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| |  | | --- | | 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.** |  |  |  |  |  |  |  |
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|  | 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:;)

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| |  | | --- | | **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:** | | |

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

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|  | Reference list | upload\_1 |
| Uniquely Mapped IDS: | [20589](http://pantherdb.org/tools/gxIdsList.do?reflist=1) out of 20589 | [410](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) out of 732 |
| Unmapped IDs: | [0](http://pantherdb.org/tools/unmappedBinom.jsp?refList=1) | [635](http://pantherdb.org/tools/unmappedBinom.jsp?listName=upload_1) |
| Multiple mapping information: | 0 | [357](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)

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| --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | [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) | | [negative regulation of calcium ion export across plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1905913) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905913&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905913&list=upload_1&organism=Homo%20sapiens) | .14 | 28.13 | + | 8.64E-05 | 2.64E-03 | | [regulation of calcium ion export across plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1905912) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905912&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905912&list=upload_1&organism=Homo%20sapiens) | .14 | 28.13 | + | 8.64E-05 | 2.64E-03 | | [regulation of calcium ion transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:1903169) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903169&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903169&list=upload_1&organism=Homo%20sapiens) | 6.58 | 2.74 | + | 2.34E-04 | 6.13E-03 | | [regulation of calcium ion transport](http://amigo.geneontology.org/amigo/term/GO:0051924) | [264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051924&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051924&list=upload_1&organism=Homo%20sapiens) | 9.39 | 2.13 | + | 2.53E-03 | 4.33E-02 | | [regulation of metal ion transport](http://amigo.geneontology.org/amigo/term/GO:0010959) | [410](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010959&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010959&list=upload_1&organism=Homo%20sapiens) | 14.58 | 2.13 | + | 1.69E-04 | 4.66E-03 | | [regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051049) | [1766](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&list=upload_1&organism=Homo%20sapiens) | 62.79 | 1.80 | + | 3.59E-09 | 3.16E-07 | | [regulation of localization](http://amigo.geneontology.org/amigo/term/GO:0032879) | [2104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&list=upload_1&organism=Homo%20sapiens) | 74.80 | 1.86 | + | 3.55E-12 | 4.80E-10 | | [regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0050789) | [11806](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&reflist=1) | [550](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&list=upload_1&organism=Homo%20sapiens) | 419.74 | 1.31 | + | 6.60E-23 | 3.04E-20 | | [biological regulation](http://amigo.geneontology.org/amigo/term/GO:0065007) | [12544](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&reflist=1) | [579](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&list=upload_1&organism=Homo%20sapiens) | 445.98 | 1.30 | + | 5.30E-25 | 4.89E-22 | | [regulation of cation transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:1904062) | [384](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904062&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904062&list=upload_1&organism=Homo%20sapiens) | 13.65 | 2.27 | + | 5.42E-05 | 1.77E-03 | | [regulation of ion transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034765) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034765&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034765&list=upload_1&organism=Homo%20sapiens) | 18.13 | 1.82 | + | 1.68E-03 | 3.16E-02 | | [regulation of transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034762) | [593](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034762&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034762&list=upload_1&organism=Homo%20sapiens) | 21.08 | 2.32 | + | 2.06E-07 | 1.30E-05 | | [regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0050794) | [11187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&reflist=1) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&list=upload_1&organism=Homo%20sapiens) | 397.73 | 1.34 | + | 6.33E-24 | 4.14E-21 | | [negative regulation of transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034763) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034763&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034763&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.46 | + | 4.33E-05 | 1.46E-03 | | [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) | [290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&list=upload_1&organism=Homo%20sapiens) | 168.24 | 1.72 | + | 7.59E-23 | 3.40E-20 | | [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) | [320](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&list=upload_1&organism=Homo%20sapiens) | 188.93 | 1.69 | + | 1.15E-24 | 9.46E-22 | | [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) | 15.47 | 2.33 | + | 8.22E-06 | 3.39E-04 | | [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) | .14 | 21.10 | + | 1.27E-03 | 2.51E-02 | | [cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044085) | [2633](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&reflist=1) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&list=upload_1&organism=Homo%20sapiens) | 93.61 | 1.54 | + | 3.14E-07 | 1.85E-05 | | [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) | [298](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&list=upload_1&organism=Homo%20sapiens) | 203.61 | 1.46 | + | 1.88E-13 | 2.86E-11 | | [cellular process](http://amigo.geneontology.org/amigo/term/GO:0009987) | [15044](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&reflist=1) | [657](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&list=upload_1&organism=Homo%20sapiens) | 534.86 | 1.23 | + | 4.96E-28 | 8.64E-25 | | [protein-containing complex organization](http://amigo.geneontology.org/amigo/term/GO:0043933) | [1423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&reflist=1) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&list=upload_1&organism=Homo%20sapiens) | 50.59 | 1.82 | + | 9.83E-08 | 6.59E-06 | | [cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0016043) | [5523](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&reflist=1) | [293](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&list=upload_1&organism=Homo%20sapiens) | 196.36 | 1.49 | + | 3.67E-14 | 6.18E-12 | | [protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0065003) | [1270](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&list=upload_1&organism=Homo%20sapiens) | 45.15 | 1.75 | + | 3.00E-06 | 1.37E-04 | | [cellular component assembly](http://amigo.geneontology.org/amigo/term/GO:0022607) | [2394](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&reflist=1) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&list=upload_1&organism=Homo%20sapiens) | 85.11 | 1.61 | + | 5.14E-08 | 3.75E-06 | | [regulation of type B pancreatic cell development](http://amigo.geneontology.org/amigo/term/GO:2000074) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000074&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000074&list=upload_1&organism=Homo%20sapiens) | .32 | 18.75 | + | 6.16E-06 | 2.62E-04 | | [regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0060284) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&list=upload_1&organism=Homo%20sapiens) | 18.24 | 2.25 | + | 4.40E-06 | 1.96E-04 | | [regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045595) | [1581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&reflist=1) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&list=upload_1&organism=Homo%20sapiens) | 56.21 | 1.85 | + | 4.72E-09 | 4.09E-07 | | [regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0050793) | [2489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&reflist=1) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&list=upload_1&organism=Homo%20sapiens) | 88.49 | 1.84 | + | 4.25E-14 | 7.09E-12 | | [maintenance of postsynaptic density structure](http://amigo.geneontology.org/amigo/term/GO:0099562) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099562&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099562&list=upload_1&organism=Homo%20sapiens) | .21 | 18.75 | + | 2.45E-04 | 6.37E-03 | | [maintenance of postsynaptic specialization structure](http://amigo.geneontology.org/amigo/term/GO:0098880) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098880&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098880&list=upload_1&organism=Homo%20sapiens) | .28 | 14.06 | + | 5.47E-04 | 1.25E-02 | | [postsynapse organization](http://amigo.geneontology.org/amigo/term/GO:0099173) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099173&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099173&list=upload_1&organism=Homo%20sapiens) | 3.24 | 3.71 | + | 2.15E-04 | 5.70E-03 | | [synapse organization](http://amigo.geneontology.org/amigo/term/GO:0050808) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&list=upload_1&organism=Homo%20sapiens) | 10.70 | 2.62 | + | 1.06E-05 | 4.27E-04 | | [cell junction organization](http://amigo.geneontology.org/amigo/term/GO:0034330) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&list=upload_1&organism=Homo%20sapiens) | 17.71 | 2.15 | + | 3.04E-05 | 1.07E-03 | | [organelle organization](http://amigo.geneontology.org/amigo/term/GO:0006996) | [3026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&reflist=1) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&list=upload_1&organism=Homo%20sapiens) | 107.58 | 1.50 | + | 2.70E-07 | 1.61E-05 | | [chaperone-mediated autophagy](http://amigo.geneontology.org/amigo/term/GO:0061684) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&list=upload_1&organism=Homo%20sapiens) | .28 | 17.58 | + | 4.81E-05 | 1.61E-03 | | [autophagy](http://amigo.geneontology.org/amigo/term/GO:0006914) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006914&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006914&list=upload_1&organism=Homo%20sapiens) | 10.77 | 2.32 | + | 1.92E-04 | 5.22E-03 | | [cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044248) | [1625](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&list=upload_1&organism=Homo%20sapiens) | 57.77 | 1.61 | + | 1.17E-05 | 4.61E-04 | | [catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009056) | [1974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&list=upload_1&organism=Homo%20sapiens) | 70.18 | 1.64 | + | 3.42E-07 | 1.99E-05 | | [metabolic process](http://amigo.geneontology.org/amigo/term/GO:0008152) | [8131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&reflist=1) | [410](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&list=upload_1&organism=Homo%20sapiens) | 289.08 | 1.42 | + | 1.09E-18 | 2.84E-16 | | [cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044237) | [6606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&reflist=1) | [342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&list=upload_1&organism=Homo%20sapiens) | 234.86 | 1.46 | + | 6.37E-16 | 1.19E-13 | | [process utilizing autophagic mechanism](http://amigo.geneontology.org/amigo/term/GO:0061919) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061919&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061919&list=upload_1&organism=Homo%20sapiens) | 10.77 | 2.32 | + | 1.92E-04 | 5.20E-03 | | [protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0030163) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&list=upload_1&organism=Homo%20sapiens) | 26.88 | 2.12 | + | 3.46E-07 | 2.01E-05 | | [protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019538) | [3920](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&reflist=1) | [250](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&list=upload_1&organism=Homo%20sapiens) | 139.37 | 1.79 | + | 4.10E-21 | 1.57E-18 | | [macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043170) | [5941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&reflist=1) | [329](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&list=upload_1&organism=Homo%20sapiens) | 211.22 | 1.56 | + | 1.50E-19 | 4.19E-17 | | [organic substance metabolic process](http://amigo.geneontology.org/amigo/term/GO:0071704) | [7697](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&reflist=1) | [390](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&list=upload_1&organism=Homo%20sapiens) | 273.65 | 1.43 | + | 1.17E-17 | 2.70E-15 | | [organonitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901564) | [5013](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&reflist=1) | [286](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&list=upload_1&organism=Homo%20sapiens) | 178.23 | 1.60 | + | 6.84E-18 | 1.60E-15 | | [nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006807) | [6710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&reflist=1) | [351](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&list=upload_1&organism=Homo%20sapiens) | 238.56 | 1.47 | + | 3.70E-17 | 8.07E-15 | | [primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044238) | [7228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&reflist=1) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&list=upload_1&organism=Homo%20sapiens) | 256.98 | 1.41 | + | 3.56E-15 | 6.49E-13 | | [organonitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901565) | [1112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&list=upload_1&organism=Homo%20sapiens) | 39.53 | 1.69 | + | 4.92E-05 | 1.63E-03 | | [organic substance catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901575) | [1679](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&list=upload_1&organism=Homo%20sapiens) | 59.69 | 1.64 | + | 3.14E-06 | 1.43E-04 | | [macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009057) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&list=upload_1&organism=Homo%20sapiens) | 35.16 | 1.88 | + | 2.30E-06 | 1.07E-04 | | [adrenomedullin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:1990410) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990410&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990410&list=upload_1&organism=Homo%20sapiens) | .18 | 16.88 | + | 1.98E-03 | 3.61E-02 | | [calcitonin family receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097646) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097646&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097646&list=upload_1&organism=Homo%20sapiens) | .32 | 15.63 | + | 7.28E-05 | 2.27E-03 | | [signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007165) | [4887](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&reflist=1) | [300](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&list=upload_1&organism=Homo%20sapiens) | 173.75 | 1.73 | + | 5.86E-24 | 4.00E-21 | | [signaling](http://amigo.geneontology.org/amigo/term/GO:0023052) | [5231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&reflist=1) | [312](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&list=upload_1&organism=Homo%20sapiens) | 185.98 | 1.68 | + | 3.87E-23 | 1.84E-20 | | [cell communication](http://amigo.geneontology.org/amigo/term/GO:0007154) | [5342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&reflist=1) | [323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&list=upload_1&organism=Homo%20sapiens) | 189.92 | 1.70 | + | 2.28E-25 | 2.39E-22 | | [cellular response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0051716) | [6569](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&reflist=1) | [389](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&list=upload_1&organism=Homo%20sapiens) | 233.55 | 1.67 | + | 3.28E-31 | 8.56E-28 | | [response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0050896) | [8209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&reflist=1) | [454](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&list=upload_1&organism=Homo%20sapiens) | 291.85 | 1.56 | + | 2.92E-32 | 9.15E-29 | | [positive regulation of cyclic-nucleotide phosphodiesterase activity](http://amigo.geneontology.org/amigo/term/GO:0051343) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051343&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051343&list=upload_1&organism=Homo%20sapiens) | .18 | 16.88 | + | 1.98E-03 | 3.61E-02 | | [positive regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051345) | [589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051345&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051345&list=upload_1&organism=Homo%20sapiens) | 20.94 | 2.34 | + | 1.83E-07 | 1.16E-05 | | [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) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&list=upload_1&organism=Homo%20sapiens) | 42.45 | 2.52 | + | 2.57E-17 | 5.76E-15 | | [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) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&list=upload_1&organism=Homo%20sapiens) | 56.53 | 2.39 | + | 4.96E-20 | 1.50E-17 | | [regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0065009) | [3094](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&reflist=1) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&list=upload_1&organism=Homo%20sapiens) | 110.00 | 2.02 | + | 1.51E-24 | 1.19E-21 | | [regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0050790) | [2373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&reflist=1) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&list=upload_1&organism=Homo%20sapiens) | 84.37 | 2.07 | + | 4.93E-20 | 1.52E-17 | | [regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051336) | [1020](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&list=upload_1&organism=Homo%20sapiens) | 36.26 | 2.12 | + | 2.27E-09 | 2.09E-07 | | [regulation of protein K48-linked ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0061945) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061945&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061945&list=upload_1&organism=Homo%20sapiens) | .18 | 16.88 | + | 1.98E-03 | 3.60E-02 | | [regulation of protein polyubiquitination](http://amigo.geneontology.org/amigo/term/GO:1902914) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902914&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902914&list=upload_1&organism=Homo%20sapiens) | 1.07 | 6.56 | + | 2.29E-04 | 6.03E-03 | | [regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031396) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&list=upload_1&organism=Homo%20sapiens) | 7.50 | 5.33 | + | 4.57E-16 | 8.84E-14 | | [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) | 8.99 | 5.00 | + | 5.36E-17 | 1.14E-14 | | [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) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&list=upload_1&organism=Homo%20sapiens) | 55.57 | 2.65 | + | 5.54E-26 | 6.20E-23 | | [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) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&list=upload_1&organism=Homo%20sapiens) | 91.98 | 2.15 | + | 8.20E-25 | 7.14E-22 | | [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) | [330](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&list=upload_1&organism=Homo%20sapiens) | 208.77 | 1.58 | + | 1.07E-20 | 3.72E-18 | | [regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019222) | [6754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&reflist=1) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&list=upload_1&organism=Homo%20sapiens) | 240.12 | 1.52 | + | 1.96E-20 | 6.68E-18 | | [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) | [335](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&list=upload_1&organism=Homo%20sapiens) | 220.93 | 1.52 | + | 3.95E-18 | 9.53E-16 | | [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) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&list=upload_1&organism=Homo%20sapiens) | 202.97 | 1.56 | + | 1.18E-18 | 3.02E-16 | | [amylin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097647) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097647&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097647&list=upload_1&organism=Homo%20sapiens) | .25 | 16.07 | + | 3.75E-04 | 9.05E-03 | | [cytoplasmic sequestering of NF-kappaB](http://amigo.geneontology.org/amigo/term/GO:0007253) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007253&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007253&list=upload_1&organism=Homo%20sapiens) | .28 | 14.06 | + | 5.47E-04 | 1.25E-02 | | [cytoplasmic sequestering of protein](http://amigo.geneontology.org/amigo/term/GO:0051220) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051220&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051220&list=upload_1&organism=Homo%20sapiens) | .92 | 8.65 | + | 1.53E-05 | 5.83E-04 | | [maintenance of protein location](http://amigo.geneontology.org/amigo/term/GO:0045185) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045185&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045185&list=upload_1&organism=Homo%20sapiens) | 3.41 | 4.10 | + | 2.44E-05 | 8.87E-04 | | [protein localization](http://amigo.geneontology.org/amigo/term/GO:0008104) | [1919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&reflist=1) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&list=upload_1&organism=Homo%20sapiens) | 68.23 | 1.80 | + | 5.50E-10 | 5.23E-08 | | [cellular macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0070727) | [1925](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&reflist=1) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&list=upload_1&organism=Homo%20sapiens) | 68.44 | 1.80 | + | 5.98E-10 | 5.62E-08 | | [cellular localization](http://amigo.geneontology.org/amigo/term/GO:0051641) | [2655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&reflist=1) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&list=upload_1&organism=Homo%20sapiens) | 94.39 | 1.68 | + | 1.13E-10 | 1.19E-08 | | [localization](http://amigo.geneontology.org/amigo/term/GO:0051179) | [4566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&reflist=1) | [246](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&list=upload_1&organism=Homo%20sapiens) | 162.33 | 1.52 | + | 4.16E-12 | 5.58E-10 | | [macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0033036) | [2345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&list=upload_1&organism=Homo%20sapiens) | 83.37 | 1.58 | + | 2.07E-07 | 1.30E-05 | | [maintenance of location](http://amigo.geneontology.org/amigo/term/GO:0051235) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051235&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051235&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.88 | + | 1.33E-04 | 3.77E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043433&list=upload_1&organism=Homo%20sapiens) | 6.19 | 3.23 | + | 1.26E-05 | 4.91E-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) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&list=upload_1&organism=Homo%20sapiens) | 40.89 | 2.18 | + | 3.17E-11 | 3.62E-09 | | [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) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051090&list=upload_1&organism=Homo%20sapiens) | 15.57 | 3.21 | + | 5.73E-12 | 7.37E-10 | | [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) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006355&list=upload_1&organism=Homo%20sapiens) | 122.80 | 1.46 | + | 2.27E-07 | 1.39E-05 | | [regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010468) | [4855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&reflist=1) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&list=upload_1&organism=Homo%20sapiens) | 172.61 | 1.46 | + | 9.71E-11 | 1.04E-08 | | [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) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&list=upload_1&organism=Homo%20sapiens) | 122.87 | 1.46 | + | 2.29E-07 | 1.40E-05 | | [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) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&list=upload_1&organism=Homo%20sapiens) | 123.19 | 1.45 | + | 3.05E-07 | 1.81E-05 | | [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) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&list=upload_1&organism=Homo%20sapiens) | 140.01 | 1.49 | + | 2.40E-09 | 2.17E-07 | | [regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009889) | [4163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&reflist=1) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&list=upload_1&organism=Homo%20sapiens) | 148.01 | 1.54 | + | 8.09E-12 | 9.91E-10 | | [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) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051252&list=upload_1&organism=Homo%20sapiens) | 133.39 | 1.42 | + | 4.19E-07 | 2.37E-05 | | [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) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&list=upload_1&organism=Homo%20sapiens) | 144.59 | 1.45 | + | 1.48E-08 | 1.22E-06 | | [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) | [315](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&list=upload_1&organism=Homo%20sapiens) | 200.77 | 1.57 | + | 6.52E-19 | 1.73E-16 | | [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) | [223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&list=upload_1&organism=Homo%20sapiens) | 145.84 | 1.53 | + | 3.20E-11 | 3.63E-09 | | [negative regulation of NF-kappaB transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0032088) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032088&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032088&list=upload_1&organism=Homo%20sapiens) | 3.20 | 4.38 | + | 1.27E-05 | 4.97E-04 | | [positive regulation of protein deubiquitination](http://amigo.geneontology.org/amigo/term/GO:1903003) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903003&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903003&list=upload_1&organism=Homo%20sapiens) | .21 | 14.06 | + | 2.90E-03 | 4.85E-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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&list=upload_1&organism=Homo%20sapiens) | 13.26 | 2.71 | + | 2.68E-07 | 1.61E-05 | | [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) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&list=upload_1&organism=Homo%20sapiens) | 53.86 | 2.51 | + | 1.21E-21 | 4.75E-19 | | [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) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&list=upload_1&organism=Homo%20sapiens) | 112.85 | 1.80 | + | 1.05E-16 | 2.11E-14 | | [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) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&list=upload_1&organism=Homo%20sapiens) | 137.16 | 1.74 | + | 1.46E-18 | 3.70E-16 | | [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) | [370](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&list=upload_1&organism=Homo%20sapiens) | 224.13 | 1.65 | + | 4.23E-28 | 8.30E-25 | | [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) | [224](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&list=upload_1&organism=Homo%20sapiens) | 125.93 | 1.78 | + | 3.51E-18 | 8.60E-16 | | [regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0030162) | [743](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&list=upload_1&organism=Homo%20sapiens) | 26.42 | 2.42 | + | 5.86E-10 | 5.53E-08 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903322&list=upload_1&organism=Homo%20sapiens) | 4.98 | 5.02 | + | 4.59E-10 | 4.45E-08 | | [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) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&list=upload_1&organism=Homo%20sapiens) | 36.23 | 3.04 | + | 1.44E-23 | 7.77E-21 | | [positive regulation of apoptotic process involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:1902339) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902339&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902339&list=upload_1&organism=Homo%20sapiens) | .21 | 14.06 | + | 2.90E-03 | 4.84E-02 | | [positive regulation of apoptotic process involved in development](http://amigo.geneontology.org/amigo/term/GO:1904747) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904747&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904747&list=upload_1&organism=Homo%20sapiens) | .21 | 14.06 | + | 2.90E-03 | 4.83E-02 | | [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) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&list=upload_1&organism=Homo%20sapiens) | 47.61 | 1.95 | + | 2.74E-09 | 2.47E-07 | | [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) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904748&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.00E-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) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&list=upload_1&organism=Homo%20sapiens) | 52.19 | 2.40 | + | 1.72E-18 | 4.28E-16 | | [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) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&list=upload_1&organism=Homo%20sapiens) | 53.26 | 2.42 | + | 1.33E-19 | 3.80E-17 | | [regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010941) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&list=upload_1&organism=Homo%20sapiens) | 58.80 | 2.36 | + | 3.14E-20 | 1.00E-17 | | [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) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&list=upload_1&organism=Homo%20sapiens) | 17.88 | 2.80 | + | 4.97E-10 | 4.78E-08 | | [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) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&list=upload_1&organism=Homo%20sapiens) | 18.35 | 2.78 | + | 3.98E-10 | 3.90E-08 | | [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) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&list=upload_1&organism=Homo%20sapiens) | 20.73 | 2.85 | + | 6.56E-12 | 8.37E-10 | | [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) | [344](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&list=upload_1&organism=Homo%20sapiens) | 201.59 | 1.71 | + | 6.45E-28 | 1.01E-24 | | [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) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902337&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.03E-02 | | [aggresome assembly](http://amigo.geneontology.org/amigo/term/GO:0070842) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070842&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070842&list=upload_1&organism=Homo%20sapiens) | .21 | 14.06 | + | 2.90E-03 | 4.84E-02 | | [interleukin-17-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097400) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097400&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097400&list=upload_1&organism=Homo%20sapiens) | .32 | 12.50 | + | 7.69E-04 | 1.64E-02 | | [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) | 13.01 | 3.23 | + | 2.56E-10 | 2.56E-08 | | [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) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&list=upload_1&organism=Homo%20sapiens) | 77.29 | 2.15 | + | 2.66E-20 | 8.87E-18 | | [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) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&list=upload_1&organism=Homo%20sapiens) | 25.38 | 2.68 | + | 2.75E-12 | 3.82E-10 | | [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) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&list=upload_1&organism=Homo%20sapiens) | 72.03 | 2.22 | + | 9.22E-21 | 3.29E-18 | | [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) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&list=upload_1&organism=Homo%20sapiens) | 93.01 | 2.04 | + | 4.37E-21 | 1.63E-18 | | [response to chemical](http://amigo.geneontology.org/amigo/term/GO:0042221) | [4060](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&reflist=1) | [250](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&list=upload_1&organism=Homo%20sapiens) | 144.35 | 1.73 | + | 3.18E-19 | 8.76E-17 | | [response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0010033) | [2704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&reflist=1) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&list=upload_1&organism=Homo%20sapiens) | 96.14 | 2.13 | + | 2.99E-25 | 2.93E-22 | | [response to cytokine](http://amigo.geneontology.org/amigo/term/GO:0034097) | [808](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&list=upload_1&organism=Homo%20sapiens) | 28.73 | 2.65 | + | 1.75E-13 | 2.70E-11 | | [cellular response to interleukin-17](http://amigo.geneontology.org/amigo/term/GO:0097398) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097398&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097398&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 3.99E-02 | | [response to interleukin-17](http://amigo.geneontology.org/amigo/term/GO:0097396) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097396&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097396&list=upload_1&organism=Homo%20sapiens) | .50 | 8.04 | + | 2.87E-03 | 4.81E-02 | | [G protein-coupled receptor internalization](http://amigo.geneontology.org/amigo/term/GO:0002031) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002031&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002031&list=upload_1&organism=Homo%20sapiens) | .43 | 11.72 | + | 2.06E-04 | 5.54E-03 | | [receptor internalization](http://amigo.geneontology.org/amigo/term/GO:0031623) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031623&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031623&list=upload_1&organism=Homo%20sapiens) | 2.56 | 5.47 | + | 1.29E-06 | 6.48E-05 | | [receptor-mediated endocytosis](http://amigo.geneontology.org/amigo/term/GO:0006898) | [171](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006898&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006898&list=upload_1&organism=Homo%20sapiens) | 6.08 | 3.13 | + | 3.15E-05 | 1.11E-03 | | [endocytosis](http://amigo.geneontology.org/amigo/term/GO:0006897) | [528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006897&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006897&list=upload_1&organism=Homo%20sapiens) | 18.77 | 2.45 | + | 1.32E-07 | 8.67E-06 | | [vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0016192) | [1382](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&list=upload_1&organism=Homo%20sapiens) | 49.13 | 1.77 | + | 5.32E-07 | 2.90E-05 | | [transport](http://amigo.geneontology.org/amigo/term/GO:0006810) | [3840](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&reflist=1) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&list=upload_1&organism=Homo%20sapiens) | 136.52 | 1.41 | + | 5.31E-07 | 2.91E-05 | | [establishment of localization](http://amigo.geneontology.org/amigo/term/GO:0051234) | [3997](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&reflist=1) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&list=upload_1&organism=Homo%20sapiens) | 142.11 | 1.44 | + | 3.63E-08 | 2.70E-06 | | [desensitization of G protein-coupled receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002029) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002029&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002029&list=upload_1&organism=Homo%20sapiens) | .64 | 7.81 | + | 9.46E-04 | 1.96E-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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&list=upload_1&organism=Homo%20sapiens) | 44.69 | 2.30 | + | 3.45E-14 | 5.88E-12 | | [regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009966) | [2989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&reflist=1) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&list=upload_1&organism=Homo%20sapiens) | 106.27 | 2.28 | + | 5.83E-35 | 4.57E-31 | | [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) | [289](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&list=upload_1&organism=Homo%20sapiens) | 143.42 | 2.02 | + | 8.02E-34 | 3.14E-30 | | [regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010646) | [3369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&reflist=1) | [260](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&list=upload_1&organism=Homo%20sapiens) | 119.78 | 2.17 | + | 9.74E-35 | 5.09E-31 | | [regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023051) | [3381](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&reflist=1) | [262](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&list=upload_1&organism=Homo%20sapiens) | 120.20 | 2.18 | + | 2.70E-35 | 4.23E-31 | | [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) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&list=upload_1&organism=Homo%20sapiens) | 48.25 | 2.22 | + | 8.79E-14 | 1.41E-11 | | [negative regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023057) | [1363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&reflist=1) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&list=upload_1&organism=Homo%20sapiens) | 48.46 | 2.21 | + | 1.03E-13 | 1.63E-11 | | [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) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&list=upload_1&organism=Homo%20sapiens) | 57.60 | 2.05 | + | 5.82E-13 | 8.30E-11 | | [regulation of G protein-coupled receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0008277) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008277&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008277&list=upload_1&organism=Homo%20sapiens) | 4.94 | 3.84 | + | 2.17E-06 | 1.03E-04 | | [negative adaptation of signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0022401) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022401&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022401&list=upload_1&organism=Homo%20sapiens) | .64 | 7.81 | + | 9.46E-04 | 1.96E-02 | | [adaptation of signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0023058) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023058&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023058&list=upload_1&organism=Homo%20sapiens) | .71 | 7.03 | + | 1.41E-03 | 2.72E-02 | | [negative regulation of necroptotic process](http://amigo.geneontology.org/amigo/term/GO:0060546) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060546&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060546&list=upload_1&organism=Homo%20sapiens) | .60 | 11.58 | + | 1.13E-05 | 4.49E-04 | | [negative regulation of programmed necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0062099) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062099&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062099&list=upload_1&organism=Homo%20sapiens) | .64 | 10.94 | + | 1.53E-05 | 5.82E-04 | | [regulation of programmed necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0062098) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062098&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062098&list=upload_1&organism=Homo%20sapiens) | 1.03 | 8.73 | + | 4.21E-06 | 1.88E-04 | | [regulation of necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0010939) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010939&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010939&list=upload_1&organism=Homo%20sapiens) | 1.53 | 5.89 | + | 6.18E-05 | 1.98E-03 | | [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) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&list=upload_1&organism=Homo%20sapiens) | 32.64 | 2.51 | + | 2.16E-13 | 3.25E-11 | | [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) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&list=upload_1&organism=Homo%20sapiens) | 36.34 | 2.31 | + | 6.88E-12 | 8.71E-10 | | [negative regulation of necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0060547) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060547&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060547&list=upload_1&organism=Homo%20sapiens) | .82 | 8.56 | + | 5.58E-05 | 1.81E-03 | | [regulation of necroptotic process](http://amigo.geneontology.org/amigo/term/GO:0060544) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060544&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060544&list=upload_1&organism=Homo%20sapiens) | .92 | 9.74 | + | 2.00E-06 | 9.70E-05 | | [negative regulation of extracellular matrix organization](http://amigo.geneontology.org/amigo/term/GO:1903054) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903054&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903054&list=upload_1&organism=Homo%20sapiens) | .39 | 10.23 | + | 1.39E-03 | 2.70E-02 | | [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) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&list=upload_1&organism=Homo%20sapiens) | 24.53 | 2.32 | + | 1.72E-08 | 1.40E-06 | | [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) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&list=upload_1&organism=Homo%20sapiens) | 84.05 | 1.94 | + | 5.82E-16 | 1.11E-13 | | [regulation of cell communication by electrical coupling involved in cardiac conduction](http://amigo.geneontology.org/amigo/term/GO:1901844) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901844&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901844&list=upload_1&organism=Homo%20sapiens) | .39 | 10.23 | + | 1.39E-03 | 2.70E-02 | | [G protein-coupled receptor signaling pathway involved in heart process](http://amigo.geneontology.org/amigo/term/GO:0086103) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0086103&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0086103&list=upload_1&organism=Homo%20sapiens) | .39 | 10.23 | + | 1.39E-03 | 2.70E-02 | | [heart process](http://amigo.geneontology.org/amigo/term/GO:0003015) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003015&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003015&list=upload_1&organism=Homo%20sapiens) | 3.88 | 2.84 | + | 2.83E-03 | 4.78E-02 | | [circulatory system process](http://amigo.geneontology.org/amigo/term/GO:0003013) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003013&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003013&list=upload_1&organism=Homo%20sapiens) | 17.71 | 2.03 | + | 1.46E-04 | 4.12E-03 | | [multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0032501) | [6581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&reflist=1) | [311](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&list=upload_1&organism=Homo%20sapiens) | 233.97 | 1.33 | + | 4.87E-09 | 4.20E-07 | | [positive regulation of calcium ion import across plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1905665) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905665&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905665&list=upload_1&organism=Homo%20sapiens) | .43 | 9.38 | + | 1.80E-03 | 3.33E-02 | | [positive regulation of calcium ion transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:1904427) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904427&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904427&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.59 | + | 2.82E-04 | 7.12E-03 | | [positive regulation of calcium ion transport](http://amigo.geneontology.org/amigo/term/GO:0051928) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051928&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051928&list=upload_1&organism=Homo%20sapiens) | 4.66 | 2.79 | + | 1.41E-03 | 2.73E-02 | | [positive regulation of ion transport](http://amigo.geneontology.org/amigo/term/GO:0043270) | [290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043270&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043270&list=upload_1&organism=Homo%20sapiens) | 10.31 | 2.23 | + | 7.46E-04 | 1.61E-02 | | [positive regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051050) | [919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&list=upload_1&organism=Homo%20sapiens) | 32.67 | 2.30 | + | 1.56E-10 | 1.58E-08 | | [positive regulation of cation transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:1904064) | [171](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904064&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904064&list=upload_1&organism=Homo%20sapiens) | 6.08 | 2.96 | + | 9.52E-05 | 2.84E-03 | | [positive regulation of ion transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034767) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034767&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034767&list=upload_1&organism=Homo%20sapiens) | 6.61 | 2.72 | + | 2.49E-04 | 6.45E-03 | | [positive regulation of transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034764) | [236](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034764&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034764&list=upload_1&organism=Homo%20sapiens) | 8.39 | 3.34 | + | 1.36E-07 | 8.86E-06 | | [regulation of calcium ion import across plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1905664) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905664&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905664&list=upload_1&organism=Homo%20sapiens) | .50 | 8.04 | + | 2.87E-03 | 4.83E-02 | | [regulation of pinocytosis](http://amigo.geneontology.org/amigo/term/GO:0048548) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048548&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048548&list=upload_1&organism=Homo%20sapiens) | .43 | 9.38 | + | 1.80E-03 | 3.33E-02 | | [regulation of endocytosis](http://amigo.geneontology.org/amigo/term/GO:0030100) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030100&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030100&list=upload_1&organism=Homo%20sapiens) | 7.40 | 2.97 | + | 1.55E-05 | 5.90E-04 | | [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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&list=upload_1&organism=Homo%20sapiens) | 19.63 | 2.29 | + | 9.29E-07 | 4.81E-05 | | [anoikis](http://amigo.geneontology.org/amigo/term/GO:0043276) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043276&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043276&list=upload_1&organism=Homo%20sapiens) | .43 | 9.38 | + | 1.80E-03 | 3.33E-02 | | [apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006915) | [1033](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&list=upload_1&organism=Homo%20sapiens) | 36.73 | 2.97 | + | 1.22E-22 | 5.29E-20 | | [programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0012501) | [1074](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&reflist=1) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&list=upload_1&organism=Homo%20sapiens) | 38.18 | 2.99 | + | 7.02E-24 | 4.23E-21 | | [cell death](http://amigo.geneontology.org/amigo/term/GO:0008219) | [1108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&reflist=1) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&list=upload_1&organism=Homo%20sapiens) | 39.39 | 2.94 | + | 7.58E-24 | 4.40E-21 | | [positive regulation of mitochondrial membrane potential](http://amigo.geneontology.org/amigo/term/GO:0010918) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010918&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010918&list=upload_1&organism=Homo%20sapiens) | .43 | 9.38 | + | 1.80E-03 | 3.32E-02 | | [regulation of membrane potential](http://amigo.geneontology.org/amigo/term/GO:0042391) | [430](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&list=upload_1&organism=Homo%20sapiens) | 15.29 | 2.35 | + | 6.91E-06 | 2.91E-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) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&list=upload_1&organism=Homo%20sapiens) | 130.73 | 1.64 | + | 8.33E-14 | 1.35E-11 | | [positive regulation of membrane potential](http://amigo.geneontology.org/amigo/term/GO:0045838) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045838&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045838&list=upload_1&organism=Homo%20sapiens) | .60 | 8.27 | + | 7.62E-04 | 1.63E-02 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051131&list=upload_1&organism=Homo%20sapiens) | .78 | 8.95 | + | 4.40E-05 | 1.49E-03 | | [negative regulation of interleukin-8 production](http://amigo.geneontology.org/amigo/term/GO:0032717) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032717&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032717&list=upload_1&organism=Homo%20sapiens) | .68 | 8.88 | + | 1.62E-04 | 4.54E-03 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001818&list=upload_1&organism=Homo%20sapiens) | 10.17 | 2.26 | + | 6.85E-04 | 1.51E-02 | | [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) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&list=upload_1&organism=Homo%20sapiens) | 36.94 | 1.81 | + | 5.87E-06 | 2.53E-04 | | [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) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&list=upload_1&organism=Homo%20sapiens) | 97.77 | 1.89 | + | 3.62E-17 | 7.99E-15 | | [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) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&list=upload_1&organism=Homo%20sapiens) | 32.07 | 1.75 | + | 1.18E-04 | 3.41E-03 | | [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) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&list=upload_1&organism=Homo%20sapiens) | 98.27 | 1.76 | + | 3.21E-13 | 4.71E-11 | | [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) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&list=upload_1&organism=Homo%20sapiens) | 106.23 | 1.78 | + | 5.91E-15 | 1.05E-12 | | [regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001817) | [742](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&list=upload_1&organism=Homo%20sapiens) | 26.38 | 2.12 | + | 4.50E-07 | 2.53E-05 | | [regulation of interleukin-8 production](http://amigo.geneontology.org/amigo/term/GO:0032677) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032677&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032677&list=upload_1&organism=Homo%20sapiens) | 3.06 | 3.60 | + | 4.93E-04 | 1.15E-02 | | [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) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051974&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.02E-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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051348&list=upload_1&organism=Homo%20sapiens) | 9.78 | 3.17 | + | 8.34E-08 | 5.76E-06 | | [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) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&list=upload_1&organism=Homo%20sapiens) | 27.77 | 2.12 | + | 1.91E-07 | 1.21E-05 | | [regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051338) | [915](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&list=upload_1&organism=Homo%20sapiens) | 32.53 | 3.01 | + | 8.71E-21 | 3.17E-18 | | [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) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000279&list=upload_1&organism=Homo%20sapiens) | 1.42 | 5.63 | + | 2.08E-04 | 5.56E-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) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010558&list=upload_1&organism=Homo%20sapiens) | 54.50 | 1.60 | + | 3.41E-05 | 1.19E-03 | | [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) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009890&list=upload_1&organism=Homo%20sapiens) | 57.74 | 1.63 | + | 6.17E-06 | 2.61E-04 | | [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) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045934&list=upload_1&organism=Homo%20sapiens) | 55.53 | 1.60 | + | 2.15E-05 | 7.92E-04 | | [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) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&list=upload_1&organism=Homo%20sapiens) | 85.65 | 1.86 | + | 6.55E-14 | 1.07E-11 | | [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) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&list=upload_1&organism=Homo%20sapiens) | 80.49 | 1.76 | + | 6.20E-11 | 6.80E-09 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051052&list=upload_1&organism=Homo%20sapiens) | 19.23 | 1.77 | + | 2.28E-03 | 4.02E-02 | | [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) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031327&list=upload_1&organism=Homo%20sapiens) | 56.67 | 1.61 | + | 1.40E-05 | 5.41E-04 | | [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) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000278&list=upload_1&organism=Homo%20sapiens) | 4.44 | 4.05 | + | 2.06E-06 | 9.94E-05 | | [regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051972) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&list=upload_1&organism=Homo%20sapiens) | 1.78 | 6.19 | + | 6.33E-06 | 2.68E-04 | | [cellular response to mineralocorticoid stimulus](http://amigo.geneontology.org/amigo/term/GO:0071389) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071389&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071389&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.02E-02 | | [response to mineralocorticoid](http://amigo.geneontology.org/amigo/term/GO:0051385) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051385&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051385&list=upload_1&organism=Homo%20sapiens) | 1.32 | 5.32 | + | 6.92E-04 | 1.52E-02 | | [response to corticosteroid](http://amigo.geneontology.org/amigo/term/GO:0031960) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031960&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031960&list=upload_1&organism=Homo%20sapiens) | 5.90 | 2.71 | + | 5.61E-04 | 1.27E-02 | | [response to steroid hormone](http://amigo.geneontology.org/amigo/term/GO:0048545) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&list=upload_1&organism=Homo%20sapiens) | 10.10 | 2.97 | + | 4.79E-07 | 2.67E-05 | | [response to hormone](http://amigo.geneontology.org/amigo/term/GO:0009725) | [767](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&list=upload_1&organism=Homo%20sapiens) | 27.27 | 2.60 | + | 2.20E-12 | 3.08E-10 | | [response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0009719) | [1371](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&list=upload_1&organism=Homo%20sapiens) | 48.74 | 2.17 | + | 3.74E-13 | 5.37E-11 | | [response to lipid](http://amigo.geneontology.org/amigo/term/GO:0033993) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&list=upload_1&organism=Homo%20sapiens) | 29.97 | 2.40 | + | 4.98E-11 | 5.58E-09 | | [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) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&list=upload_1&organism=Homo%20sapiens) | 31.25 | 2.37 | + | 5.77E-11 | 6.38E-09 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071383&list=upload_1&organism=Homo%20sapiens) | 5.40 | 3.15 | + | 7.52E-05 | 2.34E-03 | | [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) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&list=upload_1&organism=Homo%20sapiens) | 18.27 | 2.35 | + | 7.72E-07 | 4.06E-05 | | [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) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032870&list=upload_1&organism=Homo%20sapiens) | 17.39 | 3.05 | + | 7.88E-12 | 9.73E-10 | | [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) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&list=upload_1&organism=Homo%20sapiens) | 39.36 | 2.21 | + | 2.50E-11 | 2.91E-09 | | [cellular response to lipid](http://amigo.geneontology.org/amigo/term/GO:0071396) | [519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&list=upload_1&organism=Homo%20sapiens) | 18.45 | 2.49 | + | 6.42E-08 | 4.54E-06 | | [protein transport along microtubule](http://amigo.geneontology.org/amigo/term/GO:0098840) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098840&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098840&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.02E-02 | | [microtubule-based protein transport](http://amigo.geneontology.org/amigo/term/GO:0099118) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099118&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099118&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.00E-02 | | [protein transport](http://amigo.geneontology.org/amigo/term/GO:0015031) | [1179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&list=upload_1&organism=Homo%20sapiens) | 41.92 | 1.67 | + | 5.48E-05 | 1.79E-03 | | [establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0045184) | [1267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&list=upload_1&organism=Homo%20sapiens) | 45.05 | 1.75 | + | 2.87E-06 | 1.32E-04 | | [nitrogen compound transport](http://amigo.geneontology.org/amigo/term/GO:0071705) | [1589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&reflist=1) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&list=upload_1&organism=Homo%20sapiens) | 56.49 | 1.49 | + | 4.44E-04 | 1.05E-02 | | [organic substance transport](http://amigo.geneontology.org/amigo/term/GO:0071702) | [1964](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&reflist=1) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&list=upload_1&organism=Homo%20sapiens) | 69.83 | 1.39 | + | 1.41E-03 | 2.72E-02 | | [microtubule-based process](http://amigo.geneontology.org/amigo/term/GO:0007017) | [809](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&list=upload_1&organism=Homo%20sapiens) | 28.76 | 1.67 | + | 1.03E-03 | 2.09E-02 | | [transport along microtubule](http://amigo.geneontology.org/amigo/term/GO:0010970) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&list=upload_1&organism=Homo%20sapiens) | 5.72 | 2.45 | + | 2.94E-03 | 4.84E-02 | | [cytoskeleton-dependent intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0030705) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&list=upload_1&organism=Homo%20sapiens) | 7.08 | 2.54 | + | 5.25E-04 | 1.21E-02 | | [intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0046907) | [1360](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&reflist=1) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&list=upload_1&organism=Homo%20sapiens) | 48.35 | 1.53 | + | 5.15E-04 | 1.19E-02 | | [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) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051649&list=upload_1&organism=Homo%20sapiens) | 62.29 | 1.67 | + | 6.47E-07 | 3.50E-05 | | [intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0006886) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&list=upload_1&organism=Homo%20sapiens) | 24.25 | 1.98 | + | 1.74E-05 | 6.56E-04 | | [regulation of nucleotide-binding oligomerization domain containing signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0070424) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070424&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070424&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.01E-02 | | [regulation of pattern recognition receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0062207) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062207&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062207&list=upload_1&organism=Homo%20sapiens) | 3.70 | 2.97 | + | 2.03E-03 | 3.67E-02 | | [regulation of immune response](http://amigo.geneontology.org/amigo/term/GO:0050776) | [935](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&list=upload_1&organism=Homo%20sapiens) | 33.24 | 2.50 | + | 3.08E-13 | 4.56E-11 | | [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) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&list=upload_1&organism=Homo%20sapiens) | 54.04 | 2.11 | + | 2.21E-13 | 3.30E-11 | | [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) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&list=upload_1&organism=Homo%20sapiens) | 61.19 | 2.68 | + | 9.56E-30 | 2.14E-26 | | [negative regulation of release of sequestered calcium ion into cytosol](http://amigo.geneontology.org/amigo/term/GO:0051280) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051280&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051280&list=upload_1&organism=Homo%20sapiens) | .46 | 8.65 | + | 2.29E-03 | 4.01E-02 | | [activation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0097202) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097202&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097202&list=upload_1&organism=Homo%20sapiens) | .71 | 8.44 | + | 2.05E-04 | 5.52E-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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001056&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.23 | + | 5.57E-05 | 1.81E-03 | | [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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000116&list=upload_1&organism=Homo%20sapiens) | 8.50 | 3.53 | + | 1.55E-08 | 1.27E-06 | | [regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052548) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&list=upload_1&organism=Homo%20sapiens) | 15.00 | 2.60 | + | 3.24E-07 | 1.90E-05 | | [regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052547) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&list=upload_1&organism=Homo%20sapiens) | 16.07 | 2.55 | + | 2.13E-07 | 1.33E-05 | | [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) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010950&list=upload_1&organism=Homo%20sapiens) | 6.19 | 2.91 | + | 1.16E-04 | 3.38E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010952&list=upload_1&organism=Homo%20sapiens) | 6.86 | 2.91 | + | 4.86E-05 | 1.62E-03 | | [zymogen activation](http://amigo.geneontology.org/amigo/term/GO:0031638) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031638&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031638&list=upload_1&organism=Homo%20sapiens) | 2.06 | 4.85 | + | 1.03E-04 | 3.03E-03 | | [proteolysis](http://amigo.geneontology.org/amigo/term/GO:0006508) | [1266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&list=upload_1&organism=Homo%20sapiens) | 45.01 | 1.62 | + | 9.51E-05 | 2.84E-03 | | [gene expression](http://amigo.geneontology.org/amigo/term/GO:0010467) | [2314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&reflist=1) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&list=upload_1&organism=Homo%20sapiens) | 82.27 | 1.41 | + | 2.32E-04 | 6.08E-03 | | [positive regulation of protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0031954) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031954&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031954&list=upload_1&organism=Homo%20sapiens) | 1.00 | 8.04 | + | 2.40E-05 | 8.78E-04 | | [regulation of protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0031952) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031952&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031952&list=upload_1&organism=Homo%20sapiens) | 1.56 | 7.03 | + | 2.19E-06 | 1.04E-04 | | [regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001932) | [1105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&reflist=1) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&list=upload_1&organism=Homo%20sapiens) | 39.29 | 2.75 | + | 4.12E-20 | 1.29E-17 | | [regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042325) | [1248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&reflist=1) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&list=upload_1&organism=Homo%20sapiens) | 44.37 | 2.82 | + | 3.68E-24 | 2.62E-21 | | [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) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&list=upload_1&organism=Homo%20sapiens) | 49.92 | 2.76 | + | 5.05E-26 | 6.60E-23 | | [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) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&list=upload_1&organism=Homo%20sapiens) | 49.95 | 2.76 | + | 5.38E-26 | 6.49E-23 | | [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) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&list=upload_1&organism=Homo%20sapiens) | 26.59 | 3.16 | + | 5.01E-19 | 1.36E-16 | | [positive regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042327) | [826](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&list=upload_1&organism=Homo%20sapiens) | 29.37 | 3.23 | + | 4.07E-22 | 1.72E-19 | | [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) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&list=upload_1&organism=Homo%20sapiens) | 32.39 | 3.09 | + | 6.52E-22 | 2.62E-19 | | [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) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&list=upload_1&organism=Homo%20sapiens) | 32.39 | 3.09 | + | 6.52E-22 | 2.69E-19 | | [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) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&list=upload_1&organism=Homo%20sapiens) | 111.00 | 1.80 | + | 1.60E-16 | 3.18E-14 | | [nucleotide-binding oligomerization domain containing signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0070423) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070423&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070423&list=upload_1&organism=Homo%20sapiens) | .50 | 8.04 | + | 2.87E-03 | 4.82E-02 | | [intracellular receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030522) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030522&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030522&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.61 | + | 4.95E-06 | 2.19E-04 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002753&list=upload_1&organism=Homo%20sapiens) | 1.00 | 7.03 | + | 1.59E-04 | 4.45E-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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002221&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.41 | + | 4.33E-04 | 1.03E-02 | | [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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002764&list=upload_1&organism=Homo%20sapiens) | 14.11 | 3.19 | + | 8.36E-11 | 9.04E-09 | | [intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:0035556) | [1511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&list=upload_1&organism=Homo%20sapiens) | 53.72 | 2.59 | + | 1.19E-23 | 6.67E-21 | | [negative regulation of microtubule polymerization](http://amigo.geneontology.org/amigo/term/GO:0031115) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031115&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031115&list=upload_1&organism=Homo%20sapiens) | .50 | 8.04 | + | 2.87E-03 | 4.82E-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) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902904&list=upload_1&organism=Homo%20sapiens) | 5.76 | 2.60 | + | 1.20E-03 | 2.39E-02 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902903&list=upload_1&organism=Homo%20sapiens) | 13.62 | 2.50 | + | 3.61E-06 | 1.63E-04 | | [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) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&list=upload_1&organism=Homo%20sapiens) | 12.27 | 2.28 | + | 1.28E-04 | 3.67E-03 | | [regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0033043) | [1189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&list=upload_1&organism=Homo%20sapiens) | 42.27 | 1.92 | + | 6.94E-08 | 4.84E-06 | | [regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051493) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&list=upload_1&organism=Homo%20sapiens) | 19.20 | 1.98 | + | 1.66E-04 | 4.61E-03 | | [regulation of protein polymerization](http://amigo.geneontology.org/amigo/term/GO:0032271) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032271&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032271&list=upload_1&organism=Homo%20sapiens) | 7.15 | 2.52 | + | 5.86E-04 | 1.32E-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) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043254&list=upload_1&organism=Homo%20sapiens) | 14.65 | 2.59 | + | 4.83E-07 | 2.69E-05 | | [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) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&list=upload_1&organism=Homo%20sapiens) | 33.81 | 1.95 | + | 8.49E-07 | 4.44E-05 | | [negative regulation of protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0031333) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031333&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031333&list=upload_1&organism=Homo%20sapiens) | 5.08 | 3.15 | + | 1.21E-04 | 3.48E-03 | | [intestinal epithelial cell development](http://amigo.geneontology.org/amigo/term/GO:0060576) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060576&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060576&list=upload_1&organism=Homo%20sapiens) | .50 | 8.04 | + | 2.87E-03 | 4.81E-02 | | [tube development](http://amigo.geneontology.org/amigo/term/GO:0035295) | [885](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&list=upload_1&organism=Homo%20sapiens) | 31.46 | 1.72 | + | 2.19E-04 | 5.79E-03 | | [anatomical structure development](http://amigo.geneontology.org/amigo/term/GO:0048856) | [5144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&reflist=1) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&list=upload_1&organism=Homo%20sapiens) | 182.88 | 1.43 | + | 3.01E-10 | 2.98E-08 | | [developmental process](http://amigo.geneontology.org/amigo/term/GO:0032502) | [5677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&reflist=1) | [288](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&list=upload_1&organism=Homo%20sapiens) | 201.83 | 1.43 | + | 1.57E-11 | 1.87E-09 | | [multicellular organism development](http://amigo.geneontology.org/amigo/term/GO:0007275) | [4228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&reflist=1) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&list=upload_1&organism=Homo%20sapiens) | 150.32 | 1.54 | + | 7.55E-12 | 9.48E-10 | | [system development](http://amigo.geneontology.org/amigo/term/GO:0048731) | [3838](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&reflist=1) | [216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&list=upload_1&organism=Homo%20sapiens) | 136.45 | 1.58 | + | 3.49E-12 | 4.80E-10 | | [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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002065&list=upload_1&organism=Homo%20sapiens) | 3.73 | 2.95 | + | 2.17E-03 | 3.86E-02 | | [epithelium development](http://amigo.geneontology.org/amigo/term/GO:0060429) | [1072](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&list=upload_1&organism=Homo%20sapiens) | 38.11 | 1.60 | + | 5.40E-04 | 1.24E-02 | | [cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030154) | [3519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&reflist=1) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&list=upload_1&organism=Homo%20sapiens) | 125.11 | 1.45 | + | 2.12E-07 | 1.32E-05 | | [cellular developmental process](http://amigo.geneontology.org/amigo/term/GO:0048869) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&reflist=1) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&list=upload_1&organism=Homo%20sapiens) | 125.93 | 1.45 | + | 2.99E-07 | 1.77E-05 | | [cell development](http://amigo.geneontology.org/amigo/term/GO:0048468) | [1725](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&list=upload_1&organism=Homo%20sapiens) | 61.33 | 1.73 | + | 8.76E-08 | 5.95E-06 | | [positive regulation of protein polyubiquitination](http://amigo.geneontology.org/amigo/term/GO:1902916) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902916&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902916&list=upload_1&organism=Homo%20sapiens) | .64 | 7.81 | + | 9.46E-04 | 1.96E-02 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031398&list=upload_1&organism=Homo%20sapiens) | 4.30 | 5.11 | + | 3.79E-09 | 3.30E-07 | | [positive regulation of peptidyl-threonine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0010800) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010800&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010800&list=upload_1&organism=Homo%20sapiens) | 1.03 | 7.76 | + | 2.97E-05 | 1.05E-03 | | [regulation of peptidyl-threonine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0010799) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010799&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010799&list=upload_1&organism=Homo%20sapiens) | 1.56 | 5.75 | + | 7.22E-05 | 2.26E-03 | | [positive regulation of phosphoprotein phosphatase activity](http://amigo.geneontology.org/amigo/term/GO:0032516) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032516&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032516&list=upload_1&organism=Homo%20sapiens) | .78 | 7.67 | + | 3.17E-04 | 7.83E-03 | | [positive regulation of phosphatase activity](http://amigo.geneontology.org/amigo/term/GO:0010922) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010922&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010922&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 2.93E-03 | 4.86E-02 | | [positive regulation of dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035306) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035306&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035306&list=upload_1&organism=Homo%20sapiens) | 2.28 | 3.96 | + | 8.60E-04 | 1.81E-02 | | [regulation of dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035303) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.71 | + | 1.80E-03 | 3.32E-02 | | [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) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043666&list=upload_1&organism=Homo%20sapiens) | 2.10 | 3.81 | + | 2.03E-03 | 3.66E-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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035304&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.29 | + | 9.65E-04 | 1.98E-02 | | [positive regulation of protein dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035307) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035307&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035307&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.59 | + | 6.94E-04 | 1.52E-02 | | [response to muramyl dipeptide](http://amigo.geneontology.org/amigo/term/GO:0032495) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032495&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032495&list=upload_1&organism=Homo%20sapiens) | .71 | 7.03 | + | 1.41E-03 | 2.73E-02 | | [response to peptide](http://amigo.geneontology.org/amigo/term/GO:1901652) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&list=upload_1&organism=Homo%20sapiens) | 15.82 | 3.03 | + | 9.17E-11 | 9.84E-09 | | [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) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&list=upload_1&organism=Homo%20sapiens) | 55.14 | 2.09 | + | 3.59E-13 | 5.21E-11 | | [response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0010243) | [968](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&list=upload_1&organism=Homo%20sapiens) | 34.42 | 2.32 | + | 2.12E-11 | 2.48E-09 | | [response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901698) | [1062](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&list=upload_1&organism=Homo%20sapiens) | 37.76 | 2.30 | + | 4.53E-12 | 6.02E-10 | | [necroptotic process](http://amigo.geneontology.org/amigo/term/GO:0070266) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070266&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070266&list=upload_1&organism=Homo%20sapiens) | .71 | 7.03 | + | 1.41E-03 | 2.73E-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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097300&list=upload_1&organism=Homo%20sapiens) | .89 | 7.88 | + | 8.68E-05 | 2.64E-03 | | [necrotic cell death](http://amigo.geneontology.org/amigo/term/GO:0070265) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070265&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070265&list=upload_1&organism=Homo%20sapiens) | 1.00 | 7.03 | + | 1.59E-04 | 4.46E-03 | | [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) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038095&list=upload_1&organism=Homo%20sapiens) | .85 | 7.03 | + | 4.71E-04 | 1.11E-02 | | [Fc receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038093) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038093&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038093&list=upload_1&organism=Homo%20sapiens) | 1.85 | 4.33 | + | 9.82E-04 | 2.01E-02 | | [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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002768&list=upload_1&organism=Homo%20sapiens) | 11.20 | 3.30 | + | 1.70E-09 | 1.57E-07 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033209&list=upload_1&organism=Homo%20sapiens) | 2.03 | 6.91 | + | 1.10E-07 | 7.32E-06 | | [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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071356&list=upload_1&organism=Homo%20sapiens) | 6.33 | 3.16 | + | 1.70E-05 | 6.41E-04 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034612&list=upload_1&organism=Homo%20sapiens) | 7.18 | 3.06 | + | 1.02E-05 | 4.13E-04 | | [cellular response to vascular endothelial growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0035924) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035924&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035924&list=upload_1&organism=Homo%20sapiens) | 1.60 | 6.88 | + | 2.64E-06 | 1.22E-04 | | [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) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&list=upload_1&organism=Homo%20sapiens) | 16.96 | 2.48 | + | 2.87E-07 | 1.71E-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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&list=upload_1&organism=Homo%20sapiens) | 18.03 | 2.50 | + | 8.68E-08 | 5.92E-06 | | [positive regulation of interferon-beta production](http://amigo.geneontology.org/amigo/term/GO:0032728) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032728&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032728&list=upload_1&organism=Homo%20sapiens) | 1.46 | 6.86 | + | 7.64E-06 | 3.19E-04 | | [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) | 2.24 | 4.91 | + | 4.22E-05 | 1.44E-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) | 3.66 | 4.64 | + | 7.44E-07 | 3.97E-05 | | [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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001819&list=upload_1&organism=Homo%20sapiens) | 17.10 | 2.11 | + | 6.71E-05 | 2.13E-03 | | [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) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&list=upload_1&organism=Homo%20sapiens) | 40.92 | 1.91 | + | 1.67E-07 | 1.07E-05 | | [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) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&list=upload_1&organism=Homo%20sapiens) | 53.86 | 1.93 | + | 4.04E-10 | 3.93E-08 | | [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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032648&list=upload_1&organism=Homo%20sapiens) | 2.06 | 5.82 | + | 4.20E-06 | 1.88E-04 | | [negative regulation of NIK/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:1901223) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901223&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901223&list=upload_1&organism=Homo%20sapiens) | 1.03 | 6.79 | + | 1.91E-04 | 5.20E-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) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&list=upload_1&organism=Homo%20sapiens) | 18.42 | 2.66 | + | 5.26E-09 | 4.48E-07 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901222&list=upload_1&organism=Homo%20sapiens) | 3.56 | 4.50 | + | 2.25E-06 | 1.07E-04 | | [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) | .89 | 6.75 | + | 5.67E-04 | 1.28E-02 | | [protein folding](http://amigo.geneontology.org/amigo/term/GO:0006457) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&list=upload_1&organism=Homo%20sapiens) | 7.86 | 3.05 | + | 4.29E-06 | 1.91E-04 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007249&list=upload_1&organism=Homo%20sapiens) | 2.38 | 6.72 | + | 1.92E-08 | 1.51E-06 | | [stimulatory C-type lectin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002223) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002223&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002223&list=upload_1&organism=Homo%20sapiens) | .75 | 6.70 | + | 1.70E-03 | 3.17E-02 | | [cellular response to lectin](http://amigo.geneontology.org/amigo/term/GO:1990858) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990858&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990858&list=upload_1&organism=Homo%20sapiens) | .75 | 6.70 | + | 1.70E-03 | 3.17E-02 | | [response to lectin](http://amigo.geneontology.org/amigo/term/GO:1990840) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990840&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990840&list=upload_1&organism=Homo%20sapiens) | .75 | 6.70 | + | 1.70E-03 | 3.17E-02 | | [response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009607) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&reflist=1) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&list=upload_1&organism=Homo%20sapiens) | 52.55 | 2.00 | + | 5.52E-11 | 6.14E-09 | | [innate immune response activating cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0002220) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002220&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002220&list=upload_1&organism=Homo%20sapiens) | 1.14 | 6.15 | + | 3.22E-04 | 7.93E-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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002429&list=upload_1&organism=Homo%20sapiens) | 10.06 | 3.18 | + | 4.84E-08 | 3.56E-06 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002757&list=upload_1&organism=Homo%20sapiens) | 10.06 | 3.18 | + | 4.84E-08 | 3.54E-06 | | [activation of immune response](http://amigo.geneontology.org/amigo/term/GO:0002253) | [356](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002253&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002253&list=upload_1&organism=Homo%20sapiens) | 12.66 | 3.08 | + | 3.70E-09 | 3.24E-07 | | [immune system process](http://amigo.geneontology.org/amigo/term/GO:0002376) | [2429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&reflist=1) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&list=upload_1&organism=Homo%20sapiens) | 86.36 | 1.76 | + | 1.39E-11 | 1.66E-09 | | [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) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050778&list=upload_1&organism=Homo%20sapiens) | 20.98 | 2.24 | + | 1.16E-06 | 5.91E-05 | | [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) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&list=upload_1&organism=Homo%20sapiens) | 79.03 | 2.34 | + | 4.71E-27 | 6.71E-24 | | [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) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002684&list=upload_1&organism=Homo%20sapiens) | 34.38 | 2.04 | + | 6.28E-08 | 4.50E-06 | | [innate immune response-activating signal transduction](http://amigo.geneontology.org/amigo/term/GO:0002758) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002758&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002758&list=upload_1&organism=Homo%20sapiens) | 1.17 | 5.97 | + | 3.79E-04 | 9.10E-03 | | [activation of innate immune response](http://amigo.geneontology.org/amigo/term/GO:0002218) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002218&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002218&list=upload_1&organism=Homo%20sapiens) | 2.31 | 4.76 | + | 5.44E-05 | 1.78E-03 | | [positive regulation of innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045089) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045089&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045089&list=upload_1&organism=Homo%20sapiens) | 5.12 | 2.73 | + | 1.13E-03 | 2.27E-02 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032103&list=upload_1&organism=Homo%20sapiens) | 16.18 | 2.53 | + | 2.43E-07 | 1.48E-05 | | [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) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&list=upload_1&organism=Homo%20sapiens) | 34.59 | 2.60 | + | 2.91E-15 | 5.37E-13 | | [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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031349&list=upload_1&organism=Homo%20sapiens) | 10.52 | 2.85 | + | 1.06E-06 | 5.43E-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) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031347&list=upload_1&organism=Homo%20sapiens) | 22.83 | 2.98 | + | 2.00E-14 | 3.49E-12 | | [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) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&list=upload_1&organism=Homo%20sapiens) | 48.81 | 2.44 | + | 4.15E-18 | 9.86E-16 | | [regulation of innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045088) | [240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045088&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045088&list=upload_1&organism=Homo%20sapiens) | 8.53 | 3.98 | + | 9.84E-11 | 1.04E-08 | | [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) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002831&list=upload_1&organism=Homo%20sapiens) | 12.94 | 3.32 | + | 6.80E-11 | 7.41E-09 | | [positive regulation of response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0002833) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002833&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002833&list=upload_1&organism=Homo%20sapiens) | 6.72 | 2.38 | + | 2.72E-03 | 4.62E-02 | | [negative regulation of defense response to virus](http://amigo.geneontology.org/amigo/term/GO:0050687) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050687&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050687&list=upload_1&organism=Homo%20sapiens) | .92 | 6.49 | + | 6.77E-04 | 1.49E-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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032102&list=upload_1&organism=Homo%20sapiens) | 13.90 | 2.23 | + | 7.00E-05 | 2.20E-03 | | [regulation of defense response to virus](http://amigo.geneontology.org/amigo/term/GO:0050688) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050688&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050688&list=upload_1&organism=Homo%20sapiens) | 2.70 | 4.07 | + | 1.89E-04 | 5.16E-03 | | [negative regulation of response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0002832) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002832&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002832&list=upload_1&organism=Homo%20sapiens) | 4.05 | 3.45 | + | 1.31E-04 | 3.74E-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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031348&list=upload_1&organism=Homo%20sapiens) | 8.39 | 2.74 | + | 3.30E-05 | 1.15E-03 | | [cellular sodium ion homeostasis](http://amigo.geneontology.org/amigo/term/GO:0006883) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006883&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006883&list=upload_1&organism=Homo%20sapiens) | .78 | 6.39 | + | 2.03E-03 | 3.67E-02 | | [cation homeostasis](http://amigo.geneontology.org/amigo/term/GO:0055080) | [506](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055080&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055080&list=upload_1&organism=Homo%20sapiens) | 17.99 | 1.78 | + | 2.52E-03 | 4.32E-02 | | [chemical homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048878) | [916](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&list=upload_1&organism=Homo%20sapiens) | 32.57 | 1.69 | + | 2.78E-04 | 7.07E-03 | | [homeostatic process](http://amigo.geneontology.org/amigo/term/GO:0042592) | [1424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&list=upload_1&organism=Homo%20sapiens) | 50.63 | 1.88 | + | 1.20E-08 | 9.92E-07 | | [cellular homeostasis](http://amigo.geneontology.org/amigo/term/GO:0019725) | [641](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019725&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019725&list=upload_1&organism=Homo%20sapiens) | 22.79 | 1.71 | + | 1.77E-03 | 3.29E-02 | | [transcytosis](http://amigo.geneontology.org/amigo/term/GO:0045056) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045056&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045056&list=upload_1&organism=Homo%20sapiens) | .78 | 6.39 | + | 2.03E-03 | 3.67E-02 | | [negative regulation of receptor signaling pathway via JAK-STAT](http://amigo.geneontology.org/amigo/term/GO:0046426) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046426&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046426&list=upload_1&organism=Homo%20sapiens) | .78 | 6.39 | + | 2.03E-03 | 3.66E-02 | | [regulation of receptor signaling pathway via JAK-STAT](http://amigo.geneontology.org/amigo/term/GO:0046425) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046425&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046425&list=upload_1&organism=Homo%20sapiens) | 2.81 | 3.56 | + | 9.44E-04 | 1.96E-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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904892&list=upload_1&organism=Homo%20sapiens) | 3.06 | 3.60 | + | 4.93E-04 | 1.15E-02 | | [negative regulation of receptor signaling pathway via STAT](http://amigo.geneontology.org/amigo/term/GO:1904893) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904893&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904893&list=upload_1&organism=Homo%20sapiens) | .89 | 6.75 | + | 5.67E-04 | 1.29E-02 | | [JNK cascade](http://amigo.geneontology.org/amigo/term/GO:0007254) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007254&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007254&list=upload_1&organism=Homo%20sapiens) | 2.06 | 6.30 | + | 7.67E-07 | 4.05E-05 | | [stress-activated MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0051403) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051403&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051403&list=upload_1&organism=Homo%20sapiens) | 2.70 | 6.29 | + | 1.60E-08 | 1.31E-06 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031098&list=upload_1&organism=Homo%20sapiens) | 2.84 | 5.98 | + | 3.09E-08 | 2.34E-06 | | [cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0033554) | [1599](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&reflist=1) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&list=upload_1&organism=Homo%20sapiens) | 56.85 | 2.09 | + | 1.41E-13 | 2.19E-11 | | [response to stress](http://amigo.geneontology.org/amigo/term/GO:0006950) | [3466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&reflist=1) | [225](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&list=upload_1&organism=Homo%20sapiens) | 123.23 | 1.83 | + | 1.18E-19 | 3.43E-17 | | [MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0000165) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&list=upload_1&organism=Homo%20sapiens) | 7.82 | 4.35 | + | 1.20E-11 | 1.46E-09 | | [NIK/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0038061) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038061&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038061&list=upload_1&organism=Homo%20sapiens) | 1.28 | 6.25 | + | 1.10E-04 | 3.22E-03 | | [positive regulation of JUN kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043507) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043507&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043507&list=upload_1&organism=Homo%20sapiens) | 1.49 | 6.03 | + | 5.27E-05 | 1.74E-03 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043406&list=upload_1&organism=Homo%20sapiens) | 4.16 | 4.09 | + | 3.53E-06 | 1.60E-04 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071902&list=upload_1&organism=Homo%20sapiens) | 8.25 | 4.12 | + | 4.36E-11 | 4.91E-09 | | [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) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&list=upload_1&organism=Homo%20sapiens) | 15.00 | 3.33 | + | 1.66E-12 | 2.34E-10 | | [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) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&list=upload_1&organism=Homo%20sapiens) | 17.74 | 3.27 | + | 5.35E-14 | 8.83E-12 | | [regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043549) | [783](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&list=upload_1&organism=Homo%20sapiens) | 27.84 | 2.95 | + | 5.90E-17 | 1.22E-14 | | [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) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&list=upload_1&organism=Homo%20sapiens) | 20.98 | 3.34 | + | 4.20E-17 | 9.02E-15 | | [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) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&list=upload_1&organism=Homo%20sapiens) | 23.75 | 2.99 | + | 4.35E-15 | 7.83E-13 | | [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) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&list=upload_1&organism=Homo%20sapiens) | 13.90 | 3.38 | + | 4.99E-12 | 6.52E-10 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&list=upload_1&organism=Homo%20sapiens) | 6.54 | 3.82 | + | 6.21E-08 | 4.46E-06 | | [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) | 17.21 | 3.08 | + | 5.52E-12 | 7.16E-10 | | [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) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&list=upload_1&organism=Homo%20sapiens) | 35.52 | 2.87 | + | 3.04E-20 | 9.94E-18 | | [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) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&list=upload_1&organism=Homo%20sapiens) | 54.32 | 2.61 | + | 1.60E-24 | 1.20E-21 | | [positive regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023056) | [1701](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&reflist=1) | [150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&list=upload_1&organism=Homo%20sapiens) | 60.48 | 2.48 | + | 6.76E-24 | 4.24E-21 | | [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) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&list=upload_1&organism=Homo%20sapiens) | 60.30 | 2.47 | + | 1.93E-23 | 1.01E-20 | | [regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043408) | [672](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&list=upload_1&organism=Homo%20sapiens) | 23.89 | 3.14 | + | 6.23E-17 | 1.27E-14 | | [regulation of JUN kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043506) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043506&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043506&list=upload_1&organism=Homo%20sapiens) | 2.13 | 5.16 | + | 2.84E-05 | 1.01E-03 | | [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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008625&list=upload_1&organism=Homo%20sapiens) | 1.49 | 6.03 | + | 5.27E-05 | 1.73E-03 | | [extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097191) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&list=upload_1&organism=Homo%20sapiens) | 3.91 | 3.84 | + | 2.57E-05 | 9.21E-04 | | [apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097190) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&list=upload_1&organism=Homo%20sapiens) | 11.23 | 3.12 | + | 1.83E-08 | 1.46E-06 | | [polyol catabolic process](http://amigo.geneontology.org/amigo/term/GO:0046174) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046174&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046174&list=upload_1&organism=Homo%20sapiens) | 1.00 | 6.03 | + | 9.49E-04 | 1.96E-02 | | [regulation of glycogen biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0005979) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005979&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005979&list=upload_1&organism=Homo%20sapiens) | 1.00 | 6.03 | + | 9.49E-04 | 1.96E-02 | | [regulation of glucan biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010962) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010962&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010962&list=upload_1&organism=Homo%20sapiens) | 1.00 | 6.03 | + | 9.49E-04 | 1.95E-02 | | [regulation of polysaccharide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0032885) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032885&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032885&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 2.93E-03 | 4.87E-02 | | [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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043255&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.13 | + | 1.42E-03 | 2.72E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006109&list=upload_1&organism=Homo%20sapiens) | 6.72 | 2.98 | + | 3.71E-05 | 1.28E-03 | | [regulation of polysaccharide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0032881) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032881&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032881&list=upload_1&organism=Homo%20sapiens) | 1.49 | 4.69 | + | 1.34E-03 | 2.61E-02 | | [regulation of cellular carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010675) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010675&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010675&list=upload_1&organism=Homo%20sapiens) | 5.62 | 3.38 | + | 1.16E-05 | 4.55E-04 | | [regulation of glycogen metabolic process](http://amigo.geneontology.org/amigo/term/GO:0070873) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070873&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070873&list=upload_1&organism=Homo%20sapiens) | 1.21 | 5.79 | + | 4.44E-04 | 1.05E-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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&list=upload_1&organism=Homo%20sapiens) | 4.69 | 2.98 | + | 5.15E-04 | 1.19E-02 | | [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) | 1.00 | 6.03 | + | 9.49E-04 | 1.95E-02 | | [negative regulation of muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0014741) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014741&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014741&list=upload_1&organism=Homo%20sapiens) | 1.07 | 5.63 | + | 1.30E-03 | 2.54E-02 | | [regulation of muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0014743) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014743&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014743&list=upload_1&organism=Homo%20sapiens) | 2.03 | 4.44 | + | 4.06E-04 | 9.68E-03 | | [regulation of muscle system process](http://amigo.geneontology.org/amigo/term/GO:0090257) | [236](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090257&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090257&list=upload_1&organism=Homo%20sapiens) | 8.39 | 2.62 | + | 8.89E-05 | 2.69E-03 | | [regulation of system process](http://amigo.geneontology.org/amigo/term/GO:0044057) | [568](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044057&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044057&list=upload_1&organism=Homo%20sapiens) | 20.19 | 2.03 | + | 5.87E-05 | 1.89E-03 | | [regulation of cardiac muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0010611) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010611&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010611&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.69 | + | 2.84E-04 | 7.13E-03 | | [regulation of muscle adaptation](http://amigo.geneontology.org/amigo/term/GO:0043502) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043502&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043502&list=upload_1&organism=Homo%20sapiens) | 2.84 | 3.52 | + | 1.03E-03 | 2.10E-02 | | [regulation of long-term neuronal synaptic plasticity](http://amigo.geneontology.org/amigo/term/GO:0048169) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048169&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048169&list=upload_1&organism=Homo%20sapiens) | .85 | 5.86 | + | 2.82E-03 | 4.77E-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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050804&list=upload_1&organism=Homo%20sapiens) | 15.57 | 2.05 | + | 2.62E-04 | 6.73E-03 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099177&list=upload_1&organism=Homo%20sapiens) | 15.61 | 2.05 | + | 2.68E-04 | 6.87E-03 | | [establishment of monopolar cell polarity](http://amigo.geneontology.org/amigo/term/GO:0061162) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061162&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061162&list=upload_1&organism=Homo%20sapiens) | .85 | 5.86 | + | 2.82E-03 | 4.76E-02 | | [establishment of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0030010) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&list=upload_1&organism=Homo%20sapiens) | 4.52 | 3.54 | + | 3.35E-05 | 1.17E-03 | | [establishment or maintenance of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0007163) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&list=upload_1&organism=Homo%20sapiens) | 7.47 | 3.08 | + | 5.95E-06 | 2.56E-04 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051973&list=upload_1&organism=Homo%20sapiens) | 1.21 | 5.79 | + | 4.44E-04 | 1.05E-02 | | [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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000573&list=upload_1&organism=Homo%20sapiens) | 2.67 | 4.13 | + | 1.70E-04 | 4.70E-03 | | [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) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&list=upload_1&organism=Homo%20sapiens) | 73.17 | 1.69 | + | 1.76E-08 | 1.42E-06 | | [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) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&list=upload_1&organism=Homo%20sapiens) | 72.81 | 1.80 | + | 1.50E-10 | 1.54E-08 | | [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) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&list=upload_1&organism=Homo%20sapiens) | 74.20 | 1.79 | + | 1.42E-10 | 1.46E-08 | | [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) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&list=upload_1&organism=Homo%20sapiens) | 69.08 | 1.74 | + | 7.47E-09 | 6.30E-07 | | [glycogen metabolic process](http://amigo.geneontology.org/amigo/term/GO:0005977) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005977&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005977&list=upload_1&organism=Homo%20sapiens) | 1.92 | 5.73 | + | 1.20E-05 | 4.69E-04 | | [cellular glucan metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006073) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006073&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006073&list=upload_1&organism=Homo%20sapiens) | 1.96 | 5.63 | + | 1.39E-05 | 5.40E-04 | | [cellular polysaccharide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044264) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044264&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044264&list=upload_1&organism=Homo%20sapiens) | 2.77 | 3.97 | + | 2.32E-04 | 6.09E-03 | | [cellular carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044262) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044262&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044262&list=upload_1&organism=Homo%20sapiens) | 6.12 | 3.43 | + | 3.27E-06 | 1.49E-04 | | [carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0005975) | [475](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005975&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005975&list=upload_1&organism=Homo%20sapiens) | 16.89 | 2.01 | + | 2.77E-04 | 7.05E-03 | | [cellular macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044260) | [2518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&reflist=1) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&list=upload_1&organism=Homo%20sapiens) | 89.52 | 1.51 | + | 2.04E-06 | 9.86E-05 | | [polysaccharide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0005976) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005976&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005976&list=upload_1&organism=Homo%20sapiens) | 2.92 | 4.12 | + | 8.89E-05 | 2.69E-03 | | [glucan metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044042) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044042&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044042&list=upload_1&organism=Homo%20sapiens) | 1.96 | 5.63 | + | 1.39E-05 | 5.39E-04 | | [energy reserve metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006112) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006112&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006112&list=upload_1&organism=Homo%20sapiens) | 2.38 | 5.46 | + | 3.13E-06 | 1.43E-04 | | [energy derivation by oxidation of organic compounds](http://amigo.geneontology.org/amigo/term/GO:0015980) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015980&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015980&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.26 | + | 8.34E-04 | 1.76E-02 | | [regulation of type I interferon-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0060338) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060338&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060338&list=upload_1&organism=Homo%20sapiens) | 1.42 | 5.63 | + | 2.08E-04 | 5.57E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001959&list=upload_1&organism=Homo%20sapiens) | 5.40 | 4.07 | + | 1.43E-07 | 9.29E-06 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060759&list=upload_1&organism=Homo%20sapiens) | 5.80 | 3.97 | + | 1.13E-07 | 7.49E-06 | | [regulation of interferon-alpha production](http://amigo.geneontology.org/amigo/term/GO:0032647) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032647&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032647&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.44 | + | 1.50E-03 | 2.86E-02 | | [positive regulation of ubiquitin-protein transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051443) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051443&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051443&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.44 | + | 1.50E-03 | 2.86E-02 | | [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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&list=upload_1&organism=Homo%20sapiens) | 2.03 | 4.44 | + | 4.06E-04 | 9.70E-03 | | [neuron projection regeneration](http://amigo.geneontology.org/amigo/term/GO:0031102) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031102&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031102&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.44 | + | 1.50E-03 | 2.86E-02 | | [neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0031175) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&list=upload_1&organism=Homo%20sapiens) | 24.07 | 1.83 | + | 2.35E-04 | 6.14E-03 | | [neuron development](http://amigo.geneontology.org/amigo/term/GO:0048666) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&list=upload_1&organism=Homo%20sapiens) | 29.97 | 1.94 | + | 5.34E-06 | 2.33E-04 | | [neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0030182) | [1065](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&list=upload_1&organism=Homo%20sapiens) | 37.86 | 1.85 | + | 2.09E-06 | 1.00E-04 | | [generation of neurons](http://amigo.geneontology.org/amigo/term/GO:0048699) | [1134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&list=upload_1&organism=Homo%20sapiens) | 40.32 | 1.81 | + | 2.74E-06 | 1.27E-04 | | [neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0022008) | [1290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&list=upload_1&organism=Homo%20sapiens) | 45.86 | 1.79 | + | 1.06E-06 | 5.45E-05 | | [nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007399) | [2191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&list=upload_1&organism=Homo%20sapiens) | 77.90 | 1.63 | + | 8.57E-08 | 5.87E-06 | | [plasma membrane bounded cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0120036) | [1115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&list=upload_1&organism=Homo%20sapiens) | 39.64 | 1.56 | + | 9.18E-04 | 1.92E-02 | | [cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0030030) | [1161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&list=upload_1&organism=Homo%20sapiens) | 41.28 | 1.53 | + | 1.52E-03 | 2.88E-02 | | [positive regulation of transforming growth factor beta receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030511) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030511&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030511&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.44 | + | 1.50E-03 | 2.85E-02 | | [positive regulation of cellular response to transforming growth factor beta stimulus](http://amigo.geneontology.org/amigo/term/GO:1903846) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903846&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903846&list=upload_1&organism=Homo%20sapiens) | 1.10 | 5.44 | + | 1.50E-03 | 2.85E-02 | | [regulation of cellular response to transforming growth factor beta stimulus](http://amigo.geneontology.org/amigo/term/GO:1903844) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903844&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903844&list=upload_1&organism=Homo%20sapiens) | 5.05 | 3.57 | + | 1.02E-05 | 4.14E-04 | | [regulation of cellular response to growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0090287) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&list=upload_1&organism=Homo%20sapiens) | 11.16 | 2.96 | + | 1.44E-07 | 9.26E-06 | | [regulation of transforming growth factor beta receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0017015) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017015&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017015&list=upload_1&organism=Homo%20sapiens) | 4.94 | 3.64 | + | 7.85E-06 | 3.25E-04 | | [regulation of transmembrane receptor protein serine/threonine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090092) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090092&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090092&list=upload_1&organism=Homo%20sapiens) | 9.78 | 2.66 | + | 1.68E-05 | 6.37E-04 | | [positive regulation of transmembrane receptor protein serine/threonine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090100) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090100&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090100&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.34 | + | 1.82E-04 | 4.97E-03 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031397&list=upload_1&organism=Homo%20sapiens) | 2.95 | 5.42 | + | 2.52E-07 | 1.52E-05 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903321&list=upload_1&organism=Homo%20sapiens) | 3.38 | 4.74 | + | 1.24E-06 | 6.26E-05 | | [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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&list=upload_1&organism=Homo%20sapiens) | 17.88 | 2.52 | + | 7.14E-08 | 4.95E-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) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&list=upload_1&organism=Homo%20sapiens) | 37.05 | 2.27 | + | 1.89E-11 | 2.22E-09 | | [protein peptidyl-prolyl isomerization](http://amigo.geneontology.org/amigo/term/GO:0000413) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000413&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000413&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.27 | + | 1.73E-03 | 3.22E-02 | | [peptidyl-amino acid modification](http://amigo.geneontology.org/amigo/term/GO:0018193) | [882](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&list=upload_1&organism=Homo%20sapiens) | 31.36 | 2.26 | + | 8.18E-10 | 7.64E-08 | | [protein modification process](http://amigo.geneontology.org/amigo/term/GO:0036211) | [2658](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&reflist=1) | [177](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&list=upload_1&organism=Homo%20sapiens) | 94.50 | 1.87 | + | 5.87E-16 | 1.11E-13 | | [macromolecule modification](http://amigo.geneontology.org/amigo/term/GO:0043412) | [2883](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&reflist=1) | [180](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&list=upload_1&organism=Homo%20sapiens) | 102.50 | 1.76 | + | 1.09E-13 | 1.70E-11 | | [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) | 1.92 | 5.21 | + | 6.06E-05 | 1.95E-03 | | [positive regulation of endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010595) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010595&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010595&list=upload_1&organism=Homo%20sapiens) | 3.80 | 3.15 | + | 8.12E-04 | 1.71E-02 | | [regulation of endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010594) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010594&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010594&list=upload_1&organism=Homo%20sapiens) | 6.01 | 3.16 | + | 2.72E-05 | 9.68E-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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010632&list=upload_1&organism=Homo%20sapiens) | 8.14 | 3.19 | + | 8.09E-07 | 4.24E-05 | | [regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030334) | [929](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&list=upload_1&organism=Homo%20sapiens) | 33.03 | 1.88 | + | 6.08E-06 | 2.60E-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) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&list=upload_1&organism=Homo%20sapiens) | 35.16 | 1.85 | + | 5.06E-06 | 2.22E-04 | | [regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040012) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&list=upload_1&organism=Homo%20sapiens) | 36.76 | 1.88 | + | 1.50E-06 | 7.44E-05 | | [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) | 5.37 | 3.35 | + | 2.17E-05 | 7.99E-04 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030335&list=upload_1&organism=Homo%20sapiens) | 18.91 | 2.17 | + | 1.11E-05 | 4.43E-04 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000147&list=upload_1&organism=Homo%20sapiens) | 19.84 | 2.07 | + | 3.07E-05 | 1.08E-03 | | [positive regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040017) | [574](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&list=upload_1&organism=Homo%20sapiens) | 20.41 | 2.06 | + | 2.50E-05 | 9.01E-04 | | [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) | 3.24 | 4.95 | + | 7.47E-07 | 3.97E-05 | | [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) | 1.35 | 5.18 | + | 7.95E-04 | 1.68E-02 | | [regulation of monooxygenase activity](http://amigo.geneontology.org/amigo/term/GO:0032768) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&list=upload_1&organism=Homo%20sapiens) | 1.81 | 4.41 | + | 8.77E-04 | 1.84E-02 | | [regulation of oxidoreductase activity](http://amigo.geneontology.org/amigo/term/GO:0051341) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&list=upload_1&organism=Homo%20sapiens) | 3.59 | 3.06 | + | 1.64E-03 | 3.09E-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) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032212&list=upload_1&organism=Homo%20sapiens) | 1.21 | 4.96 | + | 2.27E-03 | 4.01E-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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032210&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.69 | + | 2.84E-04 | 7.15E-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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904356&list=upload_1&organism=Homo%20sapiens) | 2.20 | 4.54 | + | 1.68E-04 | 4.65E-03 | | [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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010638&list=upload_1&organism=Homo%20sapiens) | 18.06 | 1.94 | + | 4.39E-04 | 1.04E-02 | | [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) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&list=upload_1&organism=Homo%20sapiens) | 37.47 | 2.27 | + | 1.36E-11 | 1.64E-09 | | [extrinsic apoptotic signaling pathway in absence of ligand](http://amigo.geneontology.org/amigo/term/GO:0097192) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097192&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097192&list=upload_1&organism=Homo%20sapiens) | 1.21 | 4.96 | + | 2.27E-03 | 4.01E-02 | | [signal transduction in absence of ligand](http://amigo.geneontology.org/amigo/term/GO:0038034) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038034&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038034&list=upload_1&organism=Homo%20sapiens) | 1.21 | 4.96 | + | 2.27E-03 | 4.02E-02 | | [insulin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0008286) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.91 | + | 4.22E-05 | 1.43E-03 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032869&list=upload_1&organism=Homo%20sapiens) | 5.23 | 4.40 | + | 2.08E-08 | 1.62E-06 | | [response to insulin](http://amigo.geneontology.org/amigo/term/GO:0032868) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032868&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032868&list=upload_1&organism=Homo%20sapiens) | 7.57 | 3.57 | + | 6.75E-08 | 4.73E-06 | | [response to peptide hormone](http://amigo.geneontology.org/amigo/term/GO:0043434) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&list=upload_1&organism=Homo%20sapiens) | 12.91 | 2.94 | + | 1.79E-08 | 1.44E-06 | | [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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071375&list=upload_1&organism=Homo%20sapiens) | 8.57 | 3.50 | + | 1.84E-08 | 1.45E-06 | | [cellular response to peptide](http://amigo.geneontology.org/amigo/term/GO:1901653) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901653&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901653&list=upload_1&organism=Homo%20sapiens) | 10.77 | 3.25 | + | 6.95E-09 | 5.89E-07 | | [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) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071417&list=upload_1&organism=Homo%20sapiens) | 20.55 | 2.34 | + | 2.61E-07 | 1.57E-05 | | [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) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901699&list=upload_1&organism=Homo%20sapiens) | 22.79 | 2.33 | + | 5.77E-08 | 4.17E-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) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&list=upload_1&organism=Homo%20sapiens) | 37.65 | 2.28 | + | 7.87E-12 | 9.79E-10 | | [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) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&list=upload_1&organism=Homo%20sapiens) | 15.07 | 2.59 | + | 3.46E-07 | 2.00E-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) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&list=upload_1&organism=Homo%20sapiens) | 22.75 | 2.37 | + | 2.71E-08 | 2.08E-06 | | [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) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033138&list=upload_1&organism=Homo%20sapiens) | 3.91 | 4.86 | + | 8.93E-08 | 6.03E-06 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033135&list=upload_1&organism=Homo%20sapiens) | 5.08 | 4.13 | + | 2.21E-07 | 1.37E-05 | | ['de novo' protein folding](http://amigo.geneontology.org/amigo/term/GO:0006458) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006458&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006458&list=upload_1&organism=Homo%20sapiens) | 1.46 | 4.80 | + | 1.18E-03 | 2.36E-02 | | [regulation of p38MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:1900744) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900744&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900744&list=upload_1&organism=Homo%20sapiens) | 1.46 | 4.80 | + | 1.18E-03 | 2.36E-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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032872&list=upload_1&organism=Homo%20sapiens) | 6.76 | 4.44 | + | 1.23E-10 | 1.29E-08 | | [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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070302&list=upload_1&organism=Homo%20sapiens) | 6.86 | 4.37 | + | 1.73E-10 | 1.75E-08 | | [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) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&list=upload_1&organism=Homo%20sapiens) | 25.21 | 2.38 | + | 3.45E-09 | 3.07E-07 | | [chaperone-mediated protein folding](http://amigo.geneontology.org/amigo/term/GO:0061077) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061077&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061077&list=upload_1&organism=Homo%20sapiens) | 2.52 | 4.75 | + | 2.54E-05 | 9.15E-04 | | [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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903078&list=upload_1&organism=Homo%20sapiens) | 2.13 | 4.69 | + | 1.32E-04 | 3.76E-03 | | [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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903076&list=upload_1&organism=Homo%20sapiens) | 3.73 | 2.95 | + | 2.17E-03 | 3.87E-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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904375&list=upload_1&organism=Homo%20sapiens) | 4.52 | 2.88 | + | 1.09E-03 | 2.20E-02 | | [regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:0032880) | [850](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&list=upload_1&organism=Homo%20sapiens) | 30.22 | 2.08 | + | 1.32E-07 | 8.69E-06 | | [regulation of cellular localization](http://amigo.geneontology.org/amigo/term/GO:0060341) | [962](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&list=upload_1&organism=Homo%20sapiens) | 34.20 | 2.08 | + | 3.24E-08 | 2.45E-06 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905475&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.56 | + | 9.99E-04 | 2.05E-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) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&list=upload_1&organism=Homo%20sapiens) | 3.70 | 4.06 | + | 1.42E-05 | 5.45E-04 | | [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) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&list=upload_1&organism=Homo%20sapiens) | 16.43 | 2.56 | + | 1.43E-07 | 9.29E-06 | | [positive regulation of protein localization to cell periphery](http://amigo.geneontology.org/amigo/term/GO:1904377) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904377&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904377&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.14 | + | 3.27E-04 | 8.02E-03 | | [tRNA aminoacylation for protein translation](http://amigo.geneontology.org/amigo/term/GO:0006418) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006418&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006418&list=upload_1&organism=Homo%20sapiens) | 1.49 | 4.69 | + | 1.34E-03 | 2.61E-02 | | [tRNA aminoacylation](http://amigo.geneontology.org/amigo/term/GO:0043039) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043039&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043039&list=upload_1&organism=Homo%20sapiens) | 1.60 | 4.38 | + | 1.91E-03 | 3.48E-02 | | [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) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901360&list=upload_1&organism=Homo%20sapiens) | 117.04 | 1.29 | + | 1.25E-03 | 2.48E-02 | | [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) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006725&list=upload_1&organism=Homo%20sapiens) | 108.44 | 1.29 | + | 1.83E-03 | 3.36E-02 | | [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) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034641&list=upload_1&organism=Homo%20sapiens) | 127.03 | 1.31 | + | 2.99E-04 | 7.46E-03 | | [amino acid activation](http://amigo.geneontology.org/amigo/term/GO:0043038) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043038&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043038&list=upload_1&organism=Homo%20sapiens) | 1.64 | 4.28 | + | 2.13E-03 | 3.81E-02 | | [translation](http://amigo.geneontology.org/amigo/term/GO:0006412) | [379](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006412&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006412&list=upload_1&organism=Homo%20sapiens) | 13.47 | 2.00 | + | 1.27E-03 | 2.50E-02 | | [peptide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0043043) | [408](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043043&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043043&list=upload_1&organism=Homo%20sapiens) | 14.51 | 2.00 | + | 7.55E-04 | 1.62E-02 | | [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) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044271&list=upload_1&organism=Homo%20sapiens) | 56.46 | 1.58 | + | 3.48E-05 | 1.20E-03 | | [cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0044249) | [2464](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&reflist=1) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&list=upload_1&organism=Homo%20sapiens) | 87.60 | 1.39 | + | 2.71E-04 | 6.92E-03 | | [biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009058) | [2603](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&list=upload_1&organism=Homo%20sapiens) | 92.54 | 1.37 | + | 3.06E-04 | 7.61E-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) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901576&list=upload_1&organism=Homo%20sapiens) | 90.09 | 1.37 | + | 4.98E-04 | 1.16E-02 | | [cellular macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0034645) | [773](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034645&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034645&list=upload_1&organism=Homo%20sapiens) | 27.48 | 1.67 | + | 1.14E-03 | 2.29E-02 | | [macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009059) | [1487](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&list=upload_1&organism=Homo%20sapiens) | 52.87 | 1.61 | + | 2.73E-05 | 9.71E-04 | | [cellular senescence](http://amigo.geneontology.org/amigo/term/GO:0090398) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&list=upload_1&organism=Homo%20sapiens) | 2.13 | 4.69 | + | 1.32E-04 | 3.76E-03 | | [spleen development](http://amigo.geneontology.org/amigo/term/GO:0048536) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048536&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048536&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 2.93E-03 | 4.87E-02 | | [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) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048534&list=upload_1&organism=Homo%20sapiens) | 25.24 | 1.94 | + | 2.47E-05 | 8.93E-04 | | [immune system development](http://amigo.geneontology.org/amigo/term/GO:0002520) | [757](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&list=upload_1&organism=Homo%20sapiens) | 26.91 | 1.93 | + | 1.76E-05 | 6.61E-04 | | [animal organ development](http://amigo.geneontology.org/amigo/term/GO:0048513) | [3254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&reflist=1) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&list=upload_1&organism=Homo%20sapiens) | 115.69 | 1.50 | + | 6.64E-08 | 4.67E-06 | | [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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043154&list=upload_1&organism=Homo%20sapiens) | 2.77 | 4.69 | + | 1.35E-05 | 5.24E-04 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043281&list=upload_1&organism=Homo%20sapiens) | 7.40 | 3.38 | + | 5.08E-07 | 2.80E-05 | | [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) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&list=upload_1&organism=Homo%20sapiens) | 31.93 | 2.44 | + | 3.55E-12 | 4.84E-10 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000117&list=upload_1&organism=Homo%20sapiens) | 3.24 | 4.33 | + | 1.43E-05 | 5.46E-04 | | [negative regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010951) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010951&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010951&list=upload_1&organism=Homo%20sapiens) | 8.82 | 2.38 | + | 5.03E-04 | 1.17E-02 | | [negative regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010466) | [257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010466&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010466&list=upload_1&organism=Homo%20sapiens) | 9.14 | 2.30 | + | 7.10E-04 | 1.55E-02 | | [negative regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045861) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&list=upload_1&organism=Homo%20sapiens) | 12.27 | 2.36 | + | 6.95E-05 | 2.20E-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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051346&list=upload_1&organism=Homo%20sapiens) | 12.91 | 2.01 | + | 1.64E-03 | 3.09E-02 | | [regulation of tumor necrosis factor-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0010803) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010803&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010803&list=upload_1&organism=Homo%20sapiens) | 1.92 | 4.69 | + | 2.84E-04 | 7.14E-03 | | [negative regulation of insulin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0046627) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046627&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046627&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 2.93E-03 | 4.86E-02 | | [regulation of insulin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0046626) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046626&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046626&list=upload_1&organism=Homo%20sapiens) | 2.42 | 3.72 | + | 1.27E-03 | 2.50E-02 | | [regulation of cellular response to insulin stimulus](http://amigo.geneontology.org/amigo/term/GO:1900076) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900076&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900076&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.55 | + | 7.82E-05 | 2.41E-03 | | [positive regulation of glucose import](http://amigo.geneontology.org/amigo/term/GO:0046326) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046326&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046326&list=upload_1&organism=Homo%20sapiens) | 1.28 | 4.69 | + | 2.93E-03 | 4.85E-02 | | [positive regulation of glucose transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0010828) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010828&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010828&list=upload_1&organism=Homo%20sapiens) | 1.53 | 6.54 | + | 1.10E-05 | 4.39E-04 | | [regulation of glucose transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0010827) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010827&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010827&list=upload_1&organism=Homo%20sapiens) | 2.60 | 6.16 | + | 5.40E-08 | 3.92E-06 | | [regulation of glucose import](http://amigo.geneontology.org/amigo/term/GO:0046324) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046324&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046324&list=upload_1&organism=Homo%20sapiens) | 1.96 | 5.11 | + | 6.95E-05 | 2.20E-03 | | [ovulation cycle process](http://amigo.geneontology.org/amigo/term/GO:0022602) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022602&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022602&list=upload_1&organism=Homo%20sapiens) | 1.71 | 4.69 | + | 6.15E-04 | 1.37E-02 | | [reproductive process](http://amigo.geneontology.org/amigo/term/GO:0022414) | [1437](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022414&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022414&list=upload_1&organism=Homo%20sapiens) | 51.09 | 1.49 | + | 9.27E-04 | 1.93E-02 | | [reproduction](http://amigo.geneontology.org/amigo/term/GO:0000003) | [1447](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000003&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000003&list=upload_1&organism=Homo%20sapiens) | 51.45 | 1.50 | + | 7.40E-04 | 1.60E-02 | | [ovulation cycle](http://amigo.geneontology.org/amigo/term/GO:0042698) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042698&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042698&list=upload_1&organism=Homo%20sapiens) | 2.45 | 4.08 | + | 3.63E-04 | 8.79E-03 | | [rhythmic process](http://amigo.geneontology.org/amigo/term/GO:0048511) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&list=upload_1&organism=Homo%20sapiens) | 9.67 | 2.90 | + | 1.82E-06 | 8.98E-05 | | [multicellular organismal reproductive process](http://amigo.geneontology.org/amigo/term/GO:0048609) | [870](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048609&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048609&list=upload_1&organism=Homo%20sapiens) | 30.93 | 1.71 | + | 2.77E-04 | 7.05E-03 | | [multicellular organism reproduction](http://amigo.geneontology.org/amigo/term/GO:0032504) | [908](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032504&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032504&list=upload_1&organism=Homo%20sapiens) | 32.28 | 1.70 | + | 2.57E-04 | 6.65E-03 | | [ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070371) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&list=upload_1&organism=Homo%20sapiens) | 1.96 | 4.60 | + | 3.21E-04 | 7.92E-03 | | [protein localization to synapse](http://amigo.geneontology.org/amigo/term/GO:0035418) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035418&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035418&list=upload_1&organism=Homo%20sapiens) | 1.96 | 4.60 | + | 3.21E-04 | 7.91E-03 | | [protein localization to cell junction](http://amigo.geneontology.org/amigo/term/GO:1902414) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902414&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902414&list=upload_1&organism=Homo%20sapiens) | 2.88 | 4.51 | + | 1.93E-05 | 7.16E-04 | | [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) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007173&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.59 | + | 6.94E-04 | 1.52E-02 | | [ERBB signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038127) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&list=upload_1&organism=Homo%20sapiens) | 2.20 | 5.44 | + | 7.64E-06 | 3.19E-04 | | [positive regulation of axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0050772) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050772&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050772&list=upload_1&organism=Homo%20sapiens) | 2.84 | 4.57 | + | 1.71E-05 | 6.46E-04 | | [positive regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050769) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&list=upload_1&organism=Homo%20sapiens) | 8.21 | 2.92 | + | 8.51E-06 | 3.49E-04 | | [positive regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051962) | [279](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051962&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051962&list=upload_1&organism=Homo%20sapiens) | 9.92 | 2.52 | + | 7.73E-05 | 2.40E-03 | | [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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&list=upload_1&organism=Homo%20sapiens) | 16.07 | 2.18 | + | 4.07E-05 | 1.39E-03 | | [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) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&list=upload_1&organism=Homo%20sapiens) | 49.17 | 1.91 | + | 5.16E-09 | 4.42E-07 | | [positive regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0010720) | [308](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010720&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010720&list=upload_1&organism=Homo%20sapiens) | 10.95 | 2.65 | + | 6.00E-06 | 2.57E-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) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&list=upload_1&organism=Homo%20sapiens) | 31.43 | 2.13 | + | 2.56E-08 | 1.96E-06 | | [regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050767) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&list=upload_1&organism=Homo%20sapiens) | 13.26 | 2.34 | + | 3.85E-05 | 1.32E-03 | | [positive regulation of cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0031346) | [351](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031346&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031346&list=upload_1&organism=Homo%20sapiens) | 12.48 | 2.72 | + | 5.33E-07 | 2.90E-05 | | [regulation of cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0031344) | [656](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&list=upload_1&organism=Homo%20sapiens) | 23.32 | 2.40 | + | 1.13E-08 | 9.47E-07 | | [regulation of axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0050770) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&list=upload_1&organism=Homo%20sapiens) | 5.62 | 3.38 | + | 1.16E-05 | 4.57E-04 | | [regulation of neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0010975) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&list=upload_1&organism=Homo%20sapiens) | 15.82 | 2.53 | + | 3.62E-07 | 2.09E-05 | | [regulation of plasma membrane bounded cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0120035) | [640](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&list=upload_1&organism=Homo%20sapiens) | 22.75 | 2.37 | + | 2.71E-08 | 2.07E-06 | | [regulation of anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0022603) | [924](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&list=upload_1&organism=Homo%20sapiens) | 32.85 | 2.28 | + | 1.83E-10 | 1.84E-08 | | [positive regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001238) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001238&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001238&list=upload_1&organism=Homo%20sapiens) | 1.78 | 4.50 | + | 7.81E-04 | 1.66E-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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&list=upload_1&organism=Homo%20sapiens) | 5.48 | 2.92 | + | 2.62E-04 | 6.73E-03 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&list=upload_1&organism=Homo%20sapiens) | 12.94 | 2.40 | + | 1.93E-05 | 7.17E-04 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001235&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.46 | + | 4.33E-05 | 1.47E-03 | | [post-translational protein modification](http://amigo.geneontology.org/amigo/term/GO:0043687) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043687&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043687&list=upload_1&organism=Homo%20sapiens) | 1.78 | 4.50 | + | 7.81E-04 | 1.66E-02 | | [protein destabilization](http://amigo.geneontology.org/amigo/term/GO:0031648) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031648&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031648&list=upload_1&organism=Homo%20sapiens) | 1.78 | 4.50 | + | 7.81E-04 | 1.65E-02 | | [regulation of protein stability](http://amigo.geneontology.org/amigo/term/GO:0031647) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&list=upload_1&organism=Homo%20sapiens) | 11.84 | 3.04 | + | 2.02E-08 | 1.58E-06 | | [neuron projection organization](http://amigo.geneontology.org/amigo/term/GO:0106027) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0106027&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0106027&list=upload_1&organism=Homo%20sapiens) | 1.56 | 4.47 | + | 1.70E-03 | 3.16E-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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043123&list=upload_1&organism=Homo%20sapiens) | 6.76 | 4.44 | + | 1.23E-10 | 1.28E-08 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043122&list=upload_1&organism=Homo%20sapiens) | 8.96 | 4.58 | + | 1.95E-14 | 3.43E-12 | | [positive regulation of JNK cascade](http://amigo.geneontology.org/amigo/term/GO:0046330) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046330&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046330&list=upload_1&organism=Homo%20sapiens) | 3.38 | 4.44 | + | 5.36E-06 | 2.33E-04 | | [positive regulation of stress-activated MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0032874) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032874&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032874&list=upload_1&organism=Homo%20sapiens) | 4.48 | 4.02 | + | 2.28E-06 | 1.07E-04 | | [positive regulation of stress-activated protein kinase signaling cascade](http://amigo.geneontology.org/amigo/term/GO:0070304) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070304&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070304&list=upload_1&organism=Homo%20sapiens) | 4.55 | 3.96 | + | 2.79E-06 | 1.29E-04 | | [regulation of JNK cascade](http://amigo.geneontology.org/amigo/term/GO:0046328) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046328&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046328&list=upload_1&organism=Homo%20sapiens) | 4.98 | 4.42 | + | 3.94E-08 | 2.91E-06 | | [peptidyl-threonine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018107) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&list=upload_1&organism=Homo%20sapiens) | 2.49 | 4.42 | + | 9.86E-05 | 2.93E-03 | | [peptidyl-threonine modification](http://amigo.geneontology.org/amigo/term/GO:0018210) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&list=upload_1&organism=Homo%20sapiens) | 2.81 | 4.27 | + | 6.45E-05 | 2.06E-03 | | [protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0006468) | [719](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&list=upload_1&organism=Homo%20sapiens) | 25.56 | 3.09 | + | 1.94E-17 | 4.41E-15 | | [phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0016310) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&list=upload_1&organism=Homo%20sapiens) | 32.64 | 2.94 | + | 1.02E-19 | 3.02E-17 | | [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) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&list=upload_1&organism=Homo%20sapiens) | 65.95 | 2.14 | + | 5.68E-17 | 1.19E-14 | | [phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006793) | [1881](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&list=upload_1&organism=Homo%20sapiens) | 66.88 | 2.11 | + | 1.64E-16 | 3.22E-14 | | [regulation of postsynaptic membrane neurotransmitter receptor levels](http://amigo.geneontology.org/amigo/term/GO:0099072) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099072&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099072&list=upload_1&organism=Homo%20sapiens) | 1.60 | 4.38 | + | 1.91E-03 | 3.49E-02 | | [anterograde axonal transport](http://amigo.geneontology.org/amigo/term/GO:0008089) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008089&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008089&list=upload_1&organism=Homo%20sapiens) | 1.60 | 4.38 | + | 1.91E-03 | 3.48E-02 | | [axonal transport](http://amigo.geneontology.org/amigo/term/GO:0098930) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098930&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098930&list=upload_1&organism=Homo%20sapiens) | 2.13 | 3.75 | + | 2.23E-03 | 3.95E-02 | | [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) | 2.60 | 3.85 | + | 5.43E-04 | 1.24E-02 | | [positive regulation of Notch signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0045747) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045747&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045747&list=upload_1&organism=Homo%20sapiens) | 1.64 | 4.28 | + | 2.13E-03 | 3.82E-02 | | [substantia nigra development](http://amigo.geneontology.org/amigo/term/GO:0021762) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021762&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021762&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.12E-02 | | [brain development](http://amigo.geneontology.org/amigo/term/GO:0007420) | [775](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&list=upload_1&organism=Homo%20sapiens) | 27.55 | 1.81 | + | 1.20E-04 | 3.46E-03 | | [central nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007417) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&list=upload_1&organism=Homo%20sapiens) | 36.76 | 1.82 | + | 5.38E-06 | 2.33E-04 | | [head development](http://amigo.geneontology.org/amigo/term/GO:0060322) | [823](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&list=upload_1&organism=Homo%20sapiens) | 29.26 | 1.85 | + | 3.79E-05 | 1.30E-03 | | [neural nucleus development](http://amigo.geneontology.org/amigo/term/GO:0048857) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048857&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048857&list=upload_1&organism=Homo%20sapiens) | 2.42 | 3.72 | + | 1.27E-03 | 2.50E-02 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.11E-02 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905953&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.11E-02 | | [regulation of lipid localization](http://amigo.geneontology.org/amigo/term/GO:1905952) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905952&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905952&list=upload_1&organism=Homo%20sapiens) | 5.94 | 2.86 | + | 2.13E-04 | 5.65E-03 | | [negative regulation of cold-induced thermogenesis](http://amigo.geneontology.org/amigo/term/GO:0120163) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120163&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120163&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.10E-02 | | [negative regulation of I-kappaB kinase/NF-kappaB signaling](http://amigo.geneontology.org/amigo/term/GO:0043124) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043124&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043124&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.10E-02 | | [labyrinthine layer development](http://amigo.geneontology.org/amigo/term/GO:0060711) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060711&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060711&list=upload_1&organism=Homo%20sapiens) | 1.67 | 4.19 | + | 2.38E-03 | 4.09E-02 | | [placenta development](http://amigo.geneontology.org/amigo/term/GO:0001890) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001890&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001890&list=upload_1&organism=Homo%20sapiens) | 5.37 | 3.17 | + | 6.98E-05 | 2.20E-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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&list=upload_1&organism=Homo%20sapiens) | 2.17 | 4.15 | + | 6.31E-04 | 1.40E-02 | | [response to metal ion](http://amigo.geneontology.org/amigo/term/GO:0010038) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&list=upload_1&organism=Homo%20sapiens) | 12.91 | 2.94 | + | 1.79E-08 | 1.44E-06 | | [response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0010035) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&list=upload_1&organism=Homo%20sapiens) | 18.95 | 2.69 | + | 1.11E-09 | 1.03E-07 | | [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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900182&list=upload_1&organism=Homo%20sapiens) | 3.16 | 4.11 | + | 4.65E-05 | 1.56E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900180&list=upload_1&organism=Homo%20sapiens) | 5.01 | 3.99 | + | 7.00E-07 | 3.74E-05 | | [female gonad development](http://amigo.geneontology.org/amigo/term/GO:0008585) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008585&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008585&list=upload_1&organism=Homo%20sapiens) | 3.41 | 4.10 | + | 2.44E-05 | 8.85E-04 | | [development of primary female sexual characteristics](http://amigo.geneontology.org/amigo/term/GO:0046545) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046545&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046545&list=upload_1&organism=Homo%20sapiens) | 3.56 | 3.94 | + | 3.66E-05 | 1.26E-03 | | [female sex differentiation](http://amigo.geneontology.org/amigo/term/GO:0046660) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046660&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046660&list=upload_1&organism=Homo%20sapiens) | 4.09 | 3.42 | + | 1.42E-04 | 4.03E-03 | | [sex differentiation](http://amigo.geneontology.org/amigo/term/GO:0007548) | [282](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007548&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007548&list=upload_1&organism=Homo%20sapiens) | 10.03 | 2.19 | + | 1.14E-03 | 2.29E-02 | | [developmental process involved in reproduction](http://amigo.geneontology.org/amigo/term/GO:0003006) | [947](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003006&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003006&list=upload_1&organism=Homo%20sapiens) | 33.67 | 1.66 | + | 3.49E-04 | 8.48E-03 | | [gonad development](http://amigo.geneontology.org/amigo/term/GO:0008406) | [226](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008406&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008406&list=upload_1&organism=Homo%20sapiens) | 8.03 | 2.24 | + | 2.19E-03 | 3.89E-02 | | [reproductive structure development](http://amigo.geneontology.org/amigo/term/GO:0048608) | [300](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048608&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048608&list=upload_1&organism=Homo%20sapiens) | 10.67 | 2.44 | + | 7.56E-05 | 2.35E-03 | | [reproductive system development](http://amigo.geneontology.org/amigo/term/GO:0061458) | [304](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061458&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061458&list=upload_1&organism=Homo%20sapiens) | 10.81 | 2.41 | + | 8.88E-05 | 2.69E-03 | | [response to cocaine](http://amigo.geneontology.org/amigo/term/GO:0042220) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042220&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042220&list=upload_1&organism=Homo%20sapiens) | 1.71 | 4.10 | + | 2.65E-03 | 4.51E-02 | | [positive regulation of cyclin-dependent protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:1904031) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904031&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904031&list=upload_1&organism=Homo%20sapiens) | 1.96 | 4.09 | + | 1.36E-03 | 2.65E-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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.10 | + | 5.83E-04 | 1.31E-02 | | [regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0051726) | [1122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&list=upload_1&organism=Homo%20sapiens) | 39.89 | 2.01 | + | 1.19E-08 | 9.90E-07 | | [response to exogenous dsRNA](http://amigo.geneontology.org/amigo/term/GO:0043330) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043330&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043330&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.02 | + | 2.94E-03 | 4.85E-02 | | [response to amyloid-beta](http://amigo.geneontology.org/amigo/term/GO:1904645) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904645&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904645&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.02 | + | 2.94E-03 | 4.85E-02 | | [positive regulation of pathway-restricted SMAD protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0010862) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010862&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010862&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.02 | + | 2.94E-03 | 4.84E-02 | | [regulation of pathway-restricted SMAD protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0060393) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060393&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060393&list=upload_1&organism=Homo%20sapiens) | 2.20 | 4.08 | + | 7.01E-04 | 1.53E-02 | | [mammary gland epithelium development](http://amigo.geneontology.org/amigo/term/GO:0061180) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.02 | + | 7.77E-04 | 1.65E-02 | | [mammary gland development](http://amigo.geneontology.org/amigo/term/GO:0030879) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&list=upload_1&organism=Homo%20sapiens) | 4.66 | 3.01 | + | 4.81E-04 | 1.13E-02 | | [gland development](http://amigo.geneontology.org/amigo/term/GO:0048732) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&list=upload_1&organism=Homo%20sapiens) | 15.00 | 2.13 | + | 1.24E-04 | 3.57E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051092&list=upload_1&organism=Homo%20sapiens) | 5.55 | 3.97 | + | 2.15E-07 | 1.33E-05 | | [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) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051091&list=upload_1&organism=Homo%20sapiens) | 9.53 | 3.04 | + | 4.72E-07 | 2.64E-05 | | [peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018105) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&list=upload_1&organism=Homo%20sapiens) | 6.61 | 3.93 | + | 2.02E-08 | 1.58E-06 | | [peptidyl-serine modification](http://amigo.geneontology.org/amigo/term/GO:0018209) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&list=upload_1&organism=Homo%20sapiens) | 7.32 | 3.69 | + | 3.63E-08 | 2.71E-06 | | [negative regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070373) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070373&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070373&list=upload_1&organism=Homo%20sapiens) | 2.56 | 3.91 | + | 4.92E-04 | 1.15E-02 | | [negative regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043409) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043409&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043409&list=upload_1&organism=Homo%20sapiens) | 6.04 | 3.31 | + | 9.20E-06 | 3.75E-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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070372&list=upload_1&organism=Homo%20sapiens) | 10.77 | 2.78 | + | 1.64E-06 | 8.13E-05 | | [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) | 3.38 | 3.85 | + | 8.48E-05 | 2.60E-03 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019216&list=upload_1&organism=Homo%20sapiens) | 12.30 | 2.60 | + | 4.47E-06 | 1.98E-04 | | [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) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010565&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.13 | + | 2.09E-04 | 5.57E-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) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062012&list=upload_1&organism=Homo%20sapiens) | 11.84 | 2.79 | + | 4.90E-07 | 2.71E-05 | | [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) | 3.38 | 3.85 | + | 8.48E-05 | 2.60E-03 | | [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) | 3.95 | 3.55 | + | 1.01E-04 | 3.00E-03 | | [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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&list=upload_1&organism=Homo%20sapiens) | 6.12 | 3.27 | + | 1.08E-05 | 4.31E-04 | | [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) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&list=upload_1&organism=Homo%20sapiens) | 27.94 | 2.18 | + | 6.35E-08 | 4.52E-06 | | [regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009894) | [987](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&list=upload_1&organism=Homo%20sapiens) | 35.09 | 2.14 | + | 3.47E-09 | 3.08E-07 | | [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) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&list=upload_1&organism=Homo%20sapiens) | 8.11 | 2.96 | + | 6.96E-06 | 2.93E-04 | | [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) | 4.87 | 3.08 | + | 2.42E-04 | 6.28E-03 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031331&list=upload_1&organism=Homo%20sapiens) | 14.61 | 2.12 | + | 1.74E-04 | 4.78E-03 | | [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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009896&list=upload_1&organism=Homo%20sapiens) | 18.24 | 2.03 | + | 1.13E-04 | 3.28E-03 | | [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) | 4.23 | 3.31 | + | 1.97E-04 | 5.32E-03 | | [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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&list=upload_1&organism=Homo%20sapiens) | 6.90 | 2.90 | + | 5.19E-05 | 1.71E-03 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&list=upload_1&organism=Homo%20sapiens) | 13.05 | 2.61 | + | 2.07E-06 | 9.93E-05 | | [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) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045732&list=upload_1&organism=Homo%20sapiens) | 7.64 | 2.49 | + | 7.54E-04 | 1.62E-02 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&list=upload_1&organism=Homo%20sapiens) | 5.05 | 3.37 | + | 3.47E-05 | 1.20E-03 | | [synaptic vesicle recycling](http://amigo.geneontology.org/amigo/term/GO:0036465) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036465&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036465&list=upload_1&organism=Homo%20sapiens) | 2.35 | 3.84 | + | 1.05E-03 | 2.13E-02 | | [synaptic vesicle cycle](http://amigo.geneontology.org/amigo/term/GO:0099504) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099504&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099504&list=upload_1&organism=Homo%20sapiens) | 4.48 | 3.13 | + | 3.36E-04 | 8.19E-03 | | [vesicle-mediated transport in synapse](http://amigo.geneontology.org/amigo/term/GO:0099003) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099003&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099003&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.13 | + | 2.09E-04 | 5.58E-03 | | [response to heat](http://amigo.geneontology.org/amigo/term/GO:0009408) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&list=upload_1&organism=Homo%20sapiens) | 3.66 | 3.82 | + | 4.89E-05 | 1.63E-03 | | [response to temperature stimulus](http://amigo.geneontology.org/amigo/term/GO:0009266) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&list=upload_1&organism=Homo%20sapiens) | 6.33 | 3.32 | + | 5.32E-06 | 2.32E-04 | | [response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009628) | [1121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&list=upload_1&organism=Homo%20sapiens) | 39.85 | 2.26 | + | 4.94E-12 | 6.51E-10 | | [regulation of nitric oxide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0045428) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045428&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045428&list=upload_1&organism=Homo%20sapiens) | 2.10 | 3.81 | + | 2.03E-03 | 3.66E-02 | | [positive regulation of lipase activity](http://amigo.geneontology.org/amigo/term/GO:0060193) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060193&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060193&list=upload_1&organism=Homo%20sapiens) | 2.38 | 3.78 | + | 1.15E-03 | 2.31E-02 | | [regulation of lipase activity](http://amigo.geneontology.org/amigo/term/GO:0060191) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060191&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060191&list=upload_1&organism=Homo%20sapiens) | 3.13 | 3.52 | + | 5.87E-04 | 1.32E-02 | | [regulation of tissue remodeling](http://amigo.geneontology.org/amigo/term/GO:0034103) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034103&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034103&list=upload_1&organism=Homo%20sapiens) | 2.67 | 3.75 | + | 6.57E-04 | 1.45E-02 | | [complement activation, classical pathway](http://amigo.geneontology.org/amigo/term/GO:0006958) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006958&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006958&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.72 | + | 1.96E-05 | 7.28E-04 | | [humoral immune response mediated by circulating immunoglobulin](http://amigo.geneontology.org/amigo/term/GO:0002455) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002455&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002455&list=upload_1&organism=Homo%20sapiens) | 4.44 | 3.83 | + | 7.81E-06 | 3.25E-04 | | [humoral immune response](http://amigo.geneontology.org/amigo/term/GO:0006959) | [339](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006959&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006959&list=upload_1&organism=Homo%20sapiens) | 12.05 | 2.66 | + | 1.91E-06 | 9.37E-05 | | [immune response](http://amigo.geneontology.org/amigo/term/GO:0006955) | [1621](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006955&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006955&list=upload_1&organism=Homo%20sapiens) | 57.63 | 1.74 | + | 1.76E-07 | 1.13E-05 | | [immunoglobulin mediated immune response](http://amigo.geneontology.org/amigo/term/GO:0016064) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016064&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016064&list=upload_1&organism=Homo%20sapiens) | 6.83 | 2.93 | + | 4.55E-05 | 1.53E-03 | | [B cell mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0019724) | [196](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019724&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019724&list=upload_1&organism=Homo%20sapiens) | 6.97 | 2.87 | + | 5.92E-05 | 1.91E-03 | | [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) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002460&list=upload_1&organism=Homo%20sapiens) | 9.42 | 2.55 | + | 1.04E-04 | 3.06E-03 | | [lymphocyte mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0002449) | [257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002449&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002449&list=upload_1&organism=Homo%20sapiens) | 9.14 | 2.41 | + | 3.27E-04 | 8.04E-03 | | [leukocyte mediated immunity](http://amigo.geneontology.org/amigo/term/GO:0002443) | [310](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002443&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002443&list=upload_1&organism=Homo%20sapiens) | 11.02 | 2.54 | + | 2.42E-05 | 8.86E-04 | | [immune effector process](http://amigo.geneontology.org/amigo/term/GO:0002252) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002252&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002252&list=upload_1&organism=Homo%20sapiens) | 16.71 | 2.09 | + | 9.39E-05 | 2.81E-03 | | [complement activation](http://amigo.geneontology.org/amigo/term/GO:0006956) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006956&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006956&list=upload_1&organism=Homo%20sapiens) | 4.98 | 3.62 | + | 8.58E-06 | 3.51E-04 | | [B cell receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0050853) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050853&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050853&list=upload_1&organism=Homo%20sapiens) | 4.59 | 3.71 | + | 1.13E-05 | 4.50E-04 | | [antigen receptor-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0050851) | [226](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050851&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050851&list=upload_1&organism=Homo%20sapiens) | 8.03 | 3.36 | + | 2.00E-07 | 1.26E-05 | | [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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071260&list=upload_1&organism=Homo%20sapiens) | 2.70 | 3.70 | + | 7.21E-04 | 1.57E-02 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071496&list=upload_1&organism=Homo%20sapiens) | 11.55 | 2.68 | + | 2.26E-06 | 1.07E-04 | | [response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0009605) | [2469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&reflist=1) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&list=upload_1&organism=Homo%20sapiens) | 87.78 | 1.86 | + | 2.19E-14 | 3.77E-12 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&list=upload_1&organism=Homo%20sapiens) | 11.59 | 2.76 | + | 8.81E-07 | 4.59E-05 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&list=upload_1&organism=Homo%20sapiens) | 11.59 | 2.76 | + | 8.81E-07 | 4.57E-05 | | [negative regulation of innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045824) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045824&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045824&list=upload_1&organism=Homo%20sapiens) | 2.70 | 3.70 | + | 7.21E-04 | 1.56E-02 | | [phagocytosis, recognition](http://amigo.geneontology.org/amigo/term/GO:0006910) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006910&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006910&list=upload_1&organism=Homo%20sapiens) | 3.80 | 3.68 | + | 7.10E-05 | 2.23E-03 | | [phagocytosis](http://amigo.geneontology.org/amigo/term/GO:0006909) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006909&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006909&list=upload_1&organism=Homo%20sapiens) | 9.03 | 2.44 | + | 2.95E-04 | 7.39E-03 | | [cell recognition](http://amigo.geneontology.org/amigo/term/GO:0008037) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008037&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008037&list=upload_1&organism=Homo%20sapiens) | 8.18 | 2.69 | + | 6.28E-05 | 2.01E-03 | | [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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&list=upload_1&organism=Homo%20sapiens) | 3.31 | 3.63 | + | 2.58E-04 | 6.64E-03 | | [regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901214) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&list=upload_1&organism=Homo%20sapiens) | 11.55 | 2.51 | + | 1.92E-05 | 7.16E-04 | | [regulation of cytokinesis](http://amigo.geneontology.org/amigo/term/GO:0032465) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032465&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032465&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.59 | + | 2.82E-04 | 7.13E-03 | | [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) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&list=upload_1&organism=Homo%20sapiens) | 25.42 | 1.73 | + | 7.32E-04 | 1.58E-02 | | [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) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045931&list=upload_1&organism=Homo%20sapiens) | 4.30 | 3.49 | + | 6.92E-05 | 2.20E-03 | | [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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&list=upload_1&organism=Homo%20sapiens) | 17.53 | 2.05 | + | 1.36E-04 | 3.85E-03 | | [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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045787&list=upload_1&organism=Homo%20sapiens) | 12.55 | 2.07 | + | 8.61E-04 | 1.81E-02 | | [regulation of organ growth](http://amigo.geneontology.org/amigo/term/GO:0046620) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046620&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046620&list=upload_1&organism=Homo%20sapiens) | 3.16 | 3.48 | + | 6.40E-04 | 1.42E-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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&list=upload_1&organism=Homo%20sapiens) | 11.52 | 2.60 | + | 5.65E-06 | 2.44E-04 | | [regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0040008) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&list=upload_1&organism=Homo%20sapiens) | 22.29 | 2.24 | + | 4.43E-07 | 2.50E-05 | | [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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033143&list=upload_1&organism=Homo%20sapiens) | 2.60 | 3.47 | + | 1.98E-03 | 3.60E-02 | | [protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0046777) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&list=upload_1&organism=Homo%20sapiens) | 6.72 | 3.42 | + | 1.19E-06 | 6.05E-05 | | [phagocytosis, engulfment](http://amigo.geneontology.org/amigo/term/GO:0006911) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006911&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006911&list=upload_1&organism=Homo%20sapiens) | 4.69 | 3.41 | + | 5.11E-05 | 1.70E-03 | | [plasma membrane invagination](http://amigo.geneontology.org/amigo/term/GO:0099024) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099024&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099024&list=upload_1&organism=Homo%20sapiens) | 5.01 | 3.19 | + | 1.04E-04 | 3.06E-03 | | [membrane invagination](http://amigo.geneontology.org/amigo/term/GO:0010324) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010324&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010324&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.23 | + | 5.57E-05 | 1.81E-03 | | [membrane organization](http://amigo.geneontology.org/amigo/term/GO:0061024) | [851](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&list=upload_1&organism=Homo%20sapiens) | 30.26 | 2.02 | + | 6.22E-07 | 3.37E-05 | | [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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006919&list=upload_1&organism=Homo%20sapiens) | 2.95 | 3.39 | + | 1.33E-03 | 2.60E-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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043280&list=upload_1&organism=Homo%20sapiens) | 4.59 | 2.83 | + | 1.24E-03 | 2.47E-02 | | [negative regulation of cytokine-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0001960) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001960&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001960&list=upload_1&organism=Homo%20sapiens) | 2.67 | 3.38 | + | 2.34E-03 | 4.06E-02 | | [negative regulation of response to cytokine stimulus](http://amigo.geneontology.org/amigo/term/GO:0060761) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060761&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060761&list=upload_1&organism=Homo%20sapiens) | 2.81 | 3.56 | + | 9.44E-04 | 1.96E-02 | | [positive regulation of carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045913) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045913&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045913&list=upload_1&organism=Homo%20sapiens) | 2.67 | 3.38 | + | 2.34E-03 | 4.05E-02 | | [peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018108) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&list=upload_1&organism=Homo%20sapiens) | 5.97 | 3.35 | + | 7.85E-06 | 3.26E-04 | | [peptidyl-tyrosine modification](http://amigo.geneontology.org/amigo/term/GO:0018212) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&list=upload_1&organism=Homo%20sapiens) | 6.04 | 3.31 | + | 9.20E-06 | 3.76E-04 | | [nucleosome assembly](http://amigo.geneontology.org/amigo/term/GO:0006334) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006334&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006334&list=upload_1&organism=Homo%20sapiens) | 3.31 | 3.33 | + | 8.91E-04 | 1.86E-02 | | [nucleosome organization](http://amigo.geneontology.org/amigo/term/GO:0034728) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034728&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034728&list=upload_1&organism=Homo%20sapiens) | 4.44 | 3.38 | + | 9.64E-05 | 2.87E-03 | | [tissue remodeling](http://amigo.geneontology.org/amigo/term/GO:0048771) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048771&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048771&list=upload_1&organism=Homo%20sapiens) | 3.63 | 3.31 | + | 5.52E-04 | 1.26E-02 | | [post-embryonic development](http://amigo.geneontology.org/amigo/term/GO:0009791) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009791&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009791&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.29 | + | 9.65E-04 | 1.98E-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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&list=upload_1&organism=Homo%20sapiens) | 2.74 | 3.29 | + | 2.75E-03 | 4.66E-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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&list=upload_1&organism=Homo%20sapiens) | 3.16 | 3.79 | + | 1.78E-04 | 4.90E-03 | | [regulation of circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0042752) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&list=upload_1&organism=Homo%20sapiens) | 4.27 | 3.28 | + | 2.13E-04 | 5.65E-03 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&list=upload_1&organism=Homo%20sapiens) | 5.23 | 3.25 | + | 5.15E-05 | 1.70E-03 | | [response to osmotic stress](http://amigo.geneontology.org/amigo/term/GO:0006970) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006970&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006970&list=upload_1&organism=Homo%20sapiens) | 2.77 | 3.25 | + | 2.97E-03 | 4.89E-02 | | [regulation of glucose metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010906) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010906&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010906&list=upload_1&organism=Homo%20sapiens) | 3.70 | 3.25 | + | 6.46E-04 | 1.43E-02 | | [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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045069&list=upload_1&organism=Homo%20sapiens) | 3.09 | 3.23 | + | 1.83E-03 | 3.36E-02 | | [cellular response to ketone](http://amigo.geneontology.org/amigo/term/GO:1901655) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901655&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901655&list=upload_1&organism=Homo%20sapiens) | 3.77 | 3.18 | + | 7.53E-04 | 1.62E-02 | | [response to ketone](http://amigo.geneontology.org/amigo/term/GO:1901654) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901654&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901654&list=upload_1&organism=Homo%20sapiens) | 7.32 | 2.59 | + | 2.97E-04 | 7.42E-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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097306&list=upload_1&organism=Homo%20sapiens) | 3.48 | 3.16 | + | 1.31E-03 | 2.57E-02 | | [response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097305) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&list=upload_1&organism=Homo%20sapiens) | 9.03 | 2.33 | + | 6.31E-04 | 1.40E-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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051897&list=upload_1&organism=Homo%20sapiens) | 4.12 | 3.15 | + | 5.03E-04 | 1.16E-02 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051896&list=upload_1&organism=Homo%20sapiens) | 6.04 | 2.81 | + | 2.58E-04 | 6.65E-03 | | [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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034614&list=upload_1&organism=Homo%20sapiens) | 4.16 | 3.13 | + | 5.42E-04 | 1.24E-02 | | [response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0006979) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&list=upload_1&organism=Homo%20sapiens) | 13.05 | 2.07 | + | 6.67E-04 | 1.47E-02 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&list=upload_1&organism=Homo%20sapiens) | 7.89 | 2.66 | + | 1.06E-04 | 3.10E-03 | | [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) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&list=upload_1&organism=Homo%20sapiens) | 9.71 | 2.88 | + | 1.94E-06 | 9.50E-05 | | [excitatory postsynaptic potential](http://amigo.geneontology.org/amigo/term/GO:0060079) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060079&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060079&list=upload_1&organism=Homo%20sapiens) | 3.20 | 3.13 | + | 2.30E-03 | 3.99E-02 | | [cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:0007267) | [1083](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&list=upload_1&organism=Homo%20sapiens) | 38.50 | 1.82 | + | 3.78E-06 | 1.70E-04 | | [cell surface receptor signaling pathway involved in cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:1905114) | [383](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905114&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905114&list=upload_1&organism=Homo%20sapiens) | 13.62 | 2.42 | + | 8.38E-06 | 3.45E-04 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045834&list=upload_1&organism=Homo%20sapiens) | 5.48 | 3.10 | + | 8.71E-05 | 2.65E-03 | | [positive regulation of endocytosis](http://amigo.geneontology.org/amigo/term/GO:0045807) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045807&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045807&list=upload_1&organism=Homo%20sapiens) | 3.56 | 3.09 | + | 1.52E-03 | 2.88E-02 | | [nucleoside diphosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009132) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009132&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009132&list=upload_1&organism=Homo%20sapiens) | 3.24 | 3.09 | + | 2.47E-03 | 4.24E-02 | | [regulation of receptor-mediated endocytosis](http://amigo.geneontology.org/amigo/term/GO:0048259) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048259&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048259&list=upload_1&organism=Homo%20sapiens) | 3.91 | 3.07 | + | 1.01E-03 | 2.07E-02 | | [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) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032273&list=upload_1&organism=Homo%20sapiens) | 3.27 | 3.06 | + | 2.66E-03 | 4.53E-02 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031334&list=upload_1&organism=Homo%20sapiens) | 6.90 | 3.33 | + | 1.78E-06 | 8.81E-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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&list=upload_1&organism=Homo%20sapiens) | 17.81 | 1.96 | + | 2.73E-04 | 6.96E-03 | | [regulation of lipid transport](http://amigo.geneontology.org/amigo/term/GO:0032368) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032368&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032368&list=upload_1&organism=Homo%20sapiens) | 4.94 | 3.04 | + | 2.79E-04 | 7.06E-03 | | [cellular response to leukemia inhibitory factor](http://amigo.geneontology.org/amigo/term/GO:1990830) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990830&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990830&list=upload_1&organism=Homo%20sapiens) | 3.31 | 3.02 | + | 2.86E-03 | 4.81E-02 | | [response to calcium ion](http://amigo.geneontology.org/amigo/term/GO:0051592) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051592&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051592&list=upload_1&organism=Homo%20sapiens) | 5.30 | 3.02 | + | 1.86E-04 | 5.08E-03 | | [positive regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0030307) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030307&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030307&list=upload_1&organism=Homo%20sapiens) | 5.97 | 3.01 | + | 7.74E-05 | 2.40E-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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&list=upload_1&organism=Homo%20sapiens) | 15.25 | 2.29 | + | 1.40E-05 | 5.42E-04 | | [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) | 9.24 | 2.92 | + | 2.39E-06 | 1.11E-04 | | [regulation of nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0046822) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.01 | + | 1.17E-03 | 2.34E-02 | | [regulation of intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0032386) | [342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&list=upload_1&organism=Homo%20sapiens) | 12.16 | 2.39 | + | 3.86E-05 | 1.32E-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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060560&list=upload_1&organism=Homo%20sapiens) | 4.66 | 3.01 | + | 4.81E-04 | 1.13E-02 | | [anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009653) | [2237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&list=upload_1&organism=Homo%20sapiens) | 79.53 | 1.45 | + | 8.98E-05 | 2.70E-03 | | [developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048589) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&list=upload_1&organism=Homo%20sapiens) | 14.68 | 1.91 | + | 2.03E-03 | 3.66E-02 | | [growth](http://amigo.geneontology.org/amigo/term/GO:0040007) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&list=upload_1&organism=Homo%20sapiens) | 14.68 | 1.91 | + | 2.03E-03 | 3.66E-02 | | [developmental cell growth](http://amigo.geneontology.org/amigo/term/GO:0048588) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&list=upload_1&organism=Homo%20sapiens) | 3.66 | 3.00 | + | 1.89E-03 | 3.46E-02 | | [cell growth](http://amigo.geneontology.org/amigo/term/GO:0016049) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&list=upload_1&organism=Homo%20sapiens) | 3.73 | 2.95 | + | 2.17E-03 | 3.85E-02 | | [negative regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0006469) | [207](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006469&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006469&list=upload_1&organism=Homo%20sapiens) | 7.36 | 2.99 | + | 1.45E-05 | 5.55E-04 | | [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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001933&list=upload_1&organism=Homo%20sapiens) | 11.45 | 2.62 | + | 5.05E-06 | 2.22E-04 | | [negative regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042326) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&list=upload_1&organism=Homo%20sapiens) | 12.98 | 2.62 | + | 1.98E-06 | 9.62E-05 | | [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) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&list=upload_1&organism=Homo%20sapiens) | 15.00 | 2.60 | + | 3.24E-07 | 1.90E-05 | | [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) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&list=upload_1&organism=Homo%20sapiens) | 15.04 | 2.66 | + | 9.60E-08 | 6.46E-06 | | [negative regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0033673) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033673&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033673&list=upload_1&organism=Homo%20sapiens) | 8.21 | 2.80 | + | 2.43E-05 | 8.85E-04 | | [limbic system development](http://amigo.geneontology.org/amigo/term/GO:0021761) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&list=upload_1&organism=Homo%20sapiens) | 4.02 | 2.99 | + | 1.25E-03 | 2.48E-02 | | [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) | 6.04 | 2.98 | + | 8.89E-05 | 2.68E-03 | | [cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008283) | [718](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&list=upload_1&organism=Homo%20sapiens) | 25.53 | 1.72 | + | 7.63E-04 | 1.63E-02 | | [protein stabilization](http://amigo.geneontology.org/amigo/term/GO:0050821) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&list=upload_1&organism=Homo%20sapiens) | 7.75 | 2.97 | + | 1.04E-05 | 4.19E-04 | | [regulation of interleukin-1 production](http://amigo.geneontology.org/amigo/term/GO:0032652) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032652&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032652&list=upload_1&organism=Homo%20sapiens) | 4.05 | 2.96 | + | 1.34E-03 | 2.62E-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) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090263&list=upload_1&organism=Homo%20sapiens) | 3.73 | 2.95 | + | 2.17E-03 | 3.86E-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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060828&list=upload_1&organism=Homo%20sapiens) | 9.07 | 2.43 | + | 3.05E-04 | 7.60E-03 | | [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) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030111&list=upload_1&organism=Homo%20sapiens) | 11.80 | 2.37 | + | 5.70E-05 | 1.84E-03 | | [positive regulation of Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030177) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030177&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030177&list=upload_1&organism=Homo%20sapiens) | 5.05 | 3.17 | + | 1.12E-04 | 3.27E-03 | | [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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&list=upload_1&organism=Homo%20sapiens) | 4.09 | 2.93 | + | 1.44E-03 | 2.75E-02 | | [intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097193) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&list=upload_1&organism=Homo%20sapiens) | 5.80 | 2.93 | + | 1.63E-04 | 4.56E-03 | | [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) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046890&list=upload_1&organism=Homo%20sapiens) | 6.15 | 2.93 | + | 1.09E-04 | 3.19E-03 | | [positive regulation of transporter activity](http://amigo.geneontology.org/amigo/term/GO:0032411) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032411&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032411&list=upload_1&organism=Homo%20sapiens) | 4.48 | 2.90 | + | 1.02E-03 | 2.08E-02 | | [regulation of transporter activity](http://amigo.geneontology.org/amigo/term/GO:0032409) | [299](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032409&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032409&list=upload_1&organism=Homo%20sapiens) | 10.63 | 2.35 | + | 1.62E-04 | 4.54E-03 | | [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) | 7.11 | 2.81 | + | 7.65E-05 | 2.37E-03 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&list=upload_1&organism=Homo%20sapiens) | 8.18 | 2.57 | + | 1.66E-04 | 4.61E-03 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090316&list=upload_1&organism=Homo%20sapiens) | 5.69 | 2.81 | + | 3.87E-04 | 9.27E-03 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051222&list=upload_1&organism=Homo%20sapiens) | 10.81 | 2.13 | + | 1.11E-03 | 2.25E-02 | | [regulation of protein transport](http://amigo.geneontology.org/amigo/term/GO:0051223) | [502](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&list=upload_1&organism=Homo%20sapiens) | 17.85 | 1.85 | + | 1.54E-03 | 2.91E-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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&list=upload_1&organism=Homo%20sapiens) | 18.74 | 1.97 | + | 2.23E-04 | 5.89E-03 | | [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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904951&list=upload_1&organism=Homo%20sapiens) | 11.38 | 2.29 | + | 2.40E-04 | 6.25E-03 | | [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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032388&list=upload_1&organism=Homo%20sapiens) | 7.22 | 2.77 | + | 9.22E-05 | 2.76E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&list=upload_1&organism=Homo%20sapiens) | 8.21 | 2.44 | + | 5.92E-04 | 1.33E-02 | | [T cell receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0050852) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050852&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050852&list=upload_1&organism=Homo%20sapiens) | 3.91 | 2.81 | + | 3.02E-03 | 4.96E-02 | | [carbohydrate catabolic process](http://amigo.geneontology.org/amigo/term/GO:0016052) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016052&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016052&list=upload_1&organism=Homo%20sapiens) | 3.91 | 2.81 | + | 3.02E-03 | 4.96E-02 | | [regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0043393) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&list=upload_1&organism=Homo%20sapiens) | 7.15 | 2.80 | + | 8.14E-05 | 2.50E-03 | | [regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051098) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&list=upload_1&organism=Homo%20sapiens) | 13.30 | 2.63 | + | 7.61E-07 | 4.03E-05 | | [activation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0032147) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032147&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032147&list=upload_1&organism=Homo%20sapiens) | 5.01 | 2.79 | + | 9.34E-04 | 1.95E-02 | | [hormone-mediated signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0009755) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009755&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009755&list=upload_1&organism=Homo%20sapiens) | 4.66 | 2.79 | + | 1.41E-03 | 2.73E-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) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&list=upload_1&organism=Homo%20sapiens) | 5.40 | 2.78 | + | 6.60E-04 | 1.46E-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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006986&list=upload_1&organism=Homo%20sapiens) | 4.37 | 2.74 | + | 2.41E-03 | 4.15E-02 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035966&list=upload_1&organism=Homo%20sapiens) | 5.16 | 2.72 | + | 1.20E-03 | 2.39E-02 | | [response to estradiol](http://amigo.geneontology.org/amigo/term/GO:0032355) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&list=upload_1&organism=Homo%20sapiens) | 4.37 | 2.74 | + | 2.41E-03 | 4.14E-02 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048639&list=upload_1&organism=Homo%20sapiens) | 5.83 | 2.74 | + | 4.97E-04 | 1.16E-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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&list=upload_1&organism=Homo%20sapiens) | 5.12 | 2.73 | + | 1.13E-03 | 2.27E-02 | | [response to radiation](http://amigo.geneontology.org/amigo/term/GO:0009314) | [449](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&list=upload_1&organism=Homo%20sapiens) | 15.96 | 2.19 | + | 3.72E-05 | 1.28E-03 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050729&list=upload_1&organism=Homo%20sapiens) | 5.12 | 2.73 | + | 1.13E-03 | 2.27E-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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050727&list=upload_1&organism=Homo%20sapiens) | 13.23 | 2.65 | + | 6.78E-07 | 3.64E-05 | | [positive regulation of B cell activation](http://amigo.geneontology.org/amigo/term/GO:0050871) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050871&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050871&list=upload_1&organism=Homo%20sapiens) | 6.22 | 2.73 | + | 3.52E-04 | 8.52E-03 | | [regulation of B cell activation](http://amigo.geneontology.org/amigo/term/GO:0050864) | [223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050864&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050864&list=upload_1&organism=Homo%20sapiens) | 7.93 | 2.40 | + | 9.34E-04 | 1.94E-02 | | [regulation of lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0051249) | [591](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&list=upload_1&organism=Homo%20sapiens) | 21.01 | 2.28 | + | 4.01E-07 | 2.28E-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) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002694&list=upload_1&organism=Homo%20sapiens) | 24.32 | 2.10 | + | 2.29E-06 | 1.08E-04 | | [regulation of cell activation](http://amigo.geneontology.org/amigo/term/GO:0050865) | [741](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&list=upload_1&organism=Homo%20sapiens) | 26.34 | 2.05 | + | 2.09E-06 | 1.00E-04 | | [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) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051251&list=upload_1&organism=Homo%20sapiens) | 14.97 | 2.54 | + | 6.76E-07 | 3.65E-05 | | [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) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002696&list=upload_1&organism=Homo%20sapiens) | 16.67 | 2.40 | + | 1.42E-06 | 7.08E-05 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050867&list=upload_1&organism=Homo%20sapiens) | 17.28 | 2.37 | + | 1.23E-06 | 6.22E-05 | | [myeloid leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002573) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&list=upload_1&organism=Homo%20sapiens) | 4.76 | 2.73 | + | 1.70E-03 | 3.18E-02 | | [myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030099) | [264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&list=upload_1&organism=Homo%20sapiens) | 9.39 | 2.56 | + | 1.02E-04 | 3.01E-03 | | [hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:0030097) | [660](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&list=upload_1&organism=Homo%20sapiens) | 23.46 | 1.88 | + | 1.30E-04 | 3.73E-03 | | [leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002521) | [400](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&list=upload_1&organism=Homo%20sapiens) | 14.22 | 1.90 | + | 2.71E-03 | 4.61E-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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051101&list=upload_1&organism=Homo%20sapiens) | 4.41 | 2.72 | + | 2.56E-03 | 4.38E-02 | | [myeloid leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002274) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002274&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002274&list=upload_1&organism=Homo%20sapiens) | 5.26 | 2.66 | + | 1.43E-03 | 2.75E-02 | | [cell activation](http://amigo.geneontology.org/amigo/term/GO:0001775) | [700](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&list=upload_1&organism=Homo%20sapiens) | 24.89 | 1.69 | + | 1.90E-03 | 3.47E-02 | | [circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0007623) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&list=upload_1&organism=Homo%20sapiens) | 4.91 | 2.65 | + | 2.16E-03 | 3.85E-02 | | [positive regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051099) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&list=upload_1&organism=Homo%20sapiens) | 6.44 | 2.64 | + | 5.02E-04 | 1.17E-02 | | [regulation of macroautophagy](http://amigo.geneontology.org/amigo/term/GO:0016241) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016241&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016241&list=upload_1&organism=Homo%20sapiens) | 5.69 | 2.64 | + | 1.07E-03 | 2.17E-02 | | [regulation of autophagy](http://amigo.geneontology.org/amigo/term/GO:0010506) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&list=upload_1&organism=Homo%20sapiens) | 12.27 | 2.45 | + | 1.92E-05 | 7.17E-04 | | [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) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001936&list=upload_1&organism=Homo%20sapiens) | 4.94 | 2.63 | + | 2.29E-03 | 4.02E-02 | | [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) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&list=upload_1&organism=Homo%20sapiens) | 13.12 | 2.06 | + | 7.05E-04 | 1.54E-02 | | [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) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&list=upload_1&organism=Homo%20sapiens) | 59.52 | 1.83 | + | 3.40E-09 | 3.04E-07 | | [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) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050731&list=upload_1&organism=Homo%20sapiens) | 6.86 | 2.62 | + | 3.76E-04 | 9.05E-03 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050730&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.26 | + | 8.34E-04 | 1.76E-02 | | [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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070374&list=upload_1&organism=Homo%20sapiens) | 7.71 | 2.59 | + | 2.10E-04 | 5.60E-03 | | [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) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&list=upload_1&organism=Homo%20sapiens) | 7.43 | 2.56 | + | 3.51E-04 | 8.53E-03 | | [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) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&list=upload_1&organism=Homo%20sapiens) | 33.74 | 1.87 | + | 5.09E-06 | 2.23E-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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043524&list=upload_1&organism=Homo%20sapiens) | 5.51 | 2.54 | + | 2.13E-03 | 3.82E-02 | | [antimicrobial humoral response](http://amigo.geneontology.org/amigo/term/GO:0019730) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019730&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019730&list=upload_1&organism=Homo%20sapiens) | 5.12 | 2.54 | + | 3.03E-03 | 4.97E-02 | | [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) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098542&list=upload_1&organism=Homo%20sapiens) | 37.97 | 1.98 | + | 6.38E-08 | 4.53E-06 | | [response to other organism](http://amigo.geneontology.org/amigo/term/GO:0051707) | [1429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&list=upload_1&organism=Homo%20sapiens) | 50.81 | 1.97 | + | 3.47E-10 | 3.42E-08 | | [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) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&list=upload_1&organism=Homo%20sapiens) | 56.96 | 1.97 | + | 2.67E-11 | 3.08E-09 | | [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) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043207&list=upload_1&organism=Homo%20sapiens) | 50.91 | 1.96 | + | 5.32E-10 | 5.08E-08 | | [defense response](http://amigo.geneontology.org/amigo/term/GO:0006952) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&list=upload_1&organism=Homo%20sapiens) | 52.55 | 1.90 | + | 2.37E-09 | 2.16E-07 | | [establishment of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:0090150) | [214](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090150&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090150&list=upload_1&organism=Homo%20sapiens) | 7.61 | 2.50 | + | 7.39E-04 | 1.60E-02 | | [protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:0072657) | [451](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072657&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072657&list=upload_1&organism=Homo%20sapiens) | 16.03 | 2.25 | + | 2.07E-05 | 7.65E-04 | | [localization within membrane](http://amigo.geneontology.org/amigo/term/GO:0051668) | [541](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051668&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051668&list=upload_1&organism=Homo%20sapiens) | 19.23 | 1.92 | + | 2.84E-04 | 7.15E-03 | | [T cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030217) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030217&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030217&list=upload_1&organism=Homo%20sapiens) | 6.01 | 2.50 | + | 1.76E-03 | 3.28E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031669&list=upload_1&organism=Homo%20sapiens) | 8.03 | 2.49 | + | 5.19E-04 | 1.19E-02 | | [response to nutrient levels](http://amigo.geneontology.org/amigo/term/GO:0031667) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031667&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031667&list=upload_1&organism=Homo%20sapiens) | 16.71 | 2.15 | + | 5.42E-05 | 1.78E-03 | | [response to extracellular stimulus](http://amigo.geneontology.org/amigo/term/GO:0009991) | [500](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009991&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009991&list=upload_1&organism=Homo%20sapiens) | 17.78 | 2.14 | + | 3.17E-05 | 1.11E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031668&list=upload_1&organism=Homo%20sapiens) | 9.10 | 2.42 | + | 3.16E-04 | 7.82E-03 | | [defense response to bacterium](http://amigo.geneontology.org/amigo/term/GO:0042742) | [376](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042742&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042742&list=upload_1&organism=Homo%20sapiens) | 13.37 | 2.47 | + | 6.11E-06 | 2.61E-04 | | [response to bacterium](http://amigo.geneontology.org/amigo/term/GO:0009617) | [754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&list=upload_1&organism=Homo%20sapiens) | 26.81 | 2.24 | + | 3.32E-08 | 2.49E-06 | | [protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:0034504) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&list=upload_1&organism=Homo%20sapiens) | 6.90 | 2.46 | + | 1.63E-03 | 3.08E-02 | | [protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0033365) | [694](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&list=upload_1&organism=Homo%20sapiens) | 24.67 | 2.03 | + | 7.43E-06 | 3.12E-04 | | [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) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902107&list=upload_1&organism=Homo%20sapiens) | 6.51 | 2.46 | + | 1.45E-03 | 2.78E-02 | | [positive regulation of hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:1903708) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903708&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903708&list=upload_1&organism=Homo%20sapiens) | 6.51 | 2.46 | + | 1.45E-03 | 2.78E-02 | | [regulation of leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:1902105) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&list=upload_1&organism=Homo%20sapiens) | 11.23 | 2.05 | + | 2.16E-03 | 3.85E-02 | | [protein polyubiquitination](http://amigo.geneontology.org/amigo/term/GO:0000209) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000209&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000209&list=upload_1&organism=Homo%20sapiens) | 8.18 | 2.45 | + | 5.75E-04 | 1.30E-02 | | [protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0016567) | [684](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016567&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016567&list=upload_1&organism=Homo%20sapiens) | 24.32 | 1.77 | + | 5.57E-04 | 1.27E-02 | | [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) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032446&list=upload_1&organism=Homo%20sapiens) | 26.77 | 1.83 | + | 9.87E-05 | 2.93E-03 | | [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) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070647&list=upload_1&organism=Homo%20sapiens) | 31.93 | 1.72 | + | 1.70E-04 | 4.68E-03 | | [response to hypoxia](http://amigo.geneontology.org/amigo/term/GO:0001666) | [277](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&list=upload_1&organism=Homo%20sapiens) | 9.85 | 2.44 | + | 1.49E-04 | 4.19E-03 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036293&list=upload_1&organism=Homo%20sapiens) | 10.31 | 2.42 | + | 1.12E-04 | 3.26E-03 | | [response to oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0070482) | [319](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&list=upload_1&organism=Homo%20sapiens) | 11.34 | 2.20 | + | 4.49E-04 | 1.06E-02 | | [tissue homeostasis](http://amigo.geneontology.org/amigo/term/GO:0001894) | [245](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&list=upload_1&organism=Homo%20sapiens) | 8.71 | 2.41 | + | 4.53E-04 | 1.07E-02 | | [multicellular organismal homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048871) | [380](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&list=upload_1&organism=Homo%20sapiens) | 13.51 | 2.07 | + | 5.05E-04 | 1.17E-02 | | [anatomical structure homeostasis](http://amigo.geneontology.org/amigo/term/GO:0060249) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060249&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060249&list=upload_1&organism=Homo%20sapiens) | 10.77 | 2.32 | + | 1.92E-04 | 5.21E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048872&list=upload_1&organism=Homo%20sapiens) | 9.14 | 2.41 | + | 3.27E-04 | 8.03E-03 | | [regulation of cell size](http://amigo.geneontology.org/amigo/term/GO:0008361) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&list=upload_1&organism=Homo%20sapiens) | 6.76 | 2.37 | + | 2.80E-03 | 4.74E-02 | | [regulation of cellular component size](http://amigo.geneontology.org/amigo/term/GO:0032535) | [372](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032535&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032535&list=upload_1&organism=Homo%20sapiens) | 13.23 | 2.19 | + | 2.31E-04 | 6.07E-03 | | [regulation of anatomical structure size](http://amigo.geneontology.org/amigo/term/GO:0090066) | [511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090066&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090066&list=upload_1&organism=Homo%20sapiens) | 18.17 | 2.15 | + | 2.26E-05 | 8.29E-04 | | [Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0016055) | [285](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016055&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016055&list=upload_1&organism=Homo%20sapiens) | 10.13 | 2.37 | + | 2.03E-04 | 5.47E-03 | | [cell-cell signaling by wnt](http://amigo.geneontology.org/amigo/term/GO:0198738) | [285](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0198738&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0198738&list=upload_1&organism=Homo%20sapiens) | 10.13 | 2.37 | + | 2.03E-04 | 5.47E-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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008016&list=upload_1&organism=Homo%20sapiens) | 7.18 | 2.37 | + | 1.99E-03 | 3.62E-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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903522&list=upload_1&organism=Homo%20sapiens) | 8.92 | 2.47 | + | 2.68E-04 | 6.87E-03 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071219&list=upload_1&organism=Homo%20sapiens) | 7.25 | 2.34 | + | 2.12E-03 | 3.81E-02 | | [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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002237&list=upload_1&organism=Homo%20sapiens) | 11.77 | 2.21 | + | 3.28E-04 | 8.00E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071216&list=upload_1&organism=Homo%20sapiens) | 8.21 | 2.44 | + | 5.92E-04 | 1.33E-02 | | [regulation of blood pressure](http://amigo.geneontology.org/amigo/term/GO:0008217) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008217&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008217&list=upload_1&organism=Homo%20sapiens) | 6.83 | 2.34 | + | 2.96E-03 | 4.87E-02 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050870&list=upload_1&organism=Homo%20sapiens) | 8.99 | 2.33 | + | 6.07E-04 | 1.35E-02 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903039&list=upload_1&organism=Homo%20sapiens) | 9.81 | 2.34 | + | 3.13E-04 | 7.75E-03 | | [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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903037&list=upload_1&organism=Homo%20sapiens) | 13.12 | 1.98 | + | 1.79E-03 | 3.32E-02 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022407&list=upload_1&organism=Homo%20sapiens) | 17.21 | 1.80 | + | 2.92E-03 | 4.85E-02 | | [regulation of cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0030155) | [789](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&list=upload_1&organism=Homo%20sapiens) | 28.05 | 1.93 | + | 1.11E-05 | 4.41E-04 | | [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) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022409&list=upload_1&organism=Homo%20sapiens) | 11.52 | 2.08 | + | 1.45E-03 | 2.78E-02 | | [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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045785&list=upload_1&organism=Homo%20sapiens) | 17.35 | 2.07 | + | 8.07E-05 | 2.49E-03 | | [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) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050863&list=upload_1&organism=Homo%20sapiens) | 13.40 | 2.16 | + | 2.52E-04 | 6.53E-03 | | [response to lipopolysaccharide](http://amigo.geneontology.org/amigo/term/GO:0032496) | [313](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&list=upload_1&organism=Homo%20sapiens) | 11.13 | 2.25 | + | 3.78E-04 | 9.09E-03 | | [regulation of angiogenesis](http://amigo.geneontology.org/amigo/term/GO:0045765) | [288](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045765&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045765&list=upload_1&organism=Homo%20sapiens) | 10.24 | 2.25 | + | 7.13E-04 | 1.55E-02 | | [regulation of vasculature development](http://amigo.geneontology.org/amigo/term/GO:1901342) | [292](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901342&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901342&list=upload_1&organism=Homo%20sapiens) | 10.38 | 2.22 | + | 7.83E-04 | 1.66E-02 | | [vascular process in circulatory system](http://amigo.geneontology.org/amigo/term/GO:0003018) | [267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003018&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003018&list=upload_1&organism=Homo%20sapiens) | 9.49 | 2.21 | + | 1.48E-03 | 2.82E-02 | | [cellular component disassembly](http://amigo.geneontology.org/amigo/term/GO:0022411) | [318](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&list=upload_1&organism=Homo%20sapiens) | 11.31 | 2.21 | + | 4.35E-04 | 1.04E-02 | | [protein targeting](http://amigo.geneontology.org/amigo/term/GO:0006605) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006605&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006605&list=upload_1&organism=Homo%20sapiens) | 8.64 | 2.20 | + | 2.90E-03 | 4.85E-02 | | [regulation of cell morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0022604) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022604&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022604&list=upload_1&organism=Homo%20sapiens) | 11.16 | 2.15 | + | 7.67E-04 | 1.64E-02 | | [actin filament organization](http://amigo.geneontology.org/amigo/term/GO:0007015) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007015&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007015&list=upload_1&organism=Homo%20sapiens) | 9.78 | 2.15 | + | 1.79E-03 | 3.32E-02 | | [supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:0097435) | [580](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&list=upload_1&organism=Homo%20sapiens) | 20.62 | 1.99 | + | 7.10E-05 | 2.23E-03 | | [actin cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0030036) | [549](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030036&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030036&list=upload_1&organism=Homo%20sapiens) | 19.52 | 1.79 | + | 1.65E-03 | 3.09E-02 | | [cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0007010) | [1240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&list=upload_1&organism=Homo%20sapiens) | 44.09 | 1.77 | + | 2.32E-06 | 1.08E-04 | | [actin filament-based process](http://amigo.geneontology.org/amigo/term/GO:0030029) | [611](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&list=upload_1&organism=Homo%20sapiens) | 21.72 | 1.70 | + | 2.83E-03 | 4.77E-02 | | [innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045087) | [832](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&list=upload_1&organism=Homo%20sapiens) | 29.58 | 2.13 | + | 8.55E-08 | 5.88E-06 | | [cell migration](http://amigo.geneontology.org/amigo/term/GO:0016477) | [903](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&reflist=1) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&list=upload_1&organism=Homo%20sapiens) | 32.10 | 2.12 | + | 2.28E-08 | 1.76E-06 | | [cell motility](http://amigo.geneontology.org/amigo/term/GO:0048870) | [1061](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&list=upload_1&organism=Homo%20sapiens) | 37.72 | 1.94 | + | 2.25E-07 | 1.38E-05 | | [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) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&list=upload_1&organism=Homo%20sapiens) | 12.34 | 2.11 | + | 7.50E-04 | 1.61E-02 | | [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) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&list=upload_1&organism=Homo%20sapiens) | 20.44 | 2.05 | + | 2.57E-05 | 9.19E-04 | | [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) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&list=upload_1&organism=Homo%20sapiens) | 20.83 | 2.21 | + | 1.93E-06 | 9.47E-05 | | [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) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&list=upload_1&organism=Homo%20sapiens) | 21.26 | 2.21 | + | 1.40E-06 | 7.04E-05 | | [cellular macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044265) | [785](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&list=upload_1&organism=Homo%20sapiens) | 27.91 | 1.90 | + | 2.48E-05 | 8.96E-04 | | [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) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&list=upload_1&organism=Homo%20sapiens) | 23.00 | 2.04 | + | 1.02E-05 | 4.13E-04 | | [proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0010498) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&list=upload_1&organism=Homo%20sapiens) | 13.44 | 2.01 | + | 1.25E-03 | 2.48E-02 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072594&list=upload_1&organism=Homo%20sapiens) | 11.87 | 2.11 | + | 1.01E-03 | 2.07E-02 | | [regulation of transmembrane transporter activity](http://amigo.geneontology.org/amigo/term/GO:0022898) | [282](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022898&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022898&list=upload_1&organism=Homo%20sapiens) | 10.03 | 2.09 | + | 2.20E-03 | 3.90E-02 | | [response to xenobiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009410) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&list=upload_1&organism=Homo%20sapiens) | 15.04 | 2.06 | + | 3.37E-04 | 8.20E-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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009416&list=upload_1&organism=Homo%20sapiens) | 11.27 | 2.04 | + | 2.20E-03 | 3.90E-02 | | [axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0007409) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&list=upload_1&organism=Homo%20sapiens) | 12.98 | 2.00 | + | 1.69E-03 | 3.16E-02 | | [cell morphogenesis involved in neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0048667) | [440](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&list=upload_1&organism=Homo%20sapiens) | 15.64 | 2.11 | + | 1.58E-04 | 4.44E-03 | | [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) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&list=upload_1&organism=Homo%20sapiens) | 19.77 | 1.97 | + | 1.30E-04 | 3.74E-03 | | [cell morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0000902) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&list=upload_1&organism=Homo%20sapiens) | 25.35 | 1.93 | + | 2.62E-05 | 9.35E-04 | | [neuron projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048812) | [479](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&list=upload_1&organism=Homo%20sapiens) | 17.03 | 2.00 | + | 2.96E-04 | 7.41E-03 | | [plasma membrane bounded cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0120039) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&list=upload_1&organism=Homo%20sapiens) | 17.21 | 1.98 | + | 3.27E-04 | 8.01E-03 | | [cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048858) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&list=upload_1&organism=Homo%20sapiens) | 17.39 | 1.96 | + | 3.67E-04 | 8.87E-03 | | [cell part morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032990) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&list=upload_1&organism=Homo%20sapiens) | 18.06 | 1.88 | + | 7.27E-04 | 1.58E-02 | | [cellular component morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032989) | [604](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&list=upload_1&organism=Homo%20sapiens) | 21.47 | 1.77 | + | 1.26E-03 | 2.49E-02 | | [axon development](http://amigo.geneontology.org/amigo/term/GO:0061564) | [404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&list=upload_1&organism=Homo%20sapiens) | 14.36 | 2.02 | + | 6.94E-04 | 1.52E-02 | | [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) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&list=upload_1&organism=Homo%20sapiens) | 11.59 | 1.98 | + | 2.72E-03 | 4.63E-02 | | [inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0006954) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&list=upload_1&organism=Homo%20sapiens) | 19.20 | 1.98 | + | 1.66E-04 | 4.62E-03 | | [response to virus](http://amigo.geneontology.org/amigo/term/GO:0009615) | [357](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009615&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009615&list=upload_1&organism=Homo%20sapiens) | 12.69 | 1.97 | + | 2.44E-03 | 4.19E-02 | | [blood vessel morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048514) | [421](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048514&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048514&list=upload_1&organism=Homo%20sapiens) | 14.97 | 1.94 | + | 1.42E-03 | 2.72E-02 | | [blood vessel development](http://amigo.geneontology.org/amigo/term/GO:0001568) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&list=upload_1&organism=Homo%20sapiens) | 18.13 | 1.93 | + | 4.52E-04 | 1.07E-02 | | [vasculature development](http://amigo.geneontology.org/amigo/term/GO:0001944) | [532](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&list=upload_1&organism=Homo%20sapiens) | 18.91 | 1.96 | + | 2.39E-04 | 6.24E-03 | | [circulatory system development](http://amigo.geneontology.org/amigo/term/GO:0072359) | [909](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&list=upload_1&organism=Homo%20sapiens) | 32.32 | 1.67 | + | 3.85E-04 | 9.22E-03 | | [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) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901987&list=upload_1&organism=Homo%20sapiens) | 15.32 | 1.89 | + | 1.68E-03 | 3.16E-02 | | [organelle localization](http://amigo.geneontology.org/amigo/term/GO:0051640) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051640&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051640&list=upload_1&organism=Homo%20sapiens) | 18.24 | 1.86 | + | 1.14E-03 | 2.28E-02 | | [chromosome organization](http://amigo.geneontology.org/amigo/term/GO:0051276) | [444](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&list=upload_1&organism=Homo%20sapiens) | 15.79 | 1.84 | + | 2.92E-03 | 4.86E-02 | | [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) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&list=upload_1&organism=Homo%20sapiens) | 32.82 | 1.77 | + | 6.60E-05 | 2.10E-03 | | [behavior](http://amigo.geneontology.org/amigo/term/GO:0007610) | [606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&list=upload_1&organism=Homo%20sapiens) | 21.55 | 1.76 | + | 1.29E-03 | 2.53E-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) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045944&list=upload_1&organism=Homo%20sapiens) | 44.76 | 1.65 | + | 4.70E-05 | 1.58E-03 | | [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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045893&list=upload_1&organism=Homo%20sapiens) | 60.97 | 1.69 | + | 3.65E-07 | 2.09E-05 | | [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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903508&list=upload_1&organism=Homo%20sapiens) | 60.97 | 1.69 | + | 3.65E-07 | 2.10E-05 | | [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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902680&list=upload_1&organism=Homo%20sapiens) | 61.19 | 1.68 | + | 5.23E-07 | 2.88E-05 | | [positive regulation of RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051254) | 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[1327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&list=upload_1&organism=Homo%20sapiens) | 47.18 | 1.53 | + | 5.93E-04 | 1.33E-02 | | [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) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051253&list=upload_1&organism=Homo%20sapiens) | 51.02 | 1.55 | + | 1.79E-04 | 4.90E-03 | | [cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007049) | [1249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&list=upload_1&organism=Homo%20sapiens) | 44.41 | 1.51 | + | 1.28E-03 | 2.53E-02 | | 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) | 96.88 | .20 | - | 2.93E-23 | 1.44E-20 | | [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) | [0](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050911&list=upload_1&organism=Homo%20sapiens) | 15.75 | < 0.01 | - | 4.02E-07 | 2.28E-05 | | [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) | [1](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050907&list=upload_1&organism=Homo%20sapiens) | 17.39 | .06 | - | 9.91E-07 | 5.11E-05 | | [detection of stimulus involved in sensory perception](http://amigo.geneontology.org/amigo/term/GO:0050906) | [560](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050906&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050906&list=upload_1&organism=Homo%20sapiens) | 19.91 | .20 | - | 3.25E-05 | 1.14E-03 | | [detection of stimulus](http://amigo.geneontology.org/amigo/term/GO:0051606) | [686](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051606&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051606&list=upload_1&organism=Homo%20sapiens) | 24.39 | .37 | - | 6.34E-04 | 1.41E-02 | | [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) | 18.70 | .21 | - | 9.01E-05 | 2.71E-03 | | [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) | [2](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007606&list=upload_1&organism=Homo%20sapiens) | 19.59 | .10 | - | 1.29E-06 | 6.51E-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) | [0](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007608&list=upload_1&organism=Homo%20sapiens) | 16.71 | < 0.01 | - | 1.12E-07 | 7.45E-06 | |

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