0001775) | [700](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&list=upload_1&organism=Homo%20sapiens) | 31.99 | 2.47 | + | 2.96E-12 | 2.75E-10 | | [immune system process](http://amigo.geneontology.org/amigo/term/GO:0002376) | [2429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&reflist=1) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&list=upload_1&organism=Homo%20sapiens) | 111.02 | 1.72 | + | 4.03E-13 | 4.07E-11 | | [regulation of protein sumoylation](http://amigo.geneontology.org/amigo/term/GO:0033233) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033233&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033233&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.91E-02 | | [protein refolding](http://amigo.geneontology.org/amigo/term/GO:0042026) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042026&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042026&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.25 | + | 1.98E-03 | 2.90E-02 | | [protein folding](http://amigo.geneontology.org/amigo/term/GO:0006457) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&list=upload_1&organism=Homo%20sapiens) | 10.10 | 2.28 | + | 6.78E-04 | 1.21E-02 | | [base-excision repair](http://amigo.geneontology.org/amigo/term/GO:0006284) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006284&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006284&list=upload_1&organism=Homo%20sapiens) | 1.92 | 5.21 | + | 7.21E-05 | 1.81E-03 | | [positive regulation of protein import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0042307) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042307&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042307&list=upload_1&organism=Homo%20sapiens) | 1.92 | 5.21 | + | 7.21E-05 | 1.81E-03 | | [regulation of protein import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0042306) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042306&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042306&list=upload_1&organism=Homo%20sapiens) | 2.83 | 3.88 | + | 3.12E-04 | 6.31E-03 | | [regulation of protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:1900180) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900180&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900180&list=upload_1&organism=Homo%20sapiens) | 6.44 | 2.79 | + | 2.11E-04 | 4.52E-03 | | [positive regulation of protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:1900182) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900182&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900182&list=upload_1&organism=Homo%20sapiens) | 4.07 | 3.69 | + | 4.56E-05 | 1.20E-03 | | [cellular response to cadmium ion](http://amigo.geneontology.org/amigo/term/GO:0071276) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071276&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071276&list=upload_1&organism=Homo%20sapiens) | 1.74 | 5.18 | + | 1.71E-04 | 3.80E-03 | | [response to cadmium ion](http://amigo.geneontology.org/amigo/term/GO:0046686) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&list=upload_1&organism=Homo%20sapiens) | 2.79 | 4.66 | + | 1.72E-05 | 5.06E-04 | | [response to metal ion](http://amigo.geneontology.org/amigo/term/GO:0010038) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&list=upload_1&organism=Homo%20sapiens) | 16.59 | 2.17 | + | 5.36E-05 | 1.39E-03 | | [response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0010035) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&list=upload_1&organism=Homo%20sapiens) | 24.36 | 2.46 | + | 2.26E-09 | 1.30E-07 | | [cellular response to metal ion](http://amigo.geneontology.org/amigo/term/GO:0071248) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&list=upload_1&organism=Homo%20sapiens) | 9.14 | 2.19 | + | 2.22E-03 | 3.20E-02 | | [cellular response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0071241) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&list=upload_1&organism=Homo%20sapiens) | 10.51 | 2.28 | + | 4.82E-04 | 9.08E-03 | | [liver regeneration](http://amigo.geneontology.org/amigo/term/GO:0097421) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097421&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097421&list=upload_1&organism=Homo%20sapiens) | 1.37 | 5.11 | + | 9.72E-04 | 1.59E-02 | | [liver development](http://amigo.geneontology.org/amigo/term/GO:0001889) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001889&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001889&list=upload_1&organism=Homo%20sapiens) | 5.99 | 3.51 | + | 3.00E-06 | 1.05E-04 | | [hepaticobiliary system development](http://amigo.geneontology.org/amigo/term/GO:0061008) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061008&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061008&list=upload_1&organism=Homo%20sapiens) | 6.12 | 3.43 | + | 4.12E-06 | 1.40E-04 | | [animal organ regeneration](http://amigo.geneontology.org/amigo/term/GO:0031100) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031100&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031100&list=upload_1&organism=Homo%20sapiens) | 3.06 | 3.59 | + | 5.59E-04 | 1.03E-02 | | [regeneration](http://amigo.geneontology.org/amigo/term/GO:0031099) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031099&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031099&list=upload_1&organism=Homo%20sapiens) | 7.04 | 2.70 | + | 2.12E-04 | 4.53E-03 | | [muscle cell cellular homeostasis](http://amigo.geneontology.org/amigo/term/GO:0046716) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046716&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046716&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.05 | + | 2.34E-03 | 3.34E-02 | | [cellular homeostasis](http://amigo.geneontology.org/amigo/term/GO:0019725) | [641](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019725&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019725&list=upload_1&organism=Homo%20sapiens) | 29.30 | 1.88 | + | 2.69E-05 | 7.58E-04 | | [homeostatic process](http://amigo.geneontology.org/amigo/term/GO:0042592) | [1424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&list=upload_1&organism=Homo%20sapiens) | 65.08 | 1.77 | + | 1.32E-08 | 6.94E-07 | | [anatomical structure homeostasis](http://amigo.geneontology.org/amigo/term/GO:0060249) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060249&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060249&list=upload_1&organism=Homo%20sapiens) | 13.85 | 2.17 | + | 1.97E-04 | 4.27E-03 | | [regulation of miRNA maturation](http://amigo.geneontology.org/amigo/term/GO:1903798) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903798&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903798&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.05 | + | 2.34E-03 | 3.34E-02 | | [regulation of production of small RNA involved in gene silencing by RNA](http://amigo.geneontology.org/amigo/term/GO:0070920) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070920&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070920&list=upload_1&organism=Homo%20sapiens) | 1.23 | 4.86 | + | 2.76E-03 | 3.83E-02 | | [lipopolysaccharide-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0031663) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031663&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031663&list=upload_1&organism=Homo%20sapiens) | 1.78 | 5.05 | + | 2.02E-04 | 4.35E-03 | | [cellular response to lipopolysaccharide](http://amigo.geneontology.org/amigo/term/GO:0071222) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071222&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071222&list=upload_1&organism=Homo%20sapiens) | 8.87 | 2.59 | + | 8.31E-05 | 2.06E-03 | | [response to lipopolysaccharide](http://amigo.geneontology.org/amigo/term/GO:0032496) | [313](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&list=upload_1&organism=Homo%20sapiens) | 14.31 | 2.38 | + | 1.31E-05 | 3.97E-04 | | [response to molecule of bacterial origin](http://amigo.geneontology.org/amigo/term/GO:0002237) | [331](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002237&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002237&list=upload_1&organism=Homo%20sapiens) | 15.13 | 2.25 | + | 4.13E-05 | 1.10E-03 | | [response to external biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0043207) | [1432](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043207&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043207&list=upload_1&organism=Homo%20sapiens) | 65.45 | 2.02 | + | 1.68E-13 | 1.85E-11 | | [response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009607) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&reflist=1) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&list=upload_1&organism=Homo%20sapiens) | 67.55 | 2.03 | + | 3.33E-14 | 4.05E-12 | | [response to bacterium](http://amigo.geneontology.org/amigo/term/GO:0009617) | [754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&list=upload_1&organism=Homo%20sapiens) | 34.46 | 1.86 | + | 6.92E-06 | 2.24E-04 | | [response to other organism](http://amigo.geneontology.org/amigo/term/GO:0051707) | [1429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&reflist=1) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&list=upload_1&organism=Homo%20sapiens) | 65.31 | 2.01 | + | 2.76E-13 | 2.90E-11 | | [cellular response to molecule of bacterial origin](http://amigo.geneontology.org/amigo/term/GO:0071219) | [204](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071219&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071219&list=upload_1&organism=Homo%20sapiens) | 9.32 | 2.47 | + | 2.01E-04 | 4.34E-03 | | [cellular response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0071216) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071216&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071216&list=upload_1&organism=Homo%20sapiens) | 10.56 | 2.56 | + | 3.53E-05 | 9.65E-04 | | [negative regulation of blood vessel endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0043537) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043537&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043537&list=upload_1&organism=Homo%20sapiens) | 1.60 | 5.00 | + | 4.80E-04 | 9.06E-03 | | [regulation of blood vessel endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0043535) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&list=upload_1&organism=Homo%20sapiens) | 4.16 | 3.85 | + | 1.62E-05 | 4.78E-04 | | [regulation of epithelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010632) | [229](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010632&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010632&list=upload_1&organism=Homo%20sapiens) | 10.47 | 2.39 | + | 1.49E-04 | 3.37E-03 | | [regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030334) | [929](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&list=upload_1&organism=Homo%20sapiens) | 42.46 | 1.79 | + | 3.67E-06 | 1.25E-04 | | [regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000145) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&list=upload_1&organism=Homo%20sapiens) | 45.20 | 1.73 | + | 1.01E-05 | 3.11E-04 | | [regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040012) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&list=upload_1&organism=Homo%20sapiens) | 47.26 | 1.76 | + | 2.56E-06 | 8.96E-05 | | [negative regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051241) | [1039](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&list=upload_1&organism=Homo%20sapiens) | 47.49 | 1.71 | + | 8.13E-06 | 2.57E-04 | | [tumor necrosis factor-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0033209) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033209&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033209&list=upload_1&organism=Homo%20sapiens) | 2.61 | 4.99 | + | 9.18E-06 | 2.86E-04 | | [cellular response to tumor necrosis factor](http://amigo.geneontology.org/amigo/term/GO:0071356) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071356&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071356&list=upload_1&organism=Homo%20sapiens) | 8.14 | 4.18 | + | 5.03E-11 | 3.83E-09 | | [response to tumor necrosis factor](http://amigo.geneontology.org/amigo/term/GO:0034612) | [202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034612&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034612&list=upload_1&organism=Homo%20sapiens) | 9.23 | 3.90 | + | 7.58E-11 | 5.53E-09 | | [cytokine-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0019221) | [366](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019221&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019221&list=upload_1&organism=Homo%20sapiens) | 16.73 | 2.51 | + | 2.72E-07 | 1.17E-05 | | [translational elongation](http://amigo.geneontology.org/amigo/term/GO:0006414) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006414&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006414&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.97 | + | 1.01E-04 | 2.41E-03 | | [response to electrical stimulus](http://amigo.geneontology.org/amigo/term/GO:0051602) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051602&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051602&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.97 | + | 1.01E-04 | 2.40E-03 | | [positive regulation of NIK/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:1901224) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901224&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901224&list=upload_1&organism=Homo%20sapiens) | 3.06 | 4.90 | + | 2.33E-06 | 8.23E-05 | | [positive regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902533) | [999](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&reflist=1) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&list=upload_1&organism=Homo%20sapiens) | 45.66 | 2.34 | + | 9.26E-15 | 1.17E-12 | | [positive regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009967) | [1528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&reflist=1) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&list=upload_1&organism=Homo%20sapiens) | 69.84 | 2.16 | + | 6.51E-18 | 1.13E-15 | | [positive regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023056) | [1701](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&reflist=1) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&list=upload_1&organism=Homo%20sapiens) | 77.74 | 2.15 | + | 1.34E-19 | 2.87E-17 | | [positive regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010647) | [1696](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&reflist=1) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&list=upload_1&organism=Homo%20sapiens) | 77.51 | 2.15 | + | 1.10E-19 | 2.41E-17 | | [regulation of NIK/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:1901222) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901222&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901222&list=upload_1&organism=Homo%20sapiens) | 4.57 | 4.16 | + | 9.71E-07 | 3.70E-05 | | [cellular response to heat](http://amigo.geneontology.org/amigo/term/GO:0034605) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034605&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034605&list=upload_1&organism=Homo%20sapiens) | 2.47 | 4.86 | + | 2.52E-05 | 7.15E-04 | | [response to heat](http://amigo.geneontology.org/amigo/term/GO:0009408) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&list=upload_1&organism=Homo%20sapiens) | 4.71 | 3.82 | + | 5.25E-06 | 1.75E-04 | | [response to temperature stimulus](http://amigo.geneontology.org/amigo/term/GO:0009266) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&list=upload_1&organism=Homo%20sapiens) | 8.14 | 3.07 | + | 3.05E-06 | 1.06E-04 | | [regulation of transcription from RNA polymerase II promoter in response to stress](http://amigo.geneontology.org/amigo/term/GO:0043618) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043618&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043618&list=upload_1&organism=Homo%20sapiens) | 1.87 | 4.80 | + | 2.79E-04 | 5.75E-03 | | [regulation of DNA-templated transcription in response to stress](http://amigo.geneontology.org/amigo/term/GO:0043620) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043620&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043620&list=upload_1&organism=Homo%20sapiens) | 2.15 | 4.66 | + | 1.62E-04 | 3.60E-03 | | [positive regulation of peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0033138) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033138&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033138&list=upload_1&organism=Homo%20sapiens) | 5.03 | 4.77 | + | 3.66E-09 | 2.03E-07 | | [positive regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001934) | [748](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&list=upload_1&organism=Homo%20sapiens) | 34.19 | 2.25 | + | 3.17E-10 | 2.11E-08 | | [regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001932) | [1105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&reflist=1) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&list=upload_1&organism=Homo%20sapiens) | 50.50 | 2.18 | + | 2.91E-13 | 3.00E-11 | | [regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042325) | [1248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&reflist=1) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&list=upload_1&organism=Homo%20sapiens) | 57.04 | 2.24 | + | 3.45E-16 | 4.91E-14 | | [regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019220) | [1404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&list=upload_1&organism=Homo%20sapiens) | 64.17 | 2.20 | + | 3.05E-17 | 4.93E-15 | | [regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051174) | [1405](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&list=upload_1&organism=Homo%20sapiens) | 64.21 | 2.20 | + | 3.17E-17 | 5.07E-15 | | [positive regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042327) | [826](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&reflist=1) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&list=upload_1&organism=Homo%20sapiens) | 37.75 | 2.28 | + | 2.22E-11 | 1.76E-09 | | [positive regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045937) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&list=upload_1&organism=Homo%20sapiens) | 41.64 | 2.23 | + | 6.58E-12 | 5.70E-10 | | [positive regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010562) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&list=upload_1&organism=Homo%20sapiens) | 41.64 | 2.23 | + | 6.58E-12 | 5.73E-10 | | [positive regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031401) | [1019](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&list=upload_1&organism=Homo%20sapiens) | 46.57 | 2.28 | + | 5.84E-14 | 6.94E-12 | | [positive regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051247) | [1515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&reflist=1) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&list=upload_1&organism=Homo%20sapiens) | 69.24 | 2.27 | + | 2.15E-20 | 5.26E-18 | | [regulation of peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0033135) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033135&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033135&list=upload_1&organism=Homo%20sapiens) | 6.54 | 3.98 | + | 2.26E-08 | 1.16E-06 | | [ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070371) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&list=upload_1&organism=Homo%20sapiens) | 2.51 | 4.77 | + | 2.95E-05 | 8.25E-04 | | [MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0000165) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&list=upload_1&organism=Homo%20sapiens) | 10.05 | 3.58 | + | 6.05E-10 | 3.83E-08 | | [cellular senescence](http://amigo.geneontology.org/amigo/term/GO:0090398) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&list=upload_1&organism=Homo%20sapiens) | 2.74 | 4.74 | + | 1.48E-05 | 4.40E-04 | | [negative regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032435) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032435&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032435&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.73 | + | 6.61E-04 | 1.19E-02 | | [negative regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901799) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901799&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901799&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.47 | + | 2.17E-04 | 4.63E-03 | | [negative regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0042177) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042177&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042177&list=upload_1&organism=Homo%20sapiens) | 5.03 | 3.58 | + | 1.17E-05 | 3.57E-04 | | [regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0042176) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&list=upload_1&organism=Homo%20sapiens) | 16.77 | 2.68 | + | 2.53E-08 | 1.28E-06 | | [negative regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009895) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&list=upload_1&organism=Homo%20sapiens) | 14.90 | 2.75 | + | 3.89E-08 | 1.92E-06 | | [regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0061136) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&list=upload_1&organism=Homo%20sapiens) | 8.87 | 3.05 | + | 1.45E-06 | 5.33E-05 | | [regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903050) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&list=upload_1&organism=Homo%20sapiens) | 10.42 | 2.97 | + | 3.91E-07 | 1.63E-05 | | [regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0030162) | [743](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&list=upload_1&organism=Homo%20sapiens) | 33.96 | 2.27 | + | 2.58E-10 | 1.76E-08 | | [negative regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903051) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903051&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903051&list=upload_1&organism=Homo%20sapiens) | 2.97 | 4.04 | + | 1.21E-04 | 2.83E-03 | | [negative regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045861) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&list=upload_1&organism=Homo%20sapiens) | 15.77 | 2.35 | + | 6.19E-06 | 2.04E-04 | | [regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032434) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&list=upload_1&organism=Homo%20sapiens) | 6.49 | 3.54 | + | 8.78E-07 | 3.39E-05 | | [regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000058) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&list=upload_1&organism=Homo%20sapiens) | 7.86 | 3.43 | + | 1.77E-07 | 7.83E-06 | | [negative regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000059) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000059&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000059&list=upload_1&organism=Homo%20sapiens) | 2.33 | 4.29 | + | 2.88E-04 | 5.88E-03 | | [negative regulation of cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0031330) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031330&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031330&list=upload_1&organism=Homo%20sapiens) | 11.06 | 2.53 | + | 2.73E-05 | 7.68E-04 | | [intrinsic apoptotic signaling pathway in response to DNA damage](http://amigo.geneontology.org/amigo/term/GO:0008630) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008630&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008630&list=upload_1&organism=Homo%20sapiens) | 3.38 | 4.73 | + | 1.61E-06 | 5.81E-05 | | [intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097193) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&list=upload_1&organism=Homo%20sapiens) | 7.45 | 3.09 | + | 6.99E-06 | 2.25E-04 | | [type I interferon signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0060337) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060337&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060337&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.69 | + | 3.26E-04 | 6.56E-03 | | [cellular response to type I interferon](http://amigo.geneontology.org/amigo/term/GO:0071357) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071357&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071357&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.97 | + | 1.01E-04 | 2.41E-03 | | [response to type I interferon](http://amigo.geneontology.org/amigo/term/GO:0034340) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034340&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034340&list=upload_1&organism=Homo%20sapiens) | 2.38 | 5.05 | + | 1.82E-05 | 5.35E-04 | | [innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045087) | [832](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&reflist=1) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&list=upload_1&organism=Homo%20sapiens) | 38.03 | 1.95 | + | 2.84E-07 | 1.22E-05 | | [defense response to other organism](http://amigo.geneontology.org/amigo/term/GO:0098542) | [1068](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098542&reflist=1) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098542&list=upload_1&organism=Homo%20sapiens) | 48.81 | 1.93 | + | 8.64E-09 | 4.64E-07 | | [defense response](http://amigo.geneontology.org/amigo/term/GO:0006952) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&list=upload_1&organism=Homo%20sapiens) | 67.55 | 1.84 | + | 3.18E-10 | 2.10E-08 | | [immune response](http://amigo.geneontology.org/amigo/term/GO:0006955) | [1621](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006955&reflist=1) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006955&list=upload_1&organism=Homo%20sapiens) | 74.09 | 1.58 | + | 2.22E-06 | 7.85E-05 | | [positive regulation of natural killer cell activation](http://amigo.geneontology.org/amigo/term/GO:0032816) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032816&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032816&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 3.23E-03 | 4.35E-02 | | [thyroid gland development](http://amigo.geneontology.org/amigo/term/GO:0030878) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030878&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030878&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 3.23E-03 | 4.35E-02 | | [endocrine system development](http://amigo.geneontology.org/amigo/term/GO:0035270) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035270&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035270&list=upload_1&organism=Homo%20sapiens) | 5.94 | 2.86 | + | 2.42E-04 | 5.07E-03 | | [negative regulation of cardiac muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0010614) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010614&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010614&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 3.23E-03 | 4.34E-02 | | [regulation of system process](http://amigo.geneontology.org/amigo/term/GO:0044057) | [568](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044057&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044057&list=upload_1&organism=Homo%20sapiens) | 25.96 | 1.85 | + | 1.21E-04 | 2.83E-03 | | [negative regulation of lipid localization](http://amigo.geneontology.org/amigo/term/GO:1905953) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905953&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905953&list=upload_1&organism=Homo%20sapiens) | 2.15 | 4.66 | + | 1.62E-04 | 3.61E-03 | | [digestive tract morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048546) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048546&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048546&list=upload_1&organism=Homo%20sapiens) | 2.19 | 4.56 | + | 1.88E-04 | 4.11E-03 | | [digestive tract development](http://amigo.geneontology.org/amigo/term/GO:0048565) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048565&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048565&list=upload_1&organism=Homo%20sapiens) | 6.03 | 2.65 | + | 7.72E-04 | 1.34E-02 | | [digestive system development](http://amigo.geneontology.org/amigo/term/GO:0055123) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055123&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055123&list=upload_1&organism=Homo%20sapiens) | 6.54 | 2.45 | + | 2.45E-03 | 3.48E-02 | | [Fc-gamma receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038094) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038094&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038094&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.88E-02 | | [cellular response to gamma radiation](http://amigo.geneontology.org/amigo/term/GO:0071480) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071480&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071480&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.88E-02 | | [response to ionizing radiation](http://amigo.geneontology.org/amigo/term/GO:0010212) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&list=upload_1&organism=Homo%20sapiens) | 6.58 | 2.89 | + | 9.63E-05 | 2.33E-03 | | [response to radiation](http://amigo.geneontology.org/amigo/term/GO:0009314) | [449](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&list=upload_1&organism=Homo%20sapiens) | 20.52 | 2.53 | + | 1.10E-08 | 5.85E-07 | | [cellular response to ionizing radiation](http://amigo.geneontology.org/amigo/term/GO:0071479) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071479&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071479&list=upload_1&organism=Homo%20sapiens) | 3.43 | 4.38 | + | 7.73E-06 | 2.45E-04 | | [cellular response to radiation](http://amigo.geneontology.org/amigo/term/GO:0071478) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&list=upload_1&organism=Homo%20sapiens) | 8.32 | 3.73 | + | 4.07E-09 | 2.24E-07 | | [cellular response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0071214) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&list=upload_1&organism=Homo%20sapiens) | 14.90 | 3.42 | + | 7.21E-13 | 7.07E-11 | | [cellular response to environmental stimulus](http://amigo.geneontology.org/amigo/term/GO:0104004) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&list=upload_1&organism=Homo%20sapiens) | 14.90 | 3.42 | + | 7.21E-13 | 7.03E-11 | | [negative regulation of stress fiber assembly](http://amigo.geneontology.org/amigo/term/GO:0051497) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051497&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051497&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.87E-02 | | [regulation of stress fiber assembly](http://amigo.geneontology.org/amigo/term/GO:0051492) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051492&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051492&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.09 | + | 6.61E-04 | 1.19E-02 | | [regulation of actin filament bundle assembly](http://amigo.geneontology.org/amigo/term/GO:0032231) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032231&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032231&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.71 | + | 1.96E-03 | 2.90E-02 | | [regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044087) | [951](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&reflist=1) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&list=upload_1&organism=Homo%20sapiens) | 43.46 | 2.02 | + | 3.12E-09 | 1.75E-07 | | [regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051493) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&list=upload_1&organism=Homo%20sapiens) | 24.68 | 1.86 | + | 1.28E-04 | 2.98E-03 | | [regulation of supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:1902903) | [383](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902903&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902903&list=upload_1&organism=Homo%20sapiens) | 17.50 | 2.00 | + | 2.41E-04 | 5.05E-03 | | [regulation of actomyosin structure organization](http://amigo.geneontology.org/amigo/term/GO:0110020) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0110020&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0110020&list=upload_1&organism=Homo%20sapiens) | 4.62 | 2.82 | + | 1.43E-03 | 2.22E-02 | | [negative regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051494) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051494&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051494&list=upload_1&organism=Homo%20sapiens) | 7.22 | 2.35 | + | 2.16E-03 | 3.12E-02 | | [negative regulation of supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:1902904) | [162](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902904&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902904&list=upload_1&organism=Homo%20sapiens) | 7.40 | 2.43 | + | 1.25E-03 | 1.99E-02 | | [response to gonadotropin](http://amigo.geneontology.org/amigo/term/GO:0034698) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034698&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034698&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.87E-02 | | [positive regulation of alpha-beta T cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0046641) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046641&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046641&list=upload_1&organism=Homo%20sapiens) | 1.33 | 4.53 | + | 3.76E-03 | 4.86E-02 | | [regulation of T cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0042129) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042129&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042129&list=upload_1&organism=Homo%20sapiens) | 8.50 | 2.24 | + | 2.75E-03 | 3.82E-02 | | [regulation of lymphocyte proliferation](http://amigo.geneontology.org/amigo/term/GO:0050670) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050670&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050670&list=upload_1&organism=Homo%20sapiens) | 11.06 | 2.08 | + | 2.02E-03 | 2.96E-02 | | [regulation of mononuclear cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0032944) | [246](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032944&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032944&list=upload_1&organism=Homo%20sapiens) | 11.24 | 2.13 | + | 1.31E-03 | 2.06E-02 | | [regulation of leukocyte proliferation](http://amigo.geneontology.org/amigo/term/GO:0070663) | [271](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070663&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070663&list=upload_1&organism=Homo%20sapiens) | 12.39 | 2.02 | + | 2.21E-03 | 3.20E-02 | | [postreplication repair](http://amigo.geneontology.org/amigo/term/GO:0006301) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006301&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006301&list=upload_1&organism=Homo%20sapiens) | 1.55 | 4.50 | + | 1.82E-03 | 2.72E-02 | | [positive regulation of telomere maintenance via telomerase](http://amigo.geneontology.org/amigo/term/GO:0032212) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032212&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032212&list=upload_1&organism=Homo%20sapiens) | 1.55 | 4.50 | + | 1.82E-03 | 2.72E-02 | | [positive regulation of telomere maintenance via telomere lengthening](http://amigo.geneontology.org/amigo/term/GO:1904358) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904358&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904358&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.14 | + | 2.77E-03 | 3.84E-02 | | [positive regulation of telomere maintenance](http://amigo.geneontology.org/amigo/term/GO:0032206) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032206&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032206&list=upload_1&organism=Homo%20sapiens) | 3.02 | 3.98 | + | 1.38E-04 | 3.14E-03 | | [positive regulation of chromosome organization](http://amigo.geneontology.org/amigo/term/GO:2001252) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001252&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001252&list=upload_1&organism=Homo%20sapiens) | 4.84 | 2.89 | + | 7.62E-04 | 1.33E-02 | | [positive regulation of G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:1900087) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900087&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900087&list=upload_1&organism=Homo%20sapiens) | 2.01 | 4.48 | + | 4.39E-04 | 8.45E-03 | | [regulation of G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:2000045) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000045&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000045&list=upload_1&organism=Homo%20sapiens) | 7.50 | 3.34 | + | 8.11E-07 | 3.16E-05 | | [regulation of cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:1902806) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902806&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902806&list=upload_1&organism=Homo%20sapiens) | 8.78 | 3.19 | + | 4.04E-07 | 1.67E-05 | | [regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901987) | [431](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901987&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901987&list=upload_1&organism=Homo%20sapiens) | 19.70 | 2.64 | + | 2.46E-09 | 1.40E-07 | | [regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901990) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901990&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901990&list=upload_1&organism=Homo%20sapiens) | 15.17 | 2.97 | + | 1.06E-09 | 6.44E-08 | | [regulation of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007346) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&list=upload_1&organism=Homo%20sapiens) | 22.53 | 2.75 | + | 1.24E-11 | 1.04E-09 | | [positive regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901992) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901992&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901992&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.81 | + | 1.83E-05 | 5.35E-04 | | [positive regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901989) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901989&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901989&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.81 | + | 1.71E-06 | 6.15E-05 | | [positive regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0090068) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090068&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090068&list=upload_1&organism=Homo%20sapiens) | 11.47 | 2.88 | + | 3.32E-07 | 1.41E-05 | | [positive regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045787) | [353](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045787&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045787&list=upload_1&organism=Homo%20sapiens) | 16.13 | 2.29 | + | 1.31E-05 | 3.97E-04 | | [positive regulation of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045931) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045931&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045931&list=upload_1&organism=Homo%20sapiens) | 5.53 | 3.07 | + | 1.12E-04 | 2.64E-03 | | [positive regulation of cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:1902808) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902808&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902808&list=upload_1&organism=Homo%20sapiens) | 2.65 | 4.53 | + | 4.64E-05 | 1.22E-03 | | [epidermal growth factor receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007173) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007173&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007173&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.47 | + | 2.17E-04 | 4.63E-03 | | [thymus development](http://amigo.geneontology.org/amigo/term/GO:0048538) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048538&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048538&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.47 | + | 2.17E-04 | 4.62E-03 | | [hematopoietic or lymphoid organ development](http://amigo.geneontology.org/amigo/term/GO:0048534) | [710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048534&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048534&list=upload_1&organism=Homo%20sapiens) | 32.45 | 2.34 | + | 9.56E-11 | 6.85E-09 | | [immune system development](http://amigo.geneontology.org/amigo/term/GO:0002520) | [757](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&list=upload_1&organism=Homo%20sapiens) | 34.60 | 2.34 | + | 1.92E-11 | 1.56E-09 | | [positive regulation of DNA replication](http://amigo.geneontology.org/amigo/term/GO:0045740) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045740&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045740&list=upload_1&organism=Homo%20sapiens) | 1.83 | 4.38 | + | 1.03E-03 | 1.67E-02 | | [regulation of DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006275) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006275&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006275&list=upload_1&organism=Homo%20sapiens) | 6.22 | 2.41 | + | 3.73E-03 | 4.86E-02 | | [cellular response to mechanical stimulus](http://amigo.geneontology.org/amigo/term/GO:0071260) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071260&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071260&list=upload_1&organism=Homo%20sapiens) | 3.47 | 4.32 | + | 8.88E-06 | 2.78E-04 | | [cellular response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0071496) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071496&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071496&list=upload_1&organism=Homo%20sapiens) | 14.85 | 2.89 | + | 4.75E-09 | 2.60E-07 | | [cellular response to hydrogen peroxide](http://amigo.geneontology.org/amigo/term/GO:0070301) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070301&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070301&list=upload_1&organism=Homo%20sapiens) | 3.02 | 4.31 | + | 3.55E-05 | 9.69E-04 | | [cellular response to reactive oxygen species](http://amigo.geneontology.org/amigo/term/GO:0034614) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034614&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034614&list=upload_1&organism=Homo%20sapiens) | 5.35 | 4.68 | + | 2.51E-09 | 1.42E-07 | | [response to reactive oxygen species](http://amigo.geneontology.org/amigo/term/GO:0000302) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&list=upload_1&organism=Homo%20sapiens) | 7.63 | 3.93 | + | 2.44E-09 | 1.40E-07 | | [response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0006979) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&list=upload_1&organism=Homo%20sapiens) | 16.77 | 2.92 | + | 3.02E-10 | 2.02E-08 | | [cellular response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0034599) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&list=upload_1&organism=Homo%20sapiens) | 10.15 | 3.45 | + | 2.49E-09 | 1.41E-07 | | [cellular response to chemical stress](http://amigo.geneontology.org/amigo/term/GO:0062197) | [273](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&list=upload_1&organism=Homo%20sapiens) | 12.48 | 3.29 | + | 3.96E-10 | 2.59E-08 | | [response to hydrogen peroxide](http://amigo.geneontology.org/amigo/term/GO:0042542) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042542&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042542&list=upload_1&organism=Homo%20sapiens) | 4.71 | 3.40 | + | 6.16E-05 | 1.58E-03 | | [fibroblast proliferation](http://amigo.geneontology.org/amigo/term/GO:0048144) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048144&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048144&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.25 | + | 2.42E-03 | 3.44E-02 | | [cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008283) | [718](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&reflist=1) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&list=upload_1&organism=Homo%20sapiens) | 32.82 | 2.26 | + | 7.50E-10 | 4.67E-08 | | [nuclear-transcribed mRNA catabolic process, nonsense-mediated decay](http://amigo.geneontology.org/amigo/term/GO:0000184) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000184&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000184&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.25 | + | 2.42E-03 | 3.44E-02 | | [nuclear-transcribed mRNA catabolic process](http://amigo.geneontology.org/amigo/term/GO:0000956) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000956&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000956&list=upload_1&organism=Homo%20sapiens) | 4.66 | 2.79 | + | 1.55E-03 | 2.37E-02 | | [RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0016070) | [1635](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016070&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016070&list=upload_1&organism=Homo%20sapiens) | 74.73 | 1.70 | + | 1.71E-08 | 8.89E-07 | | [cellular macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044265) | [785](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&reflist=1) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&list=upload_1&organism=Homo%20sapiens) | 