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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 | [564](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) out of 972 |
| Unmapped IDs: | [0](http://pantherdb.org/tools/unmappedBinom.jsp?refList=1) | [633](http://pantherdb.org/tools/unmappedBinom.jsp?listName=upload_1) |
| Multiple mapping information: | 0 | [475](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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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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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) | | [regulation of extracellular exosome assembly](http://amigo.geneontology.org/amigo/term/GO:1903551) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903551&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903551&list=upload_1&organism=Homo%20sapiens) | .28 | 14.12 | + | 6.93E-04 | 2.84E-02 | | [regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044087) | [951](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&list=upload_1&organism=Homo%20sapiens) | 44.90 | 1.74 | + | 6.76E-06 | 5.43E-04 | | [regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0050794) | [11187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&reflist=1) | [654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&list=upload_1&organism=Homo%20sapiens) | 528.13 | 1.24 | + | 1.06E-15 | 9.78E-13 | | [regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0050789) | [11806](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&reflist=1) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&list=upload_1&organism=Homo%20sapiens) | 557.36 | 1.22 | + | 8.36E-16 | 8.19E-13 | | [biological regulation](http://amigo.geneontology.org/amigo/term/GO:0065007) | [12544](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&reflist=1) | [715](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&list=upload_1&organism=Homo%20sapiens) | 592.20 | 1.21 | + | 7.04E-16 | 7.36E-13 | | [regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0033043) | [1189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&reflist=1) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&list=upload_1&organism=Homo%20sapiens) | 56.13 | 2.07 | + | 1.58E-12 | 7.52E-10 | | [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) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&list=upload_1&organism=Homo%20sapiens) | 111.60 | 1.79 | + | 2.86E-15 | 2.24E-12 | | [determination of digestive tract left/right asymmetry](http://amigo.geneontology.org/amigo/term/GO:0071907) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071907&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071907&list=upload_1&organism=Homo%20sapiens) | .33 | 12.10 | + | 1.05E-03 | 3.99E-02 | | [tube development](http://amigo.geneontology.org/amigo/term/GO:0035295) | [885](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&list=upload_1&organism=Homo%20sapiens) | 41.78 | 1.56 | + | 7.57E-04 | 3.05E-02 | | [anatomical structure development](http://amigo.geneontology.org/amigo/term/GO:0048856) | [5144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&reflist=1) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&list=upload_1&organism=Homo%20sapiens) | 242.85 | 1.37 | + | 5.39E-10 | 1.54E-07 | | [developmental process](http://amigo.geneontology.org/amigo/term/GO:0032502) | [5677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&reflist=1) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&list=upload_1&organism=Homo%20sapiens) | 268.01 | 1.37 | + | 1.90E-11 | 7.63E-09 | | [multicellular organism development](http://amigo.geneontology.org/amigo/term/GO:0007275) | [4228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&reflist=1) | [282](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&list=upload_1&organism=Homo%20sapiens) | 199.60 | 1.41 | + | 9.57E-10 | 2.50E-07 | | [multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0032501) | [6581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&reflist=1) | [390](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&list=upload_1&organism=Homo%20sapiens) | 310.69 | 1.26 | + | 1.94E-07 | 2.45E-05 | | [system development](http://amigo.geneontology.org/amigo/term/GO:0048731) | [3838](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&reflist=1) | [263](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&list=upload_1&organism=Homo%20sapiens) | 181.19 | 1.45 | + | 3.88E-10 | 1.17E-07 | | [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) | .57 | 8.83 | + | 7.24E-04 | 2.94E-02 | | [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) | 24.93 | 1.85 | + | 2.04E-04 | 1.07E-02 | | [vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0016192) | [1382](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&list=upload_1&organism=Homo%20sapiens) | 65.24 | 1.46 | + | 4.32E-04 | 1.94E-02 | | [transport](http://amigo.geneontology.org/amigo/term/GO:0006810) | [3840](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&reflist=1) | [258](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&list=upload_1&organism=Homo%20sapiens) | 