35.88 | 2.34 | + | 7.47E-12 | 6.43E-10 | | [nucleobase-containing compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:0034655) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034655&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034655&list=upload_1&organism=Homo%20sapiens) | 12.98 | 1.93 | + | 2.95E-03 | 4.04E-02 | | [cellular nitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044270) | [330](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044270&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044270&list=upload_1&organism=Homo%20sapiens) | 15.08 | 1.86 | + | 3.65E-03 | 4.76E-02 | | [mRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0016071) | [607](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016071&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016071&list=upload_1&organism=Homo%20sapiens) | 27.74 | 1.69 | + | 8.76E-04 | 1.48E-02 | | [regulation of release of cytochrome c from mitochondria](http://amigo.geneontology.org/amigo/term/GO:0090199) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090199&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090199&list=upload_1&organism=Homo%20sapiens) | 2.15 | 4.19 | + | 6.68E-04 | 1.19E-02 | | [negative regulation of microtubule polymerization or depolymerization](http://amigo.geneontology.org/amigo/term/GO:0031111) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031111&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031111&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.17 | + | 1.36E-03 | 2.13E-02 | | [extrinsic apoptotic signaling pathway via death domain receptors](http://amigo.geneontology.org/amigo/term/GO:0008625) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008625&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008625&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.17 | + | 1.36E-03 | 2.13E-02 | | [extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097191) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&list=upload_1&organism=Homo%20sapiens) | 5.03 | 3.18 | + | 1.23E-04 | 2.86E-03 | | [regulation of epidermal cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045604) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045604&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045604&list=upload_1&organism=Homo%20sapiens) | 2.65 | 4.15 | + | 1.87E-04 | 4.12E-03 | | [regulation of epidermis development](http://amigo.geneontology.org/amigo/term/GO:0045682) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045682&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045682&list=upload_1&organism=Homo%20sapiens) | 2.97 | 3.70 | + | 4.46E-04 | 8.55E-03 | | [regulation of epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030856) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030856&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030856&list=upload_1&organism=Homo%20sapiens) | 6.95 | 3.31 | + | 2.47E-06 | 8.67E-05 | | [regulation of interferon-beta production](http://amigo.geneontology.org/amigo/term/GO:0032648) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032648&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032648&list=upload_1&organism=Homo%20sapiens) | 2.65 | 4.15 | + | 1.87E-04 | 4.11E-03 | | [regulation of type I interferon production](http://amigo.geneontology.org/amigo/term/GO:0032479) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032479&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032479&list=upload_1&organism=Homo%20sapiens) | 4.71 | 3.61 | + | 1.84E-05 | 5.39E-04 | | [negative regulation of fat cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045599) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045599&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045599&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.13 | + | 3.77E-04 | 7.42E-03 | | [regulation of fat cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045598) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045598&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045598&list=upload_1&organism=Homo%20sapiens) | 6.17 | 3.24 | + | 1.45E-05 | 4.33E-04 | | [negative regulation of mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0010823) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010823&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010823&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.13 | + | 3.77E-04 | 7.41E-03 | | [positive regulation of smooth muscle cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0048661) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048661&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048661&list=upload_1&organism=Homo%20sapiens) | 3.88 | 4.12 | + | 7.63E-06 | 2.43E-04 | | [regulation of smooth muscle cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0048660) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&list=upload_1&organism=Homo%20sapiens) | 6.49 | 3.24 | + | 9.16E-06 | 2.85E-04 | | [autonomic nervous system development](http://amigo.geneontology.org/amigo/term/GO:0048483) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048483&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048483&list=upload_1&organism=Homo%20sapiens) | 2.19 | 4.10 | + | 7.63E-04 | 1.33E-02 | | [positive regulation of nitric oxide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0045429) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045429&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045429&list=upload_1&organism=Homo%20sapiens) | 1.97 | 4.07 | + | 1.55E-03 | 2.37E-02 | | [positive regulation of nitric oxide metabolic process](http://amigo.geneontology.org/amigo/term/GO:1904407) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904407&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904407&list=upload_1&organism=Homo%20sapiens) | 2.06 | 3.89 | + | 2.00E-03 | 2.92E-02 | | [regulation of inflammatory response to antigenic stimulus](http://amigo.geneontology.org/amigo/term/GO:0002861) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002861&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002861&list=upload_1&organism=Homo%20sapiens) | 1.97 | 4.07 | + | 1.55E-03 | 2.37E-02 | | [regulation of inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0050727) | [372](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050727&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050727&list=upload_1&organism=Homo%20sapiens) | 17.00 | 2.41 | + | 1.10E-06 | 4.14E-05 | | [regulation of defense response](http://amigo.geneontology.org/amigo/term/GO:0031347) | [642](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031347&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031347&list=upload_1&organism=Homo%20sapiens) | 29.34 | 2.18 | + | 3.32E-08 | 1.66E-06 | | [positive regulation of reactive oxygen species metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000379) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000379&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000379&list=upload_1&organism=Homo%20sapiens) | 3.20 | 4.06 | + | 6.05E-05 | 1.56E-03 | | [regulation of reactive oxygen species metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000377) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000377&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000377&list=upload_1&organism=Homo%20sapiens) | 6.58 | 3.34 | + | 3.54E-06 | 1.22E-04 | | [positive regulation of blood vessel endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0043536) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043536&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043536&list=upload_1&organism=Homo%20sapiens) | 2.47 | 4.05 | + | 4.30E-04 | 8.31E-03 | | [positive regulation of epithelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010634) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010634&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010634&list=upload_1&organism=Homo%20sapiens) | 6.90 | 2.61 | + | 4.47E-04 | 8.54E-03 | | [positive regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030335) | [532](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030335&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030335&list=upload_1&organism=Homo%20sapiens) | 24.31 | 2.26 | + | 1.04E-07 | 4.77E-06 | | [positive regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000147) | [558](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000147&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000147&list=upload_1&organism=Homo%20sapiens) | 25.50 | 2.16 | + | 5.47E-07 | 2.19E-05 | | [positive regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040017) | [574](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&list=upload_1&organism=Homo%20sapiens) | 26.23 | 2.10 | + | 1.32E-06 | 4.87E-05 | | [protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0043491) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043491&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043491&list=upload_1&organism=Homo%20sapiens) | 2.47 | 4.05 | + | 4.30E-04 | 8.30E-03 | | [positive regulation of lamellipodium organization](http://amigo.geneontology.org/amigo/term/GO:1902745) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902745&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902745&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.03 | + | 3.16E-03 | 4.30E-02 | | [positive regulation of fatty acid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045923) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045923&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045923&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.03 | + | 3.16E-03 | 4.30E-02 | | [regulation of fatty acid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019217) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019217&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019217&list=upload_1&organism=Homo%20sapiens) | 4.34 | 2.99 | + | 8.65E-04 | 1.47E-02 | | [regulation of cellular ketone metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010565) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010565&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010565&list=upload_1&organism=Homo%20sapiens) | 6.17 | 2.76 | + | 3.61E-04 | 7.14E-03 | | [regulation of small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0062012) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062012&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062012&list=upload_1&organism=Homo%20sapiens) | 15.22 | 2.37 | + | 7.41E-06 | 2.37E-04 | | [positive regulation of small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0062013) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&list=upload_1&organism=Homo%20sapiens) | 6.72 | 2.83 | + | 1.23E-04 | 2.86E-03 | | [positive regulation of lipid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045834) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045834&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045834&list=upload_1&organism=Homo%20sapiens) | 7.04 | 2.70 | + | 2.12E-04 | 4.52E-03 | | [regulation of cell cycle checkpoint](http://amigo.geneontology.org/amigo/term/GO:1901976) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901976&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901976&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 8.68E-04 | 1.47E-02 | | [axon extension](http://amigo.geneontology.org/amigo/term/GO:0048675) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048675&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048675&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 8.68E-04 | 1.47E-02 | | [neuron projection extension](http://amigo.geneontology.org/amigo/term/GO:1990138) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990138&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990138&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.41 | + | 4.85E-04 | 9.11E-03 | | [developmental cell growth](http://amigo.geneontology.org/amigo/term/GO:0048588) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&list=upload_1&organism=Homo%20sapiens) | 4.71 | 3.40 | + | 6.16E-05 | 1.58E-03 | | [developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048589) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&list=upload_1&organism=Homo%20sapiens) | 18.88 | 2.12 | + | 3.42E-05 | 9.42E-04 | | [growth](http://amigo.geneontology.org/amigo/term/GO:0040007) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&list=upload_1&organism=Homo%20sapiens) | 18.88 | 2.12 | + | 3.42E-05 | 9.44E-04 | | [cell growth](http://amigo.geneontology.org/amigo/term/GO:0016049) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.33 | + | 7.55E-05 | 1.89E-03 | | [cell morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0000902) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&list=upload_1&organism=Homo%20sapiens) | 32.59 | 1.75 | + | 1.01E-04 | 2.42E-03 | | [cell part morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032990) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&list=upload_1&organism=Homo%20sapiens) | 23.22 | 1.77 | + | 9.30E-04 | 1.55E-02 | | [cellular component morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032989) | [604](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&list=upload_1&organism=Homo%20sapiens) | 27.61 | 1.74 | + | 4.21E-04 | 8.14E-03 | | [developmental growth involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060560) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060560&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060560&list=upload_1&organism=Homo%20sapiens) | 5.99 | 3.17 | + | 3.06E-05 | 8.50E-04 | | [cell morphogenesis involved in differentiation](http://amigo.geneontology.org/amigo/term/GO:0000904) | [556](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&list=upload_1&organism=Homo%20sapiens) | 25.41 | 1.69 | + | 1.54E-03 | 2.36E-02 | | [axon development](http://amigo.geneontology.org/amigo/term/GO:0061564) | [404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&list=upload_1&organism=Homo%20sapiens) | 18.46 | 1.79 | + | 2.79E-03 | 3.86E-02 | | [response to exogenous dsRNA](http://amigo.geneontology.org/amigo/term/GO:0043330) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043330&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043330&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 8.68E-04 | 1.47E-02 | | [response to dsRNA](http://amigo.geneontology.org/amigo/term/GO:0043331) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043331&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043331&list=upload_1&organism=Homo%20sapiens) | 2.56 | 3.91 | + | 5.54E-04 | 1.02E-02 | | [endodermal cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0035987) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035987&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035987&list=upload_1&organism=Homo%20sapiens) | 2.01 | 3.98 | + | 1.76E-03 | 2.66E-02 | | [endoderm formation](http://amigo.geneontology.org/amigo/term/GO:0001706) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001706&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001706&list=upload_1&organism=Homo%20sapiens) | 2.47 | 4.46 | + | 1.08E-04 | 2.56E-03 | | [endoderm development](http://amigo.geneontology.org/amigo/term/GO:0007492) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007492&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007492&list=upload_1&organism=Homo%20sapiens) | 3.70 | 4.32 | + | 4.46E-06 | 1.50E-04 | | [formation of primary germ layer](http://amigo.geneontology.org/amigo/term/GO:0001704) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001704&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001704&list=upload_1&organism=Homo%20sapiens) | 5.48 | 2.55 | + | 2.22E-03 | 3.20E-02 | | [gastrulation](http://amigo.geneontology.org/amigo/term/GO:0007369) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007369&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007369&list=upload_1&organism=Homo%20sapiens) | 7.72 | 2.20 | + | 3.59E-03 | 4.71E-02 | | [embryonic morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048598) | [591](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048598&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048598&list=upload_1&organism=Homo%20sapiens) | 27.01 | 1.93 | + | 2.04E-05 | 5.92E-04 | | [embryo development](http://amigo.geneontology.org/amigo/term/GO:0009790) | [1059](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009790&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009790&list=upload_1&organism=Homo%20sapiens) | 48.40 | 1.84 | + | 1.51E-07 | 6.78E-06 | | [positive regulation of neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043525) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043525&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043525&list=upload_1&organism=Homo%20sapiens) | 2.51 | 3.98 | + | 4.89E-04 | 9.18E-03 | | [regulation of neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043523) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043523&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043523&list=upload_1&organism=Homo%20sapiens) | 9.96 | 3.31 | + | 1.71E-08 | 8.89E-07 | | [regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901214) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&list=upload_1&organism=Homo%20sapiens) | 14.85 | 3.23 | + | 2.11E-11 | 1.68E-09 | | [positive regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901216) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&list=upload_1&organism=Homo%20sapiens) | 4.25 | 4.00 | + | 5.64E-06 | 1.87E-04 | | [cellular response to virus](http://amigo.geneontology.org/amigo/term/GO:0098586) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098586&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098586&list=upload_1&organism=Homo%20sapiens) | 4.02 | 3.98 | + | 1.12E-05 | 3.43E-04 | | [response to virus](http://amigo.geneontology.org/amigo/term/GO:0009615) | [357](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009615&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009615&list=upload_1&organism=Homo%20sapiens) | 16.32 | 3.13 | + | 1.47E-11 | 1.23E-09 | | [neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0051402) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.96 | + | 6.39E-06 | 2.09E-04 | | [neuron death](http://amigo.geneontology.org/amigo/term/GO:0070997) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070997&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070997&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.96 | + | 1.84E-06 | 6.60E-05 | | [negative regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0032091) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.96 | + | 6.39E-06 | 2.08E-04 | | [negative regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051100) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051100&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051100&list=upload_1&organism=Homo%20sapiens) | 7.45 | 3.49 | + | 2.26E-07 | 9.91E-06 | | [regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0043393) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&list=upload_1&organism=Homo%20sapiens) | 9.19 | 3.16 | + | 3.08E-07 | 1.31E-05 | | [positive regulation of intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001244) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001244&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001244&list=upload_1&organism=Homo%20sapiens) | 2.79 | 3.95 | + | 2.76E-04 | 5.69E-03 | | [positive regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001235) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001235&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001235&list=upload_1&organism=Homo%20sapiens) | 5.94 | 3.03 | + | 8.41E-05 | 2.08E-03 | | [regulation of cardiac muscle cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0060043) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060043&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060043&list=upload_1&organism=Homo%20sapiens) | 1.78 | 3.93 | + | 3.59E-03 | 4.71E-02 | | [regulation of developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048638) | [324](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&list=upload_1&organism=Homo%20sapiens) | 14.81 | 1.96 | + | 1.37E-03 | 2.14E-02 | | [regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0040008) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&list=upload_1&organism=Homo%20sapiens) | 28.66 | 1.92 | + | 1.43E-05 | 4.27E-04 | | [regulation of protein localization to cell surface](http://amigo.geneontology.org/amigo/term/GO:2000008) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000008&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000008&list=upload_1&organism=Homo%20sapiens) | 1.78 | 3.93 | + | 3.59E-03 | 4.71E-02 | | [regulation of protein targeting to mitochondrion](http://amigo.geneontology.org/amigo/term/GO:1903214) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903214&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903214&list=upload_1&organism=Homo%20sapiens) | 2.06 | 3.89 | + | 2.00E-03 | 2.93E-02 | | [regulation of erythrocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0045646) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045646&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045646&list=upload_1&organism=Homo%20sapiens) | 2.06 | 3.89 | + | 2.00E-03 | 2.93E-02 | | [positive regulation of type I interferon production](http://amigo.geneontology.org/amigo/term/GO:0032481) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032481&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032481&list=upload_1&organism=Homo%20sapiens) | 2.88 | 3.82 | + | 3.52E-04 | 6.99E-03 | | [cellular response to nerve growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:1990090) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990090&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990090&list=upload_1&organism=Homo%20sapiens) | 2.10 | 3.81 | + | 2.26E-03 | 3.24E-02 | | [response to nerve growth factor](http://amigo.geneontology.org/amigo/term/GO:1990089) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990089&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990089&list=upload_1&organism=Homo%20sapiens) | 2.19 | 3.65 | + | 2.85E-03 | 3.92E-02 | | [protein localization to chromosome](http://amigo.geneontology.org/amigo/term/GO:0034502) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034502&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034502&list=upload_1&organism=Homo%20sapiens) | 3.43 | 3.79 | + | 1.12E-04 | 2.65E-03 | | [response to axon injury](http://amigo.geneontology.org/amigo/term/GO:0048678) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048678&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048678&list=upload_1&organism=Homo%20sapiens) | 2.65 | 3.77 | + | 7.05E-04 | 1.25E-02 | | [response to wounding](http://amigo.geneontology.org/amigo/term/GO:0009611) | [447](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&list=upload_1&organism=Homo%20sapiens) | 20.43 | 2.15 | + | 8.88E-06 | 2.78E-04 | | [positive regulation of DNA binding](http://amigo.geneontology.org/amigo/term/GO:0043388) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043388&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043388&list=upload_1&organism=Homo%20sapiens) | 2.65 | 3.77 | + | 7.05E-04 | 1.25E-02 | | [regulation of DNA binding](http://amigo.geneontology.org/amigo/term/GO:0051101) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051101&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051101&list=upload_1&organism=Homo%20sapiens) | 5.67 | 3.18 | + | 4.86E-05 | 1.28E-03 | | [positive regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051099) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&list=upload_1&organism=Homo%20sapiens) | 8.27 | 2.42 | + | 6.59E-04 | 1.18E-02 | | [positive regulation of myeloid leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002763) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002763&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002763&list=upload_1&organism=Homo%20sapiens) | 2.65 | 3.77 | + | 7.05E-04 | 1.24E-02 | | [regulation of myeloid leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002761) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002761&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002761&list=upload_1&organism=Homo%20sapiens) | 5.58 | 2.69 | + | 9.76E-04 | 1.60E-02 | | [positive regulation of myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045639) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045639&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045639&list=upload_1&organism=Homo%20sapiens) | 4.57 | 3.50 | + | 4.50E-05 | 1.19E-03 | | [regulation of mitochondrial membrane potential](http://amigo.geneontology.org/amigo/term/GO:0051881) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051881&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051881&list=upload_1&organism=Homo%20sapiens) | 3.24 | 3.70 | + | 2.51E-04 | 5.25E-03 | | [regulation of membrane potential](http://amigo.geneontology.org/amigo/term/GO:0042391) | [430](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&list=upload_1&organism=Homo%20sapiens) | 19.65 | 2.04 | + | 8.03E-05 | 2.00E-03 | | [protein autoubiquitination](http://amigo.geneontology.org/amigo/term/GO:0051865) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051865&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051865&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.69 | + | 1.42E-04 | 3.23E-03 | | [protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0016567) | [684](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016567&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016567&list=upload_1&organism=Homo%20sapiens) | 31.26 | 2.02 | + | 6.12E-07 | 2.44E-05 | | [protein modification by small protein conjugation](http://amigo.geneontology.org/amigo/term/GO:0032446) | [753](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032446&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032446&list=upload_1&organism=Homo%20sapiens) | 34.42 | 2.09 | + | 2.59E-08 | 1.31E-06 | | [protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:0070647) | [898](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070647&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070647&list=upload_1&organism=Homo%20sapiens) | 41.04 | 1.95 | + | 5.91E-08 | 2.80E-06 | | [receptor internalization](http://amigo.geneontology.org/amigo/term/GO:0031623) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031623&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031623&list=upload_1&organism=Homo%20sapiens) | 3.29 | 3.65 | + | 2.82E-04 | 5.80E-03 | | [receptor-mediated endocytosis](http://amigo.geneontology.org/amigo/term/GO:0006898) | [171](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006898&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006898&list=upload_1&organism=Homo%20sapiens) | 7.82 | 2.69 | + | 1.07E-04 | 2.53E-03 | | [endocytosis](http://amigo.geneontology.org/amigo/term/GO:0006897) | [528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006897&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006897&list=upload_1&organism=Homo%20sapiens) | 24.13 | 1.99 | + | 1.85E-05 | 5.39E-04 | | [positive regulation of receptor signaling pathway via STAT](http://amigo.geneontology.org/amigo/term/GO:1904894) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904894&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904894&list=upload_1&organism=Homo%20sapiens) | 2.19 | 3.65 | + | 2.85E-03 | 3.92E-02 | | [regulation of receptor signaling pathway via STAT](http://amigo.geneontology.org/amigo/term/GO:1904892) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904892&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904892&list=upload_1&organism=Homo%20sapiens) | 3.93 | 3.05 | + | 1.16E-03 | 1.86E-02 | | [cellular response to glucose starvation](http://amigo.geneontology.org/amigo/term/GO:0042149) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042149&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042149&list=upload_1&organism=Homo%20sapiens) | 2.51 | 3.58 | + | 1.78E-03 | 2.68E-02 | | [cellular response to starvation](http://amigo.geneontology.org/amigo/term/GO:0009267) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009267&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009267&list=upload_1&organism=Homo%20sapiens) | 8.14 | 2.46 | + | 5.81E-04 | 1.07E-02 | | [cellular response to nutrient levels](http://amigo.geneontology.org/amigo/term/GO:0031669) | [226](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031669&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031669&list=upload_1&organism=Homo%20sapiens) | 10.33 | 2.71 | + | 7.04E-06 | 2.26E-04 | | [cellular response to extracellular stimulus](http://amigo.geneontology.org/amigo/term/GO:0031668) | [256](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031668&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031668&list=upload_1&organism=Homo%20sapiens) | 11.70 | 2.48 | + | 2.53E-05 | 7.16E-04 | | [response to starvation](http://amigo.geneontology.org/amigo/term/GO:0042594) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042594&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042594&list=upload_1&organism=Homo%20sapiens) | 9.83 | 2.34 | + | 3.50E-04 | 6.95E-03 | | [protein sumoylation](http://amigo.geneontology.org/amigo/term/GO:0016925) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016925&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016925&list=upload_1&organism=Homo%20sapiens) | 2.24 | 3.57 | + | 3.19E-03 | 4.32E-02 | | [regulation of cellular respiration](http://amigo.geneontology.org/amigo/term/GO:0043457) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043457&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043457&list=upload_1&organism=Homo%20sapiens) | 2.24 | 3.57 | + | 3.19E-03 | 4.32E-02 | | [regulation of generation of precursor metabolites and energy](http://amigo.geneontology.org/amigo/term/GO:0043467) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&list=upload_1&organism=Homo%20sapiens) | 6.03 | 2.98 | + | 1.00E-04 | 2.41E-03 | | [negative regulation of epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030857) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030857&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030857&list=upload_1&organism=Homo%20sapiens) | 2.24 | 3.57 | + | 3.19E-03 | 4.31E-02 | | [negative regulation of dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035305) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035305&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035305&list=upload_1&organism=Homo%20sapiens) | 2.24 | 3.57 | + | 3.19E-03 | 4.31E-02 | | [negative regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045936) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&list=upload_1&organism=Homo%20sapiens) | 19.29 | 2.13 | + | 2.47E-05 | 7.05E-04 | | [negative regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010563) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&list=upload_1&organism=Homo%20sapiens) | 19.33 | 2.12 | + | 2.52E-05 | 7.17E-04 | | [regulation of dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035303) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&list=upload_1&organism=Homo%20sapiens) | 6.17 | 2.76 | + | 3.61E-04 | 7.15E-03 | | [cellular response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097306) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097306&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097306&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.57 | + | 3.62E-05 | 9.87E-04 | | [negative regulation of neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043524) | [155](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043524&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043524&list=upload_1&organism=Homo%20sapiens) | 7.08 | 3.53 | + | 3.19E-07 | 1.36E-05 | | [negative regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901215) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&list=upload_1&organism=Homo%20sapiens) | 10.05 | 3.38 | + | 6.57E-09 | 3.58E-07 | | [regulation of mitotic nuclear division](http://amigo.geneontology.org/amigo/term/GO:0007088) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007088&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007088&list=upload_1&organism=Homo%20sapiens) | 5.39 | 3.52 | + | 8.29E-06 | 2.62E-04 | | [regulation of nuclear division](http://amigo.geneontology.org/amigo/term/GO:0051783) | [145](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051783&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051783&list=upload_1&organism=Homo%20sapiens) | 6.63 | 3.02 | + | 3.64E-05 | 9.88E-04 | | [regulation of interleukin-12 production](http://amigo.geneontology.org/amigo/term/GO:0032655) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032655&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032655&list=upload_1&organism=Homo%20sapiens) | 2.88 | 3.47 | + | 1.24E-03 | 1.97E-02 | | [T cell differentiation in thymus](http://amigo.geneontology.org/amigo/term/GO:0033077) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033077&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033077&list=upload_1&organism=Homo%20sapiens) | 2.88 | 3.47 | + | 1.24E-03 | 1.97E-02 | | [T cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030217) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030217&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030217&list=upload_1&organism=Homo%20sapiens) | 7.72 | 2.59 | + | 2.41E-04 | 5.05E-03 | | [T cell activation](http://amigo.geneontology.org/amigo/term/GO:0042110) | [300](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042110&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042110&list=upload_1&organism=Homo%20sapiens) | 13.71 | 2.26 | + | 6.49E-05 | 1.65E-03 | | [lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0046649) | [465](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046649&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046649&list=upload_1&organism=Homo%20sapiens) | 21.25 | 2.49 | + | 1.04E-08 | 5.58E-07 | | [lymphocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0030098) | [280](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030098&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030098&list=upload_1&organism=Homo%20sapiens) | 12.80 | 3.05 | + | 7.02E-09 | 3.81E-07 | | [mononuclear cell differentiation](http://amigo.geneontology.org/amigo/term/GO:1903131) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903131&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903131&list=upload_1&organism=Homo%20sapiens) | 14.90 | 3.15 | + | 7.10E-11 | 5.25E-09 | | [leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002521) | [400](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&list=upload_1&organism=Homo%20sapiens) | 18.28 | 2.90 | + | 7.22E-11 | 5.32E-09 | | [hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:0030097) | [660](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&list=upload_1&organism=Homo%20sapiens) | 30.16 | 2.35 | + | 2.79E-10 | 1.88E-08 | | [insulin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0008286) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&list=upload_1&organism=Homo%20sapiens) | 2.88 | 3.47 | + | 1.24E-03 | 1.97E-02 | | [cellular response to insulin stimulus](http://amigo.geneontology.org/amigo/term/GO:0032869) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032869&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032869&list=upload_1&organism=Homo%20sapiens) | 6.72 | 3.57 | + | 4.50E-07 | 1.84E-05 | | [response to insulin](http://amigo.geneontology.org/amigo/term/GO:0032868) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032868&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032868&list=upload_1&organism=Homo%20sapiens) | 9.73 | 3.08 | + | 3.07E-07 | 1.31E-05 | | [response to peptide hormone](http://amigo.geneontology.org/amigo/term/GO:0043434) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&list=upload_1&organism=Homo%20sapiens) | 16.59 | 2.53 | + | 2.25E-07 | 9.93E-06 | | [response to peptide](http://amigo.geneontology.org/amigo/term/GO:1901652) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&list=upload_1&organism=Homo%20sapiens) | 20.34 | 2.66 | + | 1.02E-09 | 6.26E-08 | | [cellular response to peptide hormone stimulus](http://amigo.geneontology.org/amigo/term/GO:0071375) | [241](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071375&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071375&list=upload_1&organism=Homo%20sapiens) | 11.01 | 3.36 | + | 1.67E-09 | 9.76E-08 | | [cellular response to peptide](http://amigo.geneontology.org/amigo/term/GO:1901653) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901653&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901653&list=upload_1&organism=Homo%20sapiens) | 13.85 | 3.47 | + | 2.32E-12 | 2.18E-10 | | [cellular response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0071417) | [578](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071417&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071417&list=upload_1&organism=Homo%20sapiens) | 26.42 | 2.73 | + | 5.40E-13 | 5.36E-11 | | [cellular response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901699) | [641](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901699&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901699&list=upload_1&organism=Homo%20sapiens) | 29.30 | 2.66 | + | 1.22E-13 | 1.39E-11 | | [synaptic vesicle endocytosis](http://amigo.geneontology.org/amigo/term/GO:0048488) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048488&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048488&list=upload_1&organism=Homo%20sapiens) | 2.61 | 3.45 | + | 2.21E-03 | 3.20E-02 | | [presynaptic endocytosis](http://amigo.geneontology.org/amigo/term/GO:0140238) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140238&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140238&list=upload_1&organism=Homo%20sapiens) | 2.61 | 3.45 | + | 2.21E-03 | 3.20E-02 | | [peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018105) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&list=upload_1&organism=Homo%20sapiens) | 8.50 | 3.41 | + | 7.11E-08 | 3.34E-06 | | [peptidyl-serine modification](http://amigo.geneontology.org/amigo/term/GO:0018209) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&list=upload_1&organism=Homo%20sapiens) | 9.42 | 3.08 | + | 4.86E-07 | 1.97E-05 | | [cellular response to glucose stimulus](http://amigo.geneontology.org/amigo/term/GO:0071333) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071333&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071333&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.41 | + | 4.85E-04 | 9.12E-03 | | [cellular response to hexose stimulus](http://amigo.geneontology.org/amigo/term/GO:0071331) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071331&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071331&list=upload_1&organism=Homo%20sapiens) | 3.61 | 3.32 | + | 5.95E-04 | 1.09E-02 | | [cellular response to monosaccharide stimulus](http://amigo.geneontology.org/amigo/term/GO:0071326) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071326&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071326&list=upload_1&organism=Homo%20sapiens) | 3.70 | 3.24 | + | 7.25E-04 | 1.27E-02 | | [cellular response to carbohydrate stimulus](http://amigo.geneontology.org/amigo/term/GO:0071322) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071322&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071322&list=upload_1&organism=Homo%20sapiens) | 4.25 | 3.29 | + | 2.33E-04 | 4.93E-03 | | [response to carbohydrate](http://amigo.geneontology.org/amigo/term/GO:0009743) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009743&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009743&list=upload_1&organism=Homo%20sapiens) | 8.27 | 3.26 | + | 4.36E-07 | 1.79E-05 | | [response to monosaccharide](http://amigo.geneontology.org/amigo/term/GO:0034284) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034284&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034284&list=upload_1&organism=Homo%20sapiens) | 7.04 | 3.13 | + | 9.24E-06 | 2.87E-04 | | [response to hexose](http://amigo.geneontology.org/amigo/term/GO:0009746) | [146](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009746&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009746&list=upload_1&organism=Homo%20sapiens) | 6.67 | 3.30 | + | 4.32E-06 | 1.46E-04 | | [response to glucose](http://amigo.geneontology.org/amigo/term/GO:0009749) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009749&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009749&list=upload_1&organism=Homo%20sapiens) | 6.44 | 3.26 | + | 8.31E-06 | 2.62E-04 | | [cellular glucose homeostasis](http://amigo.geneontology.org/amigo/term/GO:0001678) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001678&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001678&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.03 | + | 4.95E-04 | 9.25E-03 | | [glucose homeostasis](http://amigo.geneontology.org/amigo/term/GO:0042593) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042593&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042593&list=upload_1&organism=Homo%20sapiens) | 9.19 | 2.50 | + | 1.77E-04 | 3.92E-03 | | [carbohydrate homeostasis](http://amigo.geneontology.org/amigo/term/GO:0033500) | [202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033500&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033500&list=upload_1&organism=Homo%20sapiens) | 9.23 | 2.49 | + | 1.84E-04 | 4.07E-03 | | [chemical homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048878) | [916](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&list=upload_1&organism=Homo%20sapiens) | 41.86 | 1.65 | + | 1.15E-04 | 2.71E-03 | | [cellular chemical homeostasis](http://amigo.geneontology.org/amigo/term/GO:0055082) | [534](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055082&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055082&list=upload_1&organism=Homo%20sapiens) | 24.41 | 1.76 | + | 6.19E-04 | 1.13E-02 | | [positive regulation of protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0051897) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051897&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051897&list=upload_1&organism=Homo%20sapiens) | 5.30 | 3.40 | + | 2.22E-05 | 6.41E-04 | | [regulation of protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0051896) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051896&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051896&list=upload_1&organism=Homo%20sapiens) | 7.77 | 2.70 | + | 9.90E-05 | 2.39E-03 | | [negative regulation of epithelial cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:1904036) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904036&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904036&list=upload_1&organism=Homo%20sapiens) | 2.65 | 3.40 | + | 2.46E-03 | 3.48E-02 | | [regulation of epithelial cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:1904035) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904035&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904035&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.57 | + | 3.62E-05 | 9.86E-04 | | [substrate adhesion-dependent cell spreading](http://amigo.geneontology.org/amigo/term/GO:0034446) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034446&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034446&list=upload_1&organism=Homo%20sapiens) | 2.65 | 3.40 | + | 2.46E-03 | 3.48E-02 | | [circadian regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0032922) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032922&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032922&list=upload_1&organism=Homo%20sapiens) | 3.24 | 3.39 | + | 8.59E-04 | 1.46E-02 | | [circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0007623) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&list=upload_1&organism=Homo%20sapiens) | 6.31 | 3.01 | + | 5.78E-05 | 1.50E-03 | | [rhythmic process](http://amigo.geneontology.org/amigo/term/GO:0048511) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&list=upload_1&organism=Homo%20sapiens) | 12.43 | 2.82 | + | 2.34E-07 | 1.02E-05 | | [stem cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0072089) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072089&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072089&list=upload_1&organism=Homo%20sapiens) | 3.56 | 3.37 | + | 5.37E-04 | 9.95E-03 | | [G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000082) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000082&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000082&list=upload_1&organism=Homo%20sapiens) | 3.88 | 3.35 | + | 3.37E-04 | 6.74E-03 | | [mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044772) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&list=upload_1&organism=Homo%20sapiens) | 7.91 | 2.53 | + | 4.90E-04 | 9.19E-03 | | [mitotic cell cycle process](http://amigo.geneontology.org/amigo/term/GO:1903047) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903047&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903047&list=upload_1&organism=Homo%20sapiens) | 24.36 | 1.97 | + | 2.96E-05 | 8.26E-04 | | [mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000278) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&list=upload_1&organism=Homo%20sapiens) | 28.66 | 2.13 | + | 1.85E-07 | 8.16E-06 | | [cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044770) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&list=upload_1&organism=Homo%20sapiens) | 8.36 | 2.39 | + | 7.21E-04 | 1.27E-02 | | [cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:0044843) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044843&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044843&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.27 | + | 4.11E-04 | 7.98E-03 | | [regulation of phosphoprotein phosphatase activity](http://amigo.geneontology.org/amigo/term/GO:0043666) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043666&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043666&list=upload_1&organism=Homo%20sapiens) | 2.70 | 3.34 | + | 2.73E-03 | 3.81E-02 | | [regulation of protein dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035304) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035304&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035304&list=upload_1&organism=Homo%20sapiens) | 4.30 | 2.79 | + | 2.29E-03 | 3.27E-02 | | [regulation of phosphatase activity](http://amigo.geneontology.org/amigo/term/GO:0010921) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010921&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010921&list=upload_1&organism=Homo%20sapiens) | 3.93 | 3.05 | + | 1.16E-03 | 1.86E-02 | | [positive regulation of protein localization to plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1903078) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903078&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903078&list=upload_1&organism=Homo%20sapiens) | 2.74 | 3.28 | + | 3.02E-03 | 4.12E-02 | | [regulation of protein localization to plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1903076) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903076&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903076&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.92 | + | 7.00E-04 | 1.24E-02 | | [regulation of protein localization to cell periphery](http://amigo.geneontology.org/amigo/term/GO:1904375) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904375&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904375&list=upload_1&organism=Homo%20sapiens) | 5.80 | 2.58 | + | 1.41E-03 | 2.19E-02 | | [regulation of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:1905475) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905475&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905475&list=upload_1&organism=Homo%20sapiens) | 8.04 | 2.36 | + | 1.10E-03 | 1.78E-02 | | [positive regulation of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:1905477) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&list=upload_1&organism=Homo%20sapiens) | 4.75 | 2.95 | + | 6.43E-04 | 1.16E-02 | | [histone deacetylation](http://amigo.geneontology.org/amigo/term/GO:0016575) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016575&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016575&list=upload_1&organism=Homo%20sapiens) | 2.74 | 3.28 | + | 3.02E-03 | 4.12E-02 | | [histone modification](http://amigo.geneontology.org/amigo/term/GO:0016570) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016570&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016570&list=upload_1&organism=Homo%20sapiens) | 16.68 | 2.04 | + | 2.64E-04 | 5.47E-03 | | [positive regulation of T cell mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0002711) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002711&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002711&list=upload_1&organism=Homo%20sapiens) | 2.74 | 3.28 | + | 3.02E-03 | 4.11E-02 | | [regulation of T cell mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0002709) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002709&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002709&list=upload_1&organism=Homo%20sapiens) | 4.07 | 2.95 | + | 1.51E-03 | 2.33E-02 | | [regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains](http://amigo.geneontology.org/amigo/term/GO:0002822) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002822&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002822&list=upload_1&organism=Homo%20sapiens) | 8.32 | 2.40 | + | 6.89E-04 | 1.22E-02 | | [regulation of adaptive immune response](http://amigo.geneontology.org/amigo/term/GO:0002819) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002819&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002819&list=upload_1&organism=Homo%20sapiens) | 9.05 | 2.43 | + | 3.22E-04 | 6.50E-03 | | [regulation of leukocyte mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0002703) | [241](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002703&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002703&list=upload_1&organism=Homo%20sapiens) | 11.01 | 2.00 | + | 3.47E-03 | 4.57E-02 | | [positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains](http://amigo.geneontology.org/amigo/term/GO:0002824) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002824&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002824&list=upload_1&organism=Homo%20sapiens) | 5.21 | 3.07 | + | 1.78E-04 | 3.94E-03 | | [positive regulation of adaptive immune response](http://amigo.geneontology.org/amigo/term/GO:0002821) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002821&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002821&list=upload_1&organism=Homo%20sapiens) | 5.48 | 2.92 | + | 3.00E-04 | 6.11E-03 | | [positive regulation of phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014068) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014068&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014068&list=upload_1&organism=Homo%20sapiens) | 3.66 | 3.28 | + | 6.57E-04 | 1.18E-02 | | [regulation of phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014066) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014066&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014066&list=upload_1&organism=Homo%20sapiens) | 4.94 | 2.84 | + | 8.98E-04 | 1.51E-02 | | [response to alkaloid](http://amigo.geneontology.org/amigo/term/GO:0043279) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043279&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043279&list=upload_1&organism=Homo%20sapiens) | 4.57 | 3.28 | + | 1.47E-04 | 3.33E-03 | | [glucose metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006006) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006006&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006006&list=upload_1&organism=Homo%20sapiens) | 5.21 | 3.26 | + | 5.80E-05 | 1.50E-03 | | [hexose metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019318) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019318&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019318&list=upload_1&organism=Homo%20sapiens) | 7.13 | 2.81 | + | 9.11E-05 | 2.22E-03 | | [monosaccharide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0005996) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005996&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005996&list=upload_1&organism=Homo%20sapiens) | 8.04 | 2.73 | + | 5.83E-05 | 1.51E-03 | | [small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044281) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044281&reflist=1) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044281&list=upload_1&organism=Homo%20sapiens) | 75.59 | 1.36 | + | 2.27E-03 | 3.25E-02 | | [carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0005975) | [475](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005975&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005975&list=upload_1&organism=Homo%20sapiens) | 21.71 | 1.75 | + | 1.45E-03 | 2.24E-02 | | [regulation of leukocyte apoptotic process](http://amigo.geneontology.org/amigo/term/GO:2000106) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000106&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000106&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.26 | + | 2.58E-04 | 5.36E-03 | | [cellular response to hypoxia](http://amigo.geneontology.org/amigo/term/GO:0071456) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071456&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071456&list=upload_1&organism=Homo%20sapiens) | 5.85 | 3.25 | + | 2.30E-05 | 6.63E-04 | | [response to hypoxia](http://amigo.geneontology.org/amigo/term/GO:0001666) | [277](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&list=upload_1&organism=Homo%20sapiens) | 12.66 | 2.76 | + | 3.45E-07 | 1.45E-05 | | [response to decreased oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0036293) | [290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036293&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036293&list=upload_1&organism=Homo%20sapiens) | 13.25 | 2.72 | + | 3.46E-07 | 1.46E-05 | | [response to oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0070482) | [319](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&list=upload_1&organism=Homo%20sapiens) | 14.58 | 2.61 | + | 5.22E-07 | 2.10E-05 | | [cellular response to decreased oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0036294) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036294&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036294&list=upload_1&organism=Homo%20sapiens) | 6.22 | 3.22 | + | 1.60E-05 | 4.73E-04 | | [cellular response to oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0071453) | [153](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071453&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071453&list=upload_1&organism=Homo%20sapiens) | 6.99 | 3.00 | + | 2.51E-05 | 7.14E-04 | | [positive regulation of epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030858) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030858&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030858&list=upload_1&organism=Homo%20sapiens) | 2.79 | 3.23 | + | 3.33E-03 | 4.45E-02 | | [positive regulation of I-kappaB kinase/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0043123) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043123&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043123&list=upload_1&organism=Homo%20sapiens) | 8.68 | 3.22 | + | 3.34E-07 | 1.42E-05 | | [regulation of I-kappaB kinase/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0043122) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043122&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043122&list=upload_1&organism=Homo%20sapiens) | 11.52 | 2.78 | + | 9.88E-07 | 3.75E-05 | | [actin-mediated cell contraction](http://amigo.geneontology.org/amigo/term/GO:0070252) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070252&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070252&list=upload_1&organism=Homo%20sapiens) | 3.11 | 3.22 | + | 2.06E-03 | 3.01E-02 | | [actin filament-based process](http://amigo.geneontology.org/amigo/term/GO:0030029) | [611](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&list=upload_1&organism=Homo%20sapiens) | 27.93 | 1.65 | + | 1.78E-03 | 2.69E-02 | | [regulation of histone acetylation](http://amigo.geneontology.org/amigo/term/GO:0035065) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035065&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035065&list=upload_1&organism=Homo%20sapiens) | 3.11 | 3.22 | + | 2.06E-03 | 3.01E-02 | | [regulation of peptidyl-lysine acetylation](http://amigo.geneontology.org/amigo/term/GO:2000756) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.13 | + | 1.55E-03 | 2.37E-02 | | [regulation of protein acetylation](http://amigo.geneontology.org/amigo/term/GO:1901983) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&list=upload_1&organism=Homo%20sapiens) | 4.07 | 3.20 | + | 4.99E-04 | 9.32E-03 | | [response to estradiol](http://amigo.geneontology.org/amigo/term/GO:0032355) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&list=upload_1&organism=Homo%20sapiens) | 5.62 | 3.20 | + | 4.43E-05 | 1.17E-03 | | [somite development](http://amigo.geneontology.org/amigo/term/GO:0061053) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061053&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061053&list=upload_1&organism=Homo%20sapiens) | 3.75 | 3.20 | + | 7.99E-04 | 1.37E-02 | | [regulation of fibroblast proliferation](http://amigo.geneontology.org/amigo/term/GO:0048145) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048145&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048145&list=upload_1&organism=Homo%20sapiens) | 4.07 | 3.20 | + | 4.99E-04 | 9.31E-03 | | [antigen processing and presentation of peptide antigen](http://amigo.geneontology.org/amigo/term/GO:0048002) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048002&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048002&list=upload_1&organism=Homo%20sapiens) | 2.83 | 3.18 | + | 3.67E-03 | 4.79E-02 | | [antigen processing and presentation](http://amigo.geneontology.org/amigo/term/GO:0019882) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019882&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019882&list=upload_1&organism=Homo%20sapiens) | 4.39 | 2.96 | + | 9.43E-04 | 1.56E-02 | | [cardiac conduction](http://amigo.geneontology.org/amigo/term/GO:0061337) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061337&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061337&list=upload_1&organism=Homo%20sapiens) | 3.15 | 3.17 | + | 2.27E-03 | 3.26E-02 | | [multicellular organismal signaling](http://amigo.geneontology.org/amigo/term/GO:0035637) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035637&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035637&list=upload_1&organism=Homo%20sapiens) | 5.71 | 2.98 | + | 1.59E-04 | 3.57E-03 | | [regulation of heart contraction](http://amigo.geneontology.org/amigo/term/GO:0008016) | [202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008016&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008016&list=upload_1&organism=Homo%20sapiens) | 9.23 | 2.27 | + | 1.32E-03 | 2.08E-02 | | [regulation of blood circulation](http://amigo.geneontology.org/amigo/term/GO:1903522) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903522&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903522&list=upload_1&organism=Homo%20sapiens) | 11.47 | 2.09 | + | 1.46E-03 | 2.26E-02 | | [stress-activated MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0051403) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051403&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051403&list=upload_1&organism=Homo%20sapiens) | 3.47 | 3.17 | + | 1.41E-03 | 2.19E-02 | | [stress-activated protein kinase signaling cascade](http://amigo.geneontology.org/amigo/term/GO:0031098) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031098&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031098&list=upload_1&organism=Homo%20sapiens) | 3.66 | 3.01 | + | 2.04E-03 | 2.98E-02 | | [negative regulation of myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045638) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045638&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045638&list=upload_1&organism=Homo%20sapiens) | 3.84 | 3.13 | + | 9.65E-04 | 1.59E-02 | | [RNA export from nucleus](http://amigo.geneontology.org/amigo/term/GO:0006405) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006405&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006405&list=upload_1&organism=Homo%20sapiens) | 3.84 | 3.13 | + | 9.65E-04 | 1.59E-02 | | [RNA transport](http://amigo.geneontology.org/amigo/term/GO:0050658) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050658&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050658&list=upload_1&organism=Homo%20sapiens) | 7.68 | 2.73 | + | 8.51E-05 | 2.10E-03 | | [establishment of RNA localization](http://amigo.geneontology.org/amigo/term/GO:0051236) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051236&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051236&list=upload_1&organism=Homo%20sapiens) | 7.77 | 2.70 | + | 9.90E-05 | 2.39E-03 | | [RNA localization](http://amigo.geneontology.org/amigo/term/GO:0006403) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006403&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006403&list=upload_1&organism=Homo%20sapiens) | 8.68 | 2.65 | + | 6.24E-05 | 1.59E-03 | | [nucleic acid transport](http://amigo.geneontology.org/amigo/term/GO:0050657) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050657&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050657&list=upload_1&organism=Homo%20sapiens) | 7.68 | 2.73 | + | 8.51E-05 | 2.09E-03 | | [nucleobase-containing compound transport](http://amigo.geneontology.org/amigo/term/GO:0015931) | [225](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015931&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015931&list=upload_1&organism=Homo%20sapiens) | 10.28 | 2.24 | + | 7.64E-04 | 1.33E-02 | | [nuclear export](http://amigo.geneontology.org/amigo/term/GO:0051168) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051168&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051168&list=upload_1&organism=Homo%20sapiens) | 6.08 | 3.13 | + | 3.69E-05 | 9.97E-04 | | [nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0006913) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006913&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006913&list=upload_1&organism=Homo%20sapiens) | 11.33 | 2.82 | + | 7.22E-07 | 2.85E-05 | | [nuclear transport](http://amigo.geneontology.org/amigo/term/GO:0051169) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051169&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051169&list=upload_1&organism=Homo%20sapiens) | 11.33 | 2.82 | + | 7.22E-07 | 2.84E-05 | | [regulation of response to endoplasmic reticulum stress](http://amigo.geneontology.org/amigo/term/GO:1905897) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905897&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905897&list=upload_1&organism=Homo%20sapiens) | 3.84 | 3.13 | + | 9.65E-04 | 1.58E-02 | | [regulation of stem cell population maintenance](http://amigo.geneontology.org/amigo/term/GO:2000036) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000036&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000036&list=upload_1&organism=Homo%20sapiens) | 3.20 | 3.13 | + | 2.50E-03 | 3.53E-02 | | [myeloid leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002573) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&list=upload_1&organism=Homo%20sapiens) | 6.12 | 3.10 | + | 4.04E-05 | 1.08E-03 | | [myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030099) | [264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&list=upload_1&organism=Homo%20sapiens) | 12.07 | 2.40 | + | 3.96E-05 | 1.06E-03 | | [positive regulation of protein polymerization](http://amigo.geneontology.org/amigo/term/GO:0032273) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032273&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032273&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.09 | + | 6.61E-04 | 1.18E-02 | | [regulation of protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0043254) | [412](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043254&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043254&list=upload_1&organism=Homo%20sapiens) | 18.83 | 2.23 | + | 6.51E-06 | 2.11E-04 | | [positive regulation of protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0031334) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031334&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031334&list=upload_1&organism=Homo%20sapiens) | 8.87 | 3.16 | + | 4.87E-07 | 1.97E-05 | | [positive regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044089) | [501](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&list=upload_1&organism=Homo%20sapiens) | 22.90 | 2.27 | + | 2.31E-07 | 1.01E-05 | | [regulation of mitotic metaphase/anaphase transition](http://amigo.geneontology.org/amigo/term/GO:0030071) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030071&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030071&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.09 | + | 6.61E-04 | 1.18E-02 | | [regulation of metaphase/anaphase transition of cell cycle](http://amigo.geneontology.org/amigo/term/GO:1902099) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902099&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902099&list=upload_1&organism=Homo%20sapiens) | 4.34 | 2.99 | + | 8.65E-04 | 1.47E-02 | | [regulation of sister chromatid segregation](http://amigo.geneontology.org/amigo/term/GO:0033045) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033045&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033045&list=upload_1&organism=Homo%20sapiens) | 4.89 | 2.86 | + | 8.27E-04 | 1.42E-02 | | [regulation of chromosome segregation](http://amigo.geneontology.org/amigo/term/GO:0051983) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051983&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051983&list=upload_1&organism=Homo%20sapiens) | 5.99 | 2.67 | + | 7.17E-04 | 1.26E-02 | | [regulation of mitotic sister chromatid separation](http://amigo.geneontology.org/amigo/term/GO:0010965) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010965&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010965&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.13 | + | 3.77E-04 | 7.42E-03 | | [regulation of chromosome separation](http://amigo.geneontology.org/amigo/term/GO:1905818) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905818&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905818&list=upload_1&organism=Homo%20sapiens) | 5.07 | 2.96 | + | 4.03E-04 | 7.85E-03 | | [cellular response to fibroblast growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0044344) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044344&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044344&list=upload_1&organism=Homo%20sapiens) | 3.88 | 3.09 | + | 1.06E-03 | 1.72E-02 | | [response to fibroblast growth factor](http://amigo.geneontology.org/amigo/term/GO:0071774) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071774&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071774&list=upload_1&organism=Homo%20sapiens) | 4.16 | 2.89 | + | 1.79E-03 | 2.69E-02 | | [negative regulation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043154) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043154&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043154&list=upload_1&organism=Homo%20sapiens) | 3.56 | 3.09 | + | 1.70E-03 | 2.58E-02 | | [regulation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043281) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043281&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043281&list=upload_1&organism=Homo%20sapiens) | 9.51 | 2.84 | + | 4.73E-06 | 1.59E-04 | | [regulation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:2000116) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000116&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000116&list=upload_1&organism=Homo%20sapiens) | 10.92 | 2.65 | + | 6.99E-06 | 2.25E-04 | | [regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052548) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&list=upload_1&organism=Homo%20sapiens) | 19.29 | 1.92 | + | 4.46E-04 | 8.56E-03 | | [regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052547) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&list=upload_1&organism=Homo%20sapiens) | 20.66 | 1.94 | + | 1.89E-04 | 4.13E-03 | | [negative regulation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:2000117) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000117&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000117&list=upload_1&organism=Homo%20sapiens) | 4.16 | 2.89 | + | 1.79E-03 | 2.69E-02 | | [regulation of ATP metabolic process](http://amigo.geneontology.org/amigo/term/GO:1903578) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903578&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903578&list=upload_1&organism=Homo%20sapiens) | 3.24 | 3.08 | + | 2.74E-03 | 3.82E-02 | | [regulation of purine nucleotide metabolic process](http://amigo.geneontology.org/amigo/term/GO:1900542) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900542&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900542&list=upload_1&organism=Homo%20sapiens) | 4.16 | 2.89 | + | 1.79E-03 | 2.68E-02 | | [regulation of nucleotide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006140) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006140&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006140&list=upload_1&organism=Homo%20sapiens) | 4.43 | 2.93 | + | 1.03E-03 | 1.67E-02 | | [heart contraction](http://amigo.geneontology.org/amigo/term/GO:0060047) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060047&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060047&list=upload_1&organism=Homo%20sapiens) | 4.25 | 3.06 | + | 7.24E-04 | 1.27E-02 | | [heart process](http://amigo.geneontology.org/amigo/term/GO:0003015) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003015&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003015&list=upload_1&organism=Homo%20sapiens) | 4.98 | 3.01 | + | 3.39E-04 | 6.77E-03 | | [circulatory system process](http://amigo.geneontology.org/amigo/term/GO:0003013) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003013&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003013&list=upload_1&organism=Homo%20sapiens) | 22.76 | 1.76 | + | 1.21E-03 | 1.93E-02 | | [system process](http://amigo.geneontology.org/amigo/term/GO:0003008) | [2079](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003008&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003008&list=upload_1&organism=Homo%20sapiens) | 95.02 | 1.31 | + | 2.96E-03 | 4.05E-02 | | [blood circulation](http://amigo.geneontology.org/amigo/term/GO:0008015) | [408](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008015&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008015&list=upload_1&organism=Homo%20sapiens) | 18.65 | 1.93 | + | 3.72E-04 | 7.35E-03 | | [protein import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0006606) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006606&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006606&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.04 | + | 1.95E-04 | 4.24E-03 | | [protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:0034504) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&list=upload_1&organism=Homo%20sapiens) | 8.87 | 2.37 | + | 5.70E-04 | 1.05E-02 | | [import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0051170) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051170&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051170&list=upload_1&organism=Homo%20sapiens) | 5.44 | 3.13 | + | 9.32E-05 | 2.26E-03 | | [response to estrogen](http://amigo.geneontology.org/amigo/term/GO:0043627) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043627&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043627&list=upload_1&organism=Homo%20sapiens) | 3.29 | 3.04 | + | 3.00E-03 | 4.11E-02 | | [peptide hormone secretion](http://amigo.geneontology.org/amigo/term/GO:0030072) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030072&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030072&list=upload_1&organism=Homo%20sapiens) | 3.29 | 3.04 | + | 3.00E-03 | 4.10E-02 | | [hormone secretion](http://amigo.geneontology.org/amigo/term/GO:0046879) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046879&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046879&list=upload_1&organism=Homo%20sapiens) | 4.25 | 2.82 | + | 2.11E-03 | 3.07E-02 | | [regulation of neural precursor cell proliferation](http://amigo.geneontology.org/amigo/term/GO:2000177) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000177&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000177&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.03 | + | 7.92E-04 | 1.36E-02 | | [response to unfolded protein](http://amigo.geneontology.org/amigo/term/GO:0006986) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006986&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006986&list=upload_1&organism=Homo%20sapiens) | 5.62 | 3.02 | + | 1.34E-04 | 3.06E-03 | | [response to topologically incorrect protein](http://amigo.geneontology.org/amigo/term/GO:0035966) | [145](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035966&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035966&list=upload_1&organism=Homo%20sapiens) | 6.63 | 3.02 | + | 3.64E-05 | 9.86E-04 | | [aging](http://amigo.geneontology.org/amigo/term/GO:0007568) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007568&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007568&list=upload_1&organism=Homo%20sapiens) | 7.95 | 3.02 | + | 6.30E-06 | 2.07E-04 | | [axo-dendritic transport](http://amigo.geneontology.org/amigo/term/GO:0008088) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008088&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008088&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.00 | + | 3.28E-03 | 4.39E-02 | | [transport along microtubule](http://amigo.geneontology.org/amigo/term/GO:0010970) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&list=upload_1&organism=Homo%20sapiens) | 7.36 | 2.72 | + | 1.34E-04 | 3.07E-03 | | [cytoskeleton-dependent intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0030705) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&list=upload_1&organism=Homo%20sapiens) | 9.10 | 2.42 | + | 3.38E-04 | 6.76E-03 | | [microtubule-based transport](http://amigo.geneontology.org/amigo/term/GO:0099111) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099111&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099111&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.26 | + | 1.35E-03 | 2.12E-02 | | [positive regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032436) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032436&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032436&list=upload_1&organism=Homo%20sapiens) | 4.34 | 2.99 | + | 8.65E-04 | 1.47E-02 | | [positive regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000060) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000060&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000060&list=upload_1&organism=Homo%20sapiens) | 5.07 | 2.76 | + | 1.14E-03 | 1.83E-02 | | [positive regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903052) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903052&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903052&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.40 | + | 3.85E-03 | 4.98E-02 | | [positive regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045862) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&list=upload_1&organism=Homo%20sapiens) | 17.05 | 2.29 | + | 7.14E-06 | 2.28E-04 | | [positive regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901800) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901800&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901800&list=upload_1&organism=Homo%20sapiens) | 5.44 | 2.57 | + | 2.07E-03 | 3.01E-02 | | [positive regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0045732) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045732&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045732&list=upload_1&organism=Homo%20sapiens) | 9.83 | 2.14 | + | 1.96E-03 | 2.90E-02 | | [stem cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0048863) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048863&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048863&list=upload_1&organism=Homo%20sapiens) | 8.36 | 2.99 | + | 4.73E-06 | 1.59E-04 | | [B cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030183) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030183&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030183&list=upload_1&organism=Homo%20sapiens) | 6.03 | 2.98 | + | 1.00E-04 | 2.41E-03 | | [B cell activation](http://amigo.geneontology.org/amigo/term/GO:0042113) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042113&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042113&list=upload_1&organism=Homo%20sapiens) | 8.73 | 2.86 | + | 9.25E-06 | 2.87E-04 | | [ubiquitin-dependent ERAD pathway](http://amigo.geneontology.org/amigo/term/GO:0030433) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030433&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030433&list=upload_1&organism=Homo%20sapiens) | 3.70 | 2.97 | + | 2.22E-03 | 3.21E-02 | | [ERAD pathway](http://amigo.geneontology.org/amigo/term/GO:0036503) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036503&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036503&list=upload_1&organism=Homo%20sapiens) | 4.52 | 2.65 | + | 3.36E-03 | 4.45E-02 | | [proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0010498) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&list=upload_1&organism=Homo%20sapiens) | 17.28 | 2.49 | + | 3.49E-07 | 1.47E-05 | | [proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0051603) | [647](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&list=upload_1&organism=Homo%20sapiens) | 29.57 | 2.16 | + | 5.88E-08 | 2.79E-06 | | [proteolysis](http://amigo.geneontology.org/amigo/term/GO:0006508) | [1266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&list=upload_1&organism=Homo%20sapiens) | 57.86 | 1.73 | + | 3.38E-07 | 1.43E-05 | | [response to endoplasmic reticulum stress](http://amigo.geneontology.org/amigo/term/GO:0034976) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034976&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034976&list=upload_1&organism=Homo%20sapiens) | 10.15 | 2.37 | + | 2.28E-04 | 4.82E-03 | | [proteasome-mediated ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0043161) | [347](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&list=upload_1&organism=Homo%20sapiens) | 15.86 | 2.65 | + | 9.39E-08 | 4.35E-06 | | [ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0006511) | [575](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&list=upload_1&organism=Homo%20sapiens) | 26.28 | 2.25 | + | 5.24E-08 | 2.50E-06 | | [modification-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0019941) | [586](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&list=upload_1&organism=Homo%20sapiens) | 26.78 | 2.28 | + | 2.18E-08 | 1.12E-06 | | [modification-dependent macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0043632) | [598](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&list=upload_1&organism=Homo%20sapiens) | 27.33 | 2.23 | + | 3.31E-08 | 1.66E-06 | | [transforming growth factor beta receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007179) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007179&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007179&list=upload_1&organism=Homo%20sapiens) | 4.39 | 2.96 | + | 9.43E-04 | 1.56E-02 | | [cellular response to transforming growth factor beta stimulus](http://amigo.geneontology.org/amigo/term/GO:0071560) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071560&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071560&list=upload_1&organism=Homo%20sapiens) | 7.04 | 2.98 | + | 2.73E-05 | 7.69E-04 | | [response to transforming growth factor beta](http://amigo.geneontology.org/amigo/term/GO:0071559) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071559&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071559&list=upload_1&organism=Homo%20sapiens) | 7.36 | 2.85 | + | 4.91E-05 | 1.28E-03 | | [cranial skeletal system development](http://amigo.geneontology.org/amigo/term/GO:1904888) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904888&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904888&list=upload_1&organism=Homo%20sapiens) | 3.38 | 2.96 | + | 3.58E-03 | 4.70E-02 | | [regulation of signal transduction by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:1901796) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&list=upload_1&organism=Homo%20sapiens) | 4.75 | 2.95 | + | 6.43E-04 | 1.16E-02 | | [positive regulation of NF-kappaB transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0051092) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051092&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051092&list=upload_1&organism=Homo%20sapiens) | 7.13 | 2.95 | + | 3.24E-05 | 8.97E-04 | | [positive regulation of DNA-binding transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0051091) | [268](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051091&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051091&list=upload_1&organism=Homo%20sapiens) | 12.25 | 2.86 | + | 1.70E-07 | 7.54E-06 | | [regulation of DNA-binding transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0051090) | [438](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051090&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051090&list=upload_1&organism=Homo%20sapiens) | 20.02 | 2.65 | + | 1.59E-09 | 9.34E-08 | | [negative regulation of inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0050728) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050728&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050728&list=upload_1&organism=Homo%20sapiens) | 6.81 | 2.94 | + | 5.14E-05 | 1.34E-03 | | [negative regulation of defense response](http://amigo.geneontology.org/amigo/term/GO:0031348) | [236](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031348&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031348&list=upload_1&organism=Homo%20sapiens) | 10.79 | 2.60 | + | 2.15E-05 | 6.24E-04 | | [regulation of stem cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0072091) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072091&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072091&list=upload_1&organism=Homo%20sapiens) | 3.75 | 2.94 | + | 2.42E-03 | 3.44E-02 | | [cerebellum development](http://amigo.geneontology.org/amigo/term/GO:0021549) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021549&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021549&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.92 | + | 7.00E-04 | 1.24E-02 | | [metencephalon development](http://amigo.geneontology.org/amigo/term/GO:0022037) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022037&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022037&list=upload_1&organism=Homo%20sapiens) | 5.26 | 2.66 | + | 1.55E-03 | 2.37E-02 | | [hindbrain development](http://amigo.geneontology.org/amigo/term/GO:0030902) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030902&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030902&list=upload_1&organism=Homo%20sapiens) | 7.13 | 2.52 | + | 6.33E-04 | 1.15E-02 | | [central nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007417) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&list=upload_1&organism=Homo%20sapiens) | 47.26 | 1.61 | + | 1.09E-04 | 2.59E-03 | | [head development](http://amigo.geneontology.org/amigo/term/GO:0060322) | [823](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&list=upload_1&organism=Homo%20sapiens) | 37.61 | 1.54 | + | 1.80E-03 | 2.68E-02 | | [positive regulation of canonical Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090263) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090263&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090263&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.92 | + | 7.00E-04 | 1.24E-02 | | [regulation of canonical Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0060828) | [255](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060828&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060828&list=upload_1&organism=Homo%20sapiens) | 11.65 | 2.15 | + | 9.36E-04 | 1.55E-02 | | [regulation of Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030111) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030111&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030111&list=upload_1&organism=Homo%20sapiens) | 15.17 | 1.91 | + | 1.62E-03 | 2.47E-02 | | [cellular response to UV](http://amigo.geneontology.org/amigo/term/GO:0034644) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034644&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034644&list=upload_1&organism=Homo%20sapiens) | 4.11 | 2.92 | + | 1.65E-03 | 2.50E-02 | | [cellular response to light stimulus](http://amigo.geneontology.org/amigo/term/GO:0071482) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071482&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071482&list=upload_1&organism=Homo%20sapiens) | 5.30 | 3.21 | + | 7.03E-05 | 1.78E-03 | | [response to light stimulus](http://amigo.geneontology.org/amigo/term/GO:0009416) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009416&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009416&list=upload_1&organism=Homo%20sapiens) | 14.49 | 2.48 | + | 2.43E-06 | 8.53E-05 | | [response to UV](http://amigo.geneontology.org/amigo/term/GO:0009411) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009411&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009411&list=upload_1&organism=Homo%20sapiens) | 6.90 | 3.19 | + | 6.99E-06 | 2.25E-04 | | [protein stabilization](http://amigo.geneontology.org/amigo/term/GO:0050821) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&list=upload_1&organism=Homo%20sapiens) | 9.96 | 2.91 | + | 1.37E-06 | 5.05E-05 | | [regulation of protein stability](http://amigo.geneontology.org/amigo/term/GO:0031647) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&list=upload_1&organism=Homo%20sapiens) | 15.22 | 2.96 | + | 1.15E-09 | 6.98E-08 | | [activation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006919) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006919&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006919&list=upload_1&organism=Homo%20sapiens) | 3.79 | 2.90 | + | 2.64E-03 | 3.71E-02 | | [positive regulation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043280) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043280&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043280&list=upload_1&organism=Homo%20sapiens) | 5.90 | 2.88 | + | 2.23E-04 | 4.73E-03 | | [positive regulation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:2001056) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001056&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001056&list=upload_1&organism=Homo%20sapiens) | 6.76 | 2.81 | + | 1.33E-04 | 3.05E-03 | | [positive regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010950) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010950&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010950&list=upload_1&organism=Homo%20sapiens) | 7.95 | 2.51 | + | 5.05E-04 | 9.41E-03 | | [positive regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010952) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010952&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010952&list=upload_1&organism=Homo%20sapiens) | 8.82 | 2.49 | + | 2.60E-04 | 5.39E-03 | | [negative regulation of response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:2001021) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001021&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001021&list=upload_1&organism=Homo%20sapiens) | 3.79 | 2.90 | + | 2.64E-03 | 3.70E-02 | | [regulation of response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:2001020) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001020&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001020&list=upload_1&organism=Homo%20sapiens) | 14.35 | 2.23 | + | 8.26E-05 | 2.05E-03 | | [protein localization to mitochondrion](http://amigo.geneontology.org/amigo/term/GO:0070585) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070585&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070585&list=upload_1&organism=Homo%20sapiens) | 3.79 | 2.90 | + | 2.64E-03 | 3.70E-02 | | [regulation of cyclin-dependent protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0000079) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&list=upload_1&organism=Homo%20sapiens) | 5.26 | 2.85 | + | 5.64E-04 | 1.04E-02 | | [regulation of cyclin-dependent protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:1904029) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&list=upload_1&organism=Homo%20sapiens) | 5.39 | 2.97 | + | 2.53E-04 | 5.28E-03 | | [regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045859) | [668](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&list=upload_1&organism=Homo%20sapiens) | 30.53 | 2.00 | + | 1.20E-06 | 4.49E-05 | | [regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043549) | [783](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&list=upload_1&organism=Homo%20sapiens) | 35.79 | 2.04 | + | 4.84E-08 | 2.34E-06 | | [regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071900) | [391](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&list=upload_1&organism=Homo%20sapiens) | 17.87 | 2.24 | + | 7.43E-06 | 2.37E-04 | | [positive regulation of developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048639) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048639&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048639&list=upload_1&organism=Homo%20sapiens) | 7.50 | 2.80 | + | 6.24E-05 | 1.60E-03 | | [positive regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0045927) | [260](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045927&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045927&list=upload_1&organism=Homo%20sapiens) | 11.88 | 2.27 | + | 1.97E-04 | 4.28E-03 | | [embryonic placenta development](http://amigo.geneontology.org/amigo/term/GO:0001892) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001892&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001892&list=upload_1&organism=Homo%20sapiens) | 3.93 | 2.80 | + | 3.38E-03 | 4.46E-02 | | [embryonic organ development](http://amigo.geneontology.org/amigo/term/GO:0048568) | [454](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048568&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048568&list=upload_1&organism=Homo%20sapiens) | 20.75 | 2.12 | + | 1.06E-05 | 3.26E-04 | | [in utero embryonic development](http://amigo.geneontology.org/amigo/term/GO:0001701) | [395](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&list=upload_1&organism=Homo%20sapiens) | 18.05 | 2.10 | + | 4.39E-05 | 1.17E-03 | | [chordate embryonic development](http://amigo.geneontology.org/amigo/term/GO:0043009) | [655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043009&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043009&list=upload_1&organism=Homo%20sapiens) | 29.94 | 1.94 | + | 5.89E-06 | 1.94E-04 | | [embryo development ending in birth or egg hatching](http://amigo.geneontology.org/amigo/term/GO:0009792) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&list=upload_1&organism=Homo%20sapiens) | 30.94 | 1.94 | + | 3.57E-06 | 1.22E-04 | | [placenta development](http://amigo.geneontology.org/amigo/term/GO:0001890) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001890&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001890&list=upload_1&organism=Homo%20sapiens) | 6.90 | 2.61 | + | 4.47E-04 | 8.55E-03 | | [regulation of viral genome replication](http://amigo.geneontology.org/amigo/term/GO:0045069) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045069&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045069&list=upload_1&organism=Homo%20sapiens) | 3.98 | 2.77 | + | 3.66E-03 | 4.78E-02 | | [regulation of viral process](http://amigo.geneontology.org/amigo/term/GO:0050792) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050792&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050792&list=upload_1&organism=Homo%20sapiens) | 7.50 | 2.27 | + | 2.82E-03 | 3.90E-02 | | [regulation of circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0042752) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&list=upload_1&organism=Homo%20sapiens) | 5.48 | 2.73 | + | 8.39E-04 | 1.44E-02 | | [positive regulation of inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0050729) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050729&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050729&list=upload_1&organism=Homo%20sapiens) | 6.58 | 2.73 | + | 2.66E-04 | 5.50E-03 | | [positive regulation of defense response](http://amigo.geneontology.org/amigo/term/GO:0031349) | [296](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031349&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031349&list=upload_1&organism=Homo%20sapiens) | 13.53 | 2.44 | + | 8.91E-06 | 2.78E-04 | | [positive regulation of response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0032103) | [455](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032103&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032103&list=upload_1&organism=Homo%20sapiens) | 20.80 | 2.31 | + | 4.02E-07 | 1.67E-05 | | [positive regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070374) | [217](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070374&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070374&list=upload_1&organism=Homo%20sapiens) | 9.92 | 2.72 | + | 9.52E-06 | 2.94E-04 | | [regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070372) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070372&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070372&list=upload_1&organism=Homo%20sapiens) | 13.85 | 2.46 | + | 5.78E-06 | 1.91E-04 | | [regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043408) | [672](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&list=upload_1&organism=Homo%20sapiens) | 30.71 | 2.38 | + | 1.08E-10 | 7.63E-09 | | [positive regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043410) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043410&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043410&list=upload_1&organism=Homo%20sapiens) | 22.12 | 2.40 | + | 3.90E-08 | 1.92E-06 | | [positive regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031398) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031398&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031398&list=upload_1&organism=Homo%20sapiens) | 5.53 | 2.71 | + | 9.05E-04 | 1.52E-02 | | [positive regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903322) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903322&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903322&list=upload_1&organism=Homo%20sapiens) | 6.40 | 3.13 | + | 2.32E-05 | 6.68E-04 | | [double-strand break repair via homologous recombination](http://amigo.geneontology.org/amigo/term/GO:0000724) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000724&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000724&list=upload_1&organism=Homo%20sapiens) | 5.16 | 2.71 | + | 1.33E-03 | 2.10E-02 | | [recombinational repair](http://amigo.geneontology.org/amigo/term/GO:0000725) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000725&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000725&list=upload_1&organism=Homo%20sapiens) | 5.35 | 2.62 | + | 1.79E-03 | 2.68E-02 | | [double-strand break repair](http://amigo.geneontology.org/amigo/term/GO:0006302) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006302&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006302&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.48 | + | 1.92E-04 | 4.20E-03 | | [organelle disassembly](http://amigo.geneontology.org/amigo/term/GO:1903008) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903008&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903008&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.71 | + | 1.96E-03 | 2.90E-02 | | [cellular component disassembly](http://amigo.geneontology.org/amigo/term/GO:0022411) | [318](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&list=upload_1&organism=Homo%20sapiens) | 14.53 | 2.20 | + | 9.31E-05 | 2.26E-03 | | [columnar/cuboidal epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0002065) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002065&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002065&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.71 | + | 1.96E-03 | 2.90E-02 | | [mitotic spindle organization](http://amigo.geneontology.org/amigo/term/GO:0007052) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007052&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007052&list=upload_1&organism=Homo%20sapiens) | 4.43 | 2.71 | + | 2.89E-03 | 3.97E-02 | | [spindle organization](http://amigo.geneontology.org/amigo/term/GO:0007051) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007051&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007051&list=upload_1&organism=Homo%20sapiens) | 7.31 | 2.32 | + | 2.35E-03 | 3.35E-02 | | [microtubule cytoskeleton organization involved in mitosis](http://amigo.geneontology.org/amigo/term/GO:1902850) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902850&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902850&list=upload_1&organism=Homo%20sapiens) | 5.90 | 2.54 | + | 1.62E-03 | 2.47E-02 | | [positive regulation of translation](http://amigo.geneontology.org/amigo/term/GO:0045727) | [146](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045727&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045727&list=upload_1&organism=Homo%20sapiens) | 6.67 | 2.70 | + | 3.10E-04 | 6.29E-03 | | [positive regulation of cellular amide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0034250) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034250&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034250&list=upload_1&organism=Homo%20sapiens) | 7.91 | 2.78 | + | 4.62E-05 | 1.22E-03 | | [mRNA transport](http://amigo.geneontology.org/amigo/term/GO:0051028) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051028&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051028&list=upload_1&organism=Homo%20sapiens) | 6.31 | 2.70 | + | 4.54E-04 | 8.65E-03 | | [stem cell population maintenance](http://amigo.geneontology.org/amigo/term/GO:0019827) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019827&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019827&list=upload_1&organism=Homo%20sapiens) | 5.21 | 2.69 | + | 1.44E-03 | 2.23E-02 | | [maintenance of cell number](http://amigo.geneontology.org/amigo/term/GO:0098727) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098727&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098727&list=upload_1&organism=Homo%20sapiens) | 5.39 | 2.78 | + | 7.18E-04 | 1.26E-02 | | [cellular monovalent inorganic cation homeostasis](http://amigo.geneontology.org/amigo/term/GO:0030004) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030004&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030004&list=upload_1&organism=Homo%20sapiens) | 5.26 | 2.66 | + | 1.55E-03 | 2.37E-02 | | [monovalent inorganic cation homeostasis](http://amigo.geneontology.org/amigo/term/GO:0055067) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055067&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055067&list=upload_1&organism=Homo%20sapiens) | 6.90 | 2.46 | + | 1.66E-03 | 2.52E-02 | | [cellular response to interferon-gamma](http://amigo.geneontology.org/amigo/term/GO:0071346) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071346&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071346&list=upload_1&organism=Homo%20sapiens) | 4.89 | 2.66 | + | 2.28E-03 | 3.26E-02 | | [response to interferon-gamma](http://amigo.geneontology.org/amigo/term/GO:0034341) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034341&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034341&list=upload_1&organism=Homo%20sapiens) | 5.94 | 2.52 | + | 1.74E-03 | 2.62E-02 | | [myeloid cell homeostasis](http://amigo.geneontology.org/amigo/term/GO:0002262) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002262&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002262&list=upload_1&organism=Homo%20sapiens) | 6.03 | 2.65 | + | 7.72E-04 | 1.34E-02 | | [homeostasis of number of cells](http://amigo.geneontology.org/amigo/term/GO:0048872) | [257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048872&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048872&list=upload_1&organism=Homo%20sapiens) | 11.75 | 2.30 | + | 1.76E-04 | 3.90E-03 | | [positive regulation of protein secretion](http://amigo.geneontology.org/amigo/term/GO:0050714) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050714&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050714&list=upload_1&organism=Homo%20sapiens) | 6.03 | 2.65 | + | 7.72E-04 | 1.33E-02 | | [regulation of protein secretion](http://amigo.geneontology.org/amigo/term/GO:0050708) | [250](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050708&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050708&list=upload_1&organism=Homo%20sapiens) | 11.43 | 2.19 | + | 5.23E-04 | 9.71E-03 | | [regulation of secretion by cell](http://amigo.geneontology.org/amigo/term/GO:1903530) | [566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903530&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903530&list=upload_1&organism=Homo%20sapiens) | 25.87 | 1.89 | + | 5.21E-05 | 1.36E-03 | | [regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051046) | [623](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051046&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051046&list=upload_1&organism=Homo%20sapiens) | 28.47 | 1.79 | + | 1.62E-04 | 3.60E-03 | | [positive regulation of secretion by cell](http://amigo.geneontology.org/amigo/term/GO:1903532) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903532&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903532&list=upload_1&organism=Homo%20sapiens) | 12.98 | 2.00 | + | 1.73E-03 | 2.61E-02 | | [positive regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051047) | [311](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&list=upload_1&organism=Homo%20sapiens) | 14.21 | 1.90 | + | 2.77E-03 | 3.84E-02 | | [cellular response to interleukin-1](http://amigo.geneontology.org/amigo/term/GO:0071347) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071347&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071347&list=upload_1&organism=Homo%20sapiens) | 4.52 | 2.65 | + | 3.36E-03 | 4.45E-02 | | [response to interleukin-1](http://amigo.geneontology.org/amigo/term/GO:0070555) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070555&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070555&list=upload_1&organism=Homo%20sapiens) | 5.76 | 2.95 | + | 1.73E-04 | 3.85E-03 | | [regulation of carbohydrate biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0043255) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043255&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043255&list=upload_1&organism=Homo%20sapiens) | 4.52 | 2.65 | + | 3.36E-03 | 4.44E-02 | | [regulation of carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006109) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006109&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006109&list=upload_1&organism=Homo%20sapiens) | 8.64 | 2.20 | + | 2.94E-03 | 4.03E-02 | | [response to nutrient](http://amigo.geneontology.org/amigo/term/GO:0007584) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007584&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007584&list=upload_1&organism=Homo%20sapiens) | 6.81 | 2.64 | + | 3.87E-04 | 7.56E-03 | | [negative regulation of DNA-binding transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0043433) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043433&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043433&list=upload_1&organism=Homo%20sapiens) | 7.95 | 2.64 | + | 1.33E-04 | 3.06E-03 | | [cellular response to topologically incorrect protein](http://amigo.geneontology.org/amigo/term/GO:0035967) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035967&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035967&list=upload_1&organism=Homo%20sapiens) | 4.57 | 2.63 | + | 3.62E-03 | 4.74E-02 | | [positive regulation of MAP kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043406) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043406&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043406&list=upload_1&organism=Homo%20sapiens) | 5.35 | 2.62 | + | 1.79E-03 | 2.68E-02 | | [positive regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071902) | [232](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071902&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071902&list=upload_1&organism=Homo%20sapiens) | 10.60 | 2.17 | + | 9.91E-04 | 1.62E-02 | | [positive regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045860) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&list=upload_1&organism=Homo%20sapiens) | 19.29 | 2.02 | + | 1.12E-04 | 2.64E-03 | | [positive regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0033674) | [499](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&list=upload_1&organism=Homo%20sapiens) | 22.81 | 2.10 | + | 5.84E-06 | 1.93E-04 | | [regulation of MAP kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043405) | [184](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&list=upload_1&organism=Homo%20sapiens) | 8.41 | 2.38 | + | 7.55E-04 | 1.32E-02 | | [regulation of macroautophagy](http://amigo.geneontology.org/amigo/term/GO:0016241) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016241&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016241&list=upload_1&organism=Homo%20sapiens) | 7.31 | 2.60 | + | 3.28E-04 | 6.58E-03 | | [response to xenobiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009410) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&list=upload_1&organism=Homo%20sapiens) | 19.33 | 2.59 | + | 8.53E-09 | 4.59E-07 | | [entry into host](http://amigo.geneontology.org/amigo/term/GO:0044409) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044409&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044409&list=upload_1&organism=Homo%20sapiens) | 5.03 | 2.59 | + | 2.84E-03 | 3.91E-02 | | [biological process involved in interaction with host](http://amigo.geneontology.org/amigo/term/GO:0051701) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&list=upload_1&organism=Homo%20sapiens) | 7.13 | 2.52 | + | 6.33E-04 | 1.15E-02 | | [regulation of osteoblast differentiation](http://amigo.geneontology.org/amigo/term/GO:0045667) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045667&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045667&list=upload_1&organism=Homo%20sapiens) | 5.80 | 2.58 | + | 1.41E-03 | 2.20E-02 | | [mitotic cell cycle checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0007093) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007093&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007093&list=upload_1&organism=Homo%20sapiens) | 5.80 | 2.58 | + | 1.41E-03 | 2.19E-02 | | [negative regulation of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045930) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045930&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045930&list=upload_1&organism=Homo%20sapiens) | 9.73 | 2.36 | + | 3.14E-04 | 6.35E-03 | | [negative regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045786) | [359](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045786&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045786&list=upload_1&organism=Homo%20sapiens) | 16.41 | 2.13 | + | 8.37E-05 | 2.07E-03 | | [cell cycle checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0000075) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000075&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000075&list=upload_1&organism=Homo%20sapiens) | 7.18 | 2.37 | + | 2.07E-03 | 3.01E-02 | | [negative regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901988) | [224](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901988&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901988&list=upload_1&organism=Homo%20sapiens) | 10.24 | 2.25 | + | 7.40E-04 | 1.29E-02 | | [negative regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0010948) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010948&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010948&list=upload_1&organism=Homo%20sapiens) | 12.43 | 2.25 | + | 1.61E-04 | 3.61E-03 | | [protein polyubiquitination](http://amigo.geneontology.org/amigo/term/GO:0000209) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000209&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000209&list=upload_1&organism=Homo%20sapiens) | 10.51 | 2.57 | + | 3.40E-05 | 9.37E-04 | | [purine ribonucleoside triphosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009205) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009205&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009205&list=upload_1&organism=Homo%20sapiens) | 8.32 | 2.52 | + | 3.43E-04 | 6.84E-03 | | [purine nucleoside triphosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009144) | [187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009144&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009144&list=upload_1&organism=Homo%20sapiens) | 8.55 | 2.46 | + | 4.13E-04 | 8.00E-03 | | [nucleoside triphosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009141) | [207](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009141&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009141&list=upload_1&organism=Homo%20sapiens) | 9.46 | 2.22 | + | 1.49E-03 | 2.31E-02 | | [ribonucleoside triphosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009199) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009199&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009199&list=upload_1&organism=Homo%20sapiens) | 8.64 | 2.43 | + | 4.50E-04 | 8.60E-03 | | [negative regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901991) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901991&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901991&list=upload_1&organism=Homo%20sapiens) | 7.59 | 2.50 | + | 7.44E-04 | 1.30E-02 | | [lymphocyte proliferation](http://amigo.geneontology.org/amigo/term/GO:0046651) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046651&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046651&list=upload_1&organism=Homo%20sapiens) | 5.62 | 2.49 | + | 2.73E-03 | 3.80E-02 | | [mononuclear cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0032943) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032943&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032943&list=upload_1&organism=Homo%20sapiens) | 5.80 | 2.76 | + | 5.29E-04 | 9.80E-03 | | [leukocyte proliferation](http://amigo.geneontology.org/amigo/term/GO:0070661) | [145](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070661&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070661&list=upload_1&organism=Homo%20sapiens) | 6.63 | 2.72 | + | 2.87E-04 | 5.87E-03 | | [protein-containing complex disassembly](http://amigo.geneontology.org/amigo/term/GO:0032984) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032984&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032984&list=upload_1&organism=Homo%20sapiens) | 6.12 | 2.45 | + | 3.52E-03 | 4.63E-02 | | [positive regulation of synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0050806) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050806&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050806&list=upload_1&organism=Homo%20sapiens) | 6.17 | 2.43 | + | 3.62E-03 | 4.74E-02 | | [modulation of chemical synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0050804) | [438](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050804&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050804&list=upload_1&organism=Homo%20sapiens) | 20.02 | 1.75 | + | 2.81E-03 | 3.88E-02 | | [regulation of trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099177) | [439](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099177&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099177&list=upload_1&organism=Homo%20sapiens) | 20.06 | 1.74 | + | 2.84E-03 | 3.91E-02 | | [regulation of lipid biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0046890) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046890&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046890&list=upload_1&organism=Homo%20sapiens) | 7.91 | 2.40 | + | 9.64E-04 | 1.59E-02 | | [epithelial tube formation](http://amigo.geneontology.org/amigo/term/GO:0072175) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072175&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072175&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.40 | + | 3.85E-03 | 4.97E-02 | | [tube formation](http://amigo.geneontology.org/amigo/term/GO:0035148) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035148&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035148&list=upload_1&organism=Homo%20sapiens) | 6.95 | 2.30 | + | 3.43E-03 | 4.52E-02 | | [kidney epithelium development](http://amigo.geneontology.org/amigo/term/GO:0072073) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072073&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072073&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.40 | + | 3.85E-03 | 4.97E-02 | | [positive regulation of peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0050731) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050731&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050731&list=upload_1&organism=Homo%20sapiens) | 8.82 | 2.38 | + | 5.43E-04 | 1.00E-02 | | [regulation of peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0050730) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050730&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050730&list=upload_1&organism=Homo%20sapiens) | 11.93 | 2.18 | + | 6.33E-04 | 1.15E-02 | | [positive regulation of angiogenesis](http://amigo.geneontology.org/amigo/term/GO:0045766) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045766&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045766&list=upload_1&organism=Homo%20sapiens) | 7.63 | 2.36 | + | 1.54E-03 | 2.37E-02 | | [positive regulation of vasculature development](http://amigo.geneontology.org/amigo/term/GO:1904018) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904018&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904018&list=upload_1&organism=Homo%20sapiens) | 7.63 | 2.36 | + | 1.54E-03 | 2.36E-02 | | [viral process](http://amigo.geneontology.org/amigo/term/GO:0016032) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&list=upload_1&organism=Homo%20sapiens) | 11.47 | 2.35 | + | 1.46E-04 | 3.33E-03 | | [defense response to virus](http://amigo.geneontology.org/amigo/term/GO:0051607) | [253](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051607&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051607&list=upload_1&organism=Homo%20sapiens) | 11.56 | 2.34 | + | 1.54E-04 | 3.48E-03 | | [defense response to symbiont](http://amigo.geneontology.org/amigo/term/GO:0140546) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140546&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140546&list=upload_1&organism=Homo%20sapiens) | 11.61 | 2.33 | + | 1.59E-04 | 3.57E-03 | | [epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050673) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050673&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050673&list=upload_1&organism=Homo%20sapiens) | 7.77 | 2.32 | + | 1.77E-03 | 2.66E-02 | | [regulation of cytokine-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0001959) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001959&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001959&list=upload_1&organism=Homo%20sapiens) | 6.95 | 2.30 | + | 3.43E-03 | 4.53E-02 | | [regulation of response to cytokine stimulus](http://amigo.geneontology.org/amigo/term/GO:0060759) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060759&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060759&list=upload_1&organism=Homo%20sapiens) | 7.45 | 2.28 | + | 2.70E-03 | 3.77E-02 | | [positive regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051495) | [195](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051495&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051495&list=upload_1&organism=Homo%20sapiens) | 8.91 | 2.24 | + | 1.95E-03 | 2.89E-02 | | [negative regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008285) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&list=upload_1&organism=Homo%20sapiens) | 32.59 | 2.24 | + | 1.22E-09 | 7.30E-08 | | [positive regulation of supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:1902905) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902905&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902905&list=upload_1&organism=Homo%20sapiens) | 8.04 | 2.24 | + | 2.36E-03 | 3.36E-02 | | [negative regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051048) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051048&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051048&list=upload_1&organism=Homo%20sapiens) | 7.63 | 2.23 | + | 3.26E-03 | 4.37E-02 | | [negative regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051051) | [435](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051051&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051051&list=upload_1&organism=Homo%20sapiens) | 19.88 | 1.81 | + | 1.25E-03 | 1.99E-02 | | [regulation of peptide hormone secretion](http://amigo.geneontology.org/amigo/term/GO:0090276) | [187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090276&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090276&list=upload_1&organism=Homo%20sapiens) | 8.55 | 2.22 | + | 2.81E-03 | 3.88E-02 | | [regulation of hormone secretion](http://amigo.geneontology.org/amigo/term/GO:0046883) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046883&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046883&list=upload_1&organism=Homo%20sapiens) | 11.06 | 2.26 | + | 3.80E-04 | 7.45E-03 | | [regulation of peptide secretion](http://amigo.geneontology.org/amigo/term/GO:0002791) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002791&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002791&list=upload_1&organism=Homo%20sapiens) | 8.68 | 2.19 | + | 3.02E-03 | 4.11E-02 | | [regulation of peptide transport](http://amigo.geneontology.org/amigo/term/GO:0090087) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090087&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090087&list=upload_1&organism=Homo%20sapiens) | 8.78 | 2.17 | + | 3.19E-03 | 4.32E-02 | | [negative regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001818) | [286](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001818&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001818&list=upload_1&organism=Homo%20sapiens) | 13.07 | 2.22 | + | 2.21E-04 | 4.70E-03 | | [transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0006366) | [356](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006366&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006366&list=upload_1&organism=Homo%20sapiens) | 16.27 | 2.21 | + | 2.76E-05 | 7.74E-04 | | [DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0006351) | [613](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006351&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006351&list=upload_1&organism=Homo%20sapiens) | 28.02 | 2.11 | + | 3.93E-07 | 1.63E-05 | | [nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0097659) | [614](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097659&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097659&list=upload_1&organism=Homo%20sapiens) | 28.06 | 2.10 | + | 4.04E-07 | 1.67E-05 | | [RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0032774) | [624](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032774&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032774&list=upload_1&organism=Homo%20sapiens) | 28.52 | 2.07 | + | 8.06E-07 | 3.14E-05 | | [mesenchyme development](http://amigo.geneontology.org/amigo/term/GO:0060485) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060485&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060485&list=upload_1&organism=Homo%20sapiens) | 10.92 | 2.20 | + | 6.63E-04 | 1.18E-02 | | [regulation of stress-activated MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0032872) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032872&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032872&list=upload_1&organism=Homo%20sapiens) | 8.68 | 2.19 | + | 3.02E-03 | 4.11E-02 | | [regulation of stress-activated protein kinase signaling cascade](http://amigo.geneontology.org/amigo/term/GO:0070302) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070302&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070302&list=upload_1&organism=Homo%20sapiens) | 8.82 | 2.15 | + | 3.29E-03 | 4.40E-02 | | [positive regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050769) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&list=upload_1&organism=Homo%20sapiens) | 10.56 | 2.18 | + | 9.52E-04 | 1.57E-02 | | [regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051960) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&list=upload_1&organism=Homo%20sapiens) | 20.66 | 1.74 | + | 2.28E-03 | 3.27E-02 | | [regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0060284) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&list=upload_1&organism=Homo%20sapiens) | 23.45 | 1.83 | + | 3.06E-04 | 6.23E-03 | | [regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050767) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&list=upload_1&organism=Homo%20sapiens) | 17.05 | 1.88 | + | 1.26E-03 | 1.99E-02 | | [ameboidal-type cell migration](http://amigo.geneontology.org/amigo/term/GO:0001667) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001667&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001667&list=upload_1&organism=Homo%20sapiens) | 9.19 | 2.18 | + | 2.28E-03 | 3.27E-02 | | [cell migration](http://amigo.geneontology.org/amigo/term/GO:0016477) | [903](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&list=upload_1&organism=Homo%20sapiens) | 41.27 | 1.74 | + | 1.29E-05 | 3.92E-04 | | [cell motility](http://amigo.geneontology.org/amigo/term/GO:0048870) | [1061](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&list=upload_1&organism=Homo%20sapiens) | 48.49 | 1.57 | + | 2.40E-04 | 5.04E-03 | | [regulation of leukocyte migration](http://amigo.geneontology.org/amigo/term/GO:0002685) | [232](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002685&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002685&list=upload_1&organism=Homo%20sapiens) | 10.60 | 2.17 | + | 9.91E-04 | 1.61E-02 | | [cell activation involved in immune response](http://amigo.geneontology.org/amigo/term/GO:0002263) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002263&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002263&list=upload_1&organism=Homo%20sapiens) | 8.78 | 2.17 | + | 3.19E-03 | 4.32E-02 | | [immune effector process](http://amigo.geneontology.org/amigo/term/GO:0002252) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002252&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002252&list=upload_1&organism=Homo%20sapiens) | 21.48 | 1.82 | + | 8.70E-04 | 1.47E-02 | | [mRNA splicing, via spliceosome](http://amigo.geneontology.org/amigo/term/GO:0000398) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000398&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000398&list=upload_1&organism=Homo%20sapiens) | 11.11 | 2.16 | + | 7.83E-04 | 1.35E-02 | | [RNA processing](http://amigo.geneontology.org/amigo/term/GO:0006396) | [868](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006396&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006396&list=upload_1&organism=Homo%20sapiens) | 39.67 | 1.61 | + | 3.91E-04 | 7.64E-03 | | [RNA splicing, via transesterification reactions with bulged adenosine as nucleophile](http://amigo.geneontology.org/amigo/term/GO:0000377) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000377&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000377&list=upload_1&organism=Homo%20sapiens) | 11.11 | 2.16 | + | 7.83E-04 | 1.35E-02 | | [RNA splicing, via transesterification reactions](http://amigo.geneontology.org/amigo/term/GO:0000375) | [247](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000375&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000375&list=upload_1&organism=Homo%20sapiens) | 11.29 | 2.13 | + | 1.33E-03 | 2.10E-02 | | [RNA splicing](http://amigo.geneontology.org/amigo/term/GO:0008380) | [368](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008380&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008380&list=upload_1&organism=Homo%20sapiens) | 16.82 | 1.84 | + | 1.86E-03 | 2.76E-02 | | [tissue homeostasis](http://amigo.geneontology.org/amigo/term/GO:0001894) | [245](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&list=upload_1&organism=Homo%20sapiens) | 11.20 | 2.14 | + | 1.28E-03 | 2.03E-02 | | [multicellular organismal homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048871) | [380](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&list=upload_1&organism=Homo%20sapiens) | 17.37 | 1.90 | + | 8.93E-04 | 1.50E-02 | | [muscle contraction](http://amigo.geneontology.org/amigo/term/GO:0006936) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006936&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006936&list=upload_1&organism=Homo%20sapiens) | 10.51 | 2.09 | + | 2.63E-03 | 3.70E-02 | | [muscle system process](http://amigo.geneontology.org/amigo/term/GO:0003012) | [282](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003012&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003012&list=upload_1&organism=Homo%20sapiens) | 12.89 | 2.33 | + | 6.02E-05 | 1.55E-03 | | [immune response-activating cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002429) | [283](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002429&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002429&list=upload_1&organism=Homo%20sapiens) | 12.93 | 2.09 | + | 6.53E-04 | 1.18E-02 | | [immune response-activating signal transduction](http://amigo.geneontology.org/amigo/term/GO:0002757) | [283](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002757&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002757&list=upload_1&organism=Homo%20sapiens) | 12.93 | 2.09 | + | 6.53E-04 | 1.18E-02 | | [activation of immune response](http://amigo.geneontology.org/amigo/term/GO:0002253) | [356](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002253&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002253&list=upload_1&organism=Homo%20sapiens) | 16.27 | 2.03 | + | 3.63E-04 | 7.18E-03 | | [inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0006954) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&list=upload_1&organism=Homo%20sapiens) | 24.68 | 2.07 | + | 4.95E-06 | 1.66E-04 | | [adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains](http://amigo.geneontology.org/amigo/term/GO:0002460) | [265](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002460&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002460&list=upload_1&organism=Homo%20sapiens) | 12.11 | 2.06 | + | 1.23E-03 | 1.96E-02 | | [cell division](http://amigo.geneontology.org/amigo/term/GO:0051301) | [514](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051301&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051301&list=upload_1&organism=Homo%20sapiens) | 23.49 | 2.04 | + | 1.31E-05 | 3.96E-04 | | [non-membrane-bounded organelle assembly](http://amigo.geneontology.org/amigo/term/GO:0140694) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140694&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140694&list=upload_1&organism=Homo%20sapiens) | 14.44 | 2.01 | + | 7.68E-04 | 1.33E-02 | | [negative regulation of transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0000122) | [974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000122&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000122&list=upload_1&organism=Homo%20sapiens) | 44.52 | 2.00 | + | 3.20E-09 | 1.79E-07 | | [regulation of response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0002831) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002831&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002831&list=upload_1&organism=Homo%20sapiens) | 16.64 | 1.98 | + | 4.33E-04 | 8.34E-03 | | [embryonic organ morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048562) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048562&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048562&list=upload_1&organism=Homo%20sapiens) | 13.76 | 1.96 | + | 1.56E-03 | 2.38E-02 | | [heart development](http://amigo.geneontology.org/amigo/term/GO:0007507) | [555](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&list=upload_1&organism=Homo%20sapiens) | 25.37 | 1.93 | + | 4.26E-05 | 1.14E-03 | | [circulatory system development](http://amigo.geneontology.org/amigo/term/GO:0072359) | [909](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&list=upload_1&organism=Homo%20sapiens) | 41.54 | 1.61 | + | 2.84E-04 | 5.83E-03 | | [negative regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001933) | [322](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001933&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001933&list=upload_1&organism=Homo%20sapiens) | 14.72 | 1.90 | + | 2.14E-03 | 3.10E-02 | | [negative regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042326) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&list=upload_1&organism=Homo%20sapiens) | 16.68 | 1.92 | + | 1.08E-03 | 1.74E-02 | | [wound healing](http://amigo.geneontology.org/amigo/term/GO:0042060) | [338](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&list=upload_1&organism=Homo%20sapiens) | 15.45 | 1.88 | + | 2.67E-03 | 3.74E-02 | | [cognition](http://amigo.geneontology.org/amigo/term/GO:0050890) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050890&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050890&list=upload_1&organism=Homo%20sapiens) | 14.49 | 1.86 | + | 3.18E-03 | 4.31E-02 | | [regulation of vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0060627) | [552](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&list=upload_1&organism=Homo%20sapiens) | 25.23 | 1.86 | + | 1.03E-04 | 2.46E-03 | | [negative regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002683) | [434](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002683&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002683&list=upload_1&organism=Homo%20sapiens) | 19.84 | 1.81 | + | 1.23E-03 | 1.97E-02 | | [behavior](http://amigo.geneontology.org/amigo/term/GO:0007610) | [606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&list=upload_1&organism=Homo%20sapiens) | 27.70 | 1.77 | + | 2.86E-04 | 5.86E-03 | | [regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0001558) | [429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&list=upload_1&organism=Homo%20sapiens) | 19.61 | 1.73 | + | 3.70E-03 | 4.82E-02 | | [chromatin organization](http://amigo.geneontology.org/amigo/term/GO:0006325) | [585](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006325&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006325&list=upload_1&organism=Homo%20sapiens) | 26.74 | 1.72 | + | 7.10E-04 | 1.25E-02 | | [cell junction organization](http://amigo.geneontology.org/amigo/term/GO:0034330) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&list=upload_1&organism=Homo%20sapiens) | 22.76 | 1.71 | + | 1.84E-03 | 2.74E-02 | | [detection of chemical stimulus involved in sensory perception of smell](http://amigo.geneontology.org/amigo/term/GO:0050911) | [443](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050911&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050911&list=upload_1&organism=Homo%20sapiens) | 20.25 | .20 | - | 3.18E-05 | 8.82E-04 | | [detection of chemical stimulus involved in sensory perception](http://amigo.geneontology.org/amigo/term/GO:0050907) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050907&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050907&list=upload_1&organism=Homo%20sapiens) | 22.35 | .18 | - | 5.68E-06 | 1.88E-04 | | [detection of chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0009593) | [526](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009593&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009593&list=upload_1&organism=Homo%20sapiens) | 24.04 | .17 | - | 1.40E-06 | 5.17E-05 | | [sensory perception of chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0007606) | [551](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007606&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007606&list=upload_1&organism=Homo%20sapiens) | 25.18 | .16 | - | 4.79E-07 | 1.95E-05 | | [sensory perception of smell](http://amigo.geneontology.org/amigo/term/GO:0007608) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007608&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007608&list=upload_1&organism=Homo%20sapiens) | 21.48 | .19 | - | 1.13E-05 | 3.46E-04 | | Unclassified | [2725](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&list=upload_1&organism=Homo%20sapiens) | 124.54 | .15 | - | 1.57E-33 | 2.05E-30 | |

Bottom of Form

|  |
| --- |
| [About](http://pantherdb.org/about.jsp)   |   [Release Information](http://pantherdb.org/releaseInfo.jsp)   |   [Contact Us](http://pantherdb.org/feedback.jsp)   |   [System Requirements](http://pantherdb.org/systemRequirements.jsp)   |   [Privacy Policy](http://pantherdb.org/terms/privacyPolicy.jsp)   |   [Disclaimer](http://pantherdb.org/terms/disclaimer.jsp)     [A picture containing ax, vector graphics, tool  Description automatically generated](https://twitter.com/PANTHER_DB) |
| © Copyright 2023 Paul Thomas All Rights Reserved. |