181.29 | 1.42 | + | 4.10E-09 | 9.19E-07 | | [establishment of localization](http://amigo.geneontology.org/amigo/term/GO:0051234) | [3997](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&reflist=1) | [268](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&list=upload_1&organism=Homo%20sapiens) | 188.70 | 1.42 | + | 2.00E-09 | 4.91E-07 | | [localization](http://amigo.geneontology.org/amigo/term/GO:0051179) | [4566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&reflist=1) | [298](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&list=upload_1&organism=Homo%20sapiens) | 215.56 | 1.38 | + | 2.65E-09 | 6.30E-07 | | [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) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&list=upload_1&organism=Homo%20sapiens) | 59.34 | 1.50 | + | 3.03E-04 | 1.47E-02 | | [regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009966) | [2989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&reflist=1) | [204](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&list=upload_1&organism=Homo%20sapiens) | 141.11 | 1.45 | + | 1.23E-07 | 1.64E-05 | | [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) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&list=upload_1&organism=Homo%20sapiens) | 190.44 | 1.43 | + | 8.14E-10 | 2.20E-07 | | [regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010646) | [3369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&reflist=1) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&list=upload_1&organism=Homo%20sapiens) | 159.05 | 1.43 | + | 3.28E-08 | 5.10E-06 | | [regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023051) | [3381](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&reflist=1) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&list=upload_1&organism=Homo%20sapiens) | 159.62 | 1.44 | + | 1.61E-08 | 2.87E-06 | | [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) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&list=upload_1&organism=Homo%20sapiens) | 64.06 | 1.45 | + | 6.24E-04 | 2.64E-02 | | [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) | [343](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&list=upload_1&organism=Homo%20sapiens) | 223.40 | 1.54 | + | 2.78E-17 | 3.96E-14 | | [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) | [382](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&list=upload_1&organism=Homo%20sapiens) | 250.87 | 1.52 | + | 3.14E-19 | 8.21E-16 | | [negative regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023057) | [1363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&list=upload_1&organism=Homo%20sapiens) | 64.35 | 1.45 | + | 6.44E-04 | 2.70E-02 | | [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) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&list=upload_1&organism=Homo%20sapiens) | 76.48 | 1.53 | + | 9.91E-06 | 7.51E-04 | | [negative regulation of pathway-restricted SMAD protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0060394) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060394&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060394&list=upload_1&organism=Homo%20sapiens) | .61 | 8.15 | + | 9.66E-04 | 3.71E-02 | | [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) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&list=upload_1&organism=Homo%20sapiens) | 23.75 | 1.85 | + | 2.20E-04 | 1.13E-02 | | [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) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&list=upload_1&organism=Homo%20sapiens) | 49.19 | 1.89 | + | 2.40E-08 | 3.97E-06 | | [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) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&list=upload_1&organism=Homo%20sapiens) | 122.13 | 1.72 | + | 2.19E-14 | 1.37E-11 | | [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) | [395](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&list=upload_1&organism=Homo%20sapiens) | 277.22 | 1.42 | + | 3.11E-15 | 2.32E-12 | | [regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019222) | [6754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&reflist=1) | [451](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&list=upload_1&organism=Homo%20sapiens) | 318.85 | 1.41 | + | 9.86E-18 | 1.93E-14 | | [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) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&list=upload_1&organism=Homo%20sapiens) | 293.36 | 1.44 | + | 1.22E-17 | 2.12E-14 | | [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) | [386](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&list=upload_1&organism=Homo%20sapiens) | 269.52 | 1.43 | + | 4.35E-15 | 3.10E-12 | | [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) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&list=upload_1&organism=Homo%20sapiens) | 130.49 | 1.67 | + | 1.07E-13 | 6.23E-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) | [227](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&list=upload_1&organism=Homo%20sapiens) | 141.06 | 1.61 | + | 1.22E-12 | 6.00E-10 | | [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) | [188](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&list=upload_1&organism=Homo%20sapiens) | 113.73 | 1.65 | + | 2.06E-11 | 8.07E-09 | | [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) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&list=upload_1&organism=Homo%20sapiens) | 73.79 | 1.67 | + | 8.56E-08 | 1.19E-05 | | [regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042325) | [1248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&reflist=1) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&list=upload_1&organism=Homo%20sapiens) | 58.92 | 1.54 | + | 9.73E-05 | 5.69E-03 | | [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) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&list=upload_1&organism=Homo%20sapiens) | 66.28 | 1.58 | + | 8.07E-06 | 6.36E-04 | | [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) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&list=upload_1&organism=Homo%20sapiens) | 66.33 | 1.58 | + | 8.15E-06 | 6.39E-04 | | [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) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&list=upload_1&organism=Homo%20sapiens) | 266.59 | 1.40 | + | 3.39E-13 | 1.83E-10 | | [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) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&list=upload_1&organism=Homo%20sapiens) | 106.88 | 1.57 | + | 1.27E-08 | 2.35E-06 | | [regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001932) | [1105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&list=upload_1&organism=Homo%20sapiens) | 52.17 | 1.50 | + | 6.86E-04 | 2.83E-02 | | [protein transport along microtubule](http://amigo.geneontology.org/amigo/term/GO:0098840) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098840&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098840&list=upload_1&organism=Homo%20sapiens) | .61 | 8.15 | + | 9.66E-04 | 3.70E-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) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099118&list=upload_1&organism=Homo%20sapiens) | .61 | 8.15 | + | 9.66E-04 | 3.69E-02 | | [protein transport](http://amigo.geneontology.org/amigo/term/GO:0015031) | [1179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&list=upload_1&organism=Homo%20sapiens) | 55.66 | 1.71 | + | 1.29E-06 | 1.28E-04 | | [establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0045184) | [1267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&list=upload_1&organism=Homo%20sapiens) | 59.81 | 1.64 | + | 4.11E-06 | 3.48E-04 | | [protein localization](http://amigo.geneontology.org/amigo/term/GO:0008104) | [1919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&list=upload_1&organism=Homo%20sapiens) | 90.60 | 1.53 | + | 1.05E-06 | 1.06E-04 | | [cellular macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0070727) | [1925](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&reflist=1) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&list=upload_1&organism=Homo%20sapiens) | 90.88 | 1.54 | + | 8.10E-07 | 8.47E-05 | | [cellular localization](http://amigo.geneontology.org/amigo/term/GO:0051641) | [2655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&list=upload_1&organism=Homo%20sapiens) | 125.34 | 1.59 | + | 1.28E-10 | 4.29E-08 | | [cellular process](http://amigo.geneontology.org/amigo/term/GO:0009987) | [15044](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&reflist=1) | [848](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&list=upload_1&organism=Homo%20sapiens) | 710.22 | 1.19 | + | 1.09E-25 | 1.71E-21 | | [macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0033036) | [2345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&list=upload_1&organism=Homo%20sapiens) | 110.71 | 1.52 | + | 1.20E-07 | 1.62E-05 | | [nitrogen compound transport](http://amigo.geneontology.org/amigo/term/GO:0071705) | [1589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&reflist=1) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&list=upload_1&organism=Homo%20sapiens) | 75.02 | 1.60 | + | 1.01E-06 | 1.02E-04 | | [organic substance transport](http://amigo.geneontology.org/amigo/term/GO:0071702) | [1964](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&reflist=1) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&list=upload_1&organism=Homo%20sapiens) | 92.72 | 1.45 | + | 3.09E-05 | 2.11E-03 | | [microtubule-based transport](http://amigo.geneontology.org/amigo/term/GO:0099111) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099111&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099111&list=upload_1&organism=Homo%20sapiens) | 9.58 | 2.92 | + | 2.00E-06 | 1.86E-04 | | [microtubule-based process](http://amigo.geneontology.org/amigo/term/GO:0007017) | [809](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007017&list=upload_1&organism=Homo%20sapiens) | 38.19 | 1.99 | + | 7.75E-08 | 1.08E-05 | | [transport along microtubule](http://amigo.geneontology.org/amigo/term/GO:0010970) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010970&list=upload_1&organism=Homo%20sapiens) | 7.60 | 3.03 | + | 9.64E-06 | 7.41E-04 | | [microtubule-based movement](http://amigo.geneontology.org/amigo/term/GO:0007018) | [385](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007018&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007018&list=upload_1&organism=Homo%20sapiens) | 18.18 | 2.15 | + | 2.57E-05 | 1.77E-03 | | [cytoskeleton-dependent intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0030705) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030705&list=upload_1&organism=Homo%20sapiens) | 9.39 | 2.98 | + | 1.41E-06 | 1.37E-04 | | [intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0046907) | [1360](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&reflist=1) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&list=upload_1&organism=Homo%20sapiens) | 64.21 | 1.85 | + | 4.67E-10 | 1.36E-07 | | [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) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051649&list=upload_1&organism=Homo%20sapiens) | 82.71 | 1.79 | + | 2.70E-11 | 9.84E-09 | | [intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0006886) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&list=upload_1&organism=Homo%20sapiens) | 32.20 | 1.89 | + | 8.05E-06 | 6.40E-04 | | [cellular response to interleukin-7](http://amigo.geneontology.org/amigo/term/GO:0098761) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098761&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098761&list=upload_1&organism=Homo%20sapiens) | .66 | 7.57 | + | 1.26E-03 | 4.71E-02 | | [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) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&list=upload_1&organism=Homo%20sapiens) | 95.65 | 1.43 | + | 3.93E-05 | 2.59E-03 | | [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) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&list=upload_1&organism=Homo%20sapiens) | 123.50 | 1.43 | + | 3.14E-06 | 2.80E-04 | | [cellular response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0051716) | [6569](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&reflist=1) | [388](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&list=upload_1&organism=Homo%20sapiens) | 310.12 | 1.25 | + | 2.82E-07 | 3.37E-05 | | [response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0050896) | [8209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&reflist=1) | [475](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&list=upload_1&organism=Homo%20sapiens) | 387.54 | 1.23 | + | 3.14E-08 | 4.97E-06 | | [response to chemical](http://amigo.geneontology.org/amigo/term/GO:0042221) | [4060](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&reflist=1) | [256](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&list=upload_1&organism=Homo%20sapiens) | 191.67 | 1.34 | + | 1.00E-06 | 1.02E-04 | | [response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0010033) | [2704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&reflist=1) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&list=upload_1&organism=Homo%20sapiens) | 127.65 | 1.49 | + | 4.73E-08 | 6.99E-06 | | [response to cytokine](http://amigo.geneontology.org/amigo/term/GO:0034097) | [808](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&list=upload_1&organism=Homo%20sapiens) | 38.15 | 1.57 | + | 1.06E-03 | 4.00E-02 | | [response to interleukin-7](http://amigo.geneontology.org/amigo/term/GO:0098760) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098760&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098760&list=upload_1&organism=Homo%20sapiens) | .66 | 7.57 | + | 1.26E-03 | 4.70E-02 | | [mRNA polyadenylation](http://amigo.geneontology.org/amigo/term/GO:0006378) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006378&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006378&list=upload_1&organism=Homo%20sapiens) | 1.70 | 4.71 | + | 6.92E-04 | 2.84E-02 | | [RNA polyadenylation](http://amigo.geneontology.org/amigo/term/GO:0043631) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043631&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043631&list=upload_1&organism=Homo%20sapiens) | 1.79 | 5.02 | + | 2.15E-04 | 1.11E-02 | | [RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0016070) | [1635](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016070&reflist=1) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016070&list=upload_1&organism=Homo%20sapiens) | 77.19 | 1.79 | + | 1.62E-10 | 5.28E-08 | | [nucleic acid metabolic process](http://amigo.geneontology.org/amigo/term/GO:0090304) | [2276](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090304&reflist=1) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090304&list=upload_1&organism=Homo%20sapiens) | 107.45 | 1.73 | + | 6.59E-13 | 3.33E-10 | | [nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006139) | [2825](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006139&reflist=1) | [214](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006139&list=upload_1&organism=Homo%20sapiens) | 133.37 | 1.60 | + | 8.02E-12 | 3.49E-09 | | [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) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901360&list=upload_1&organism=Homo%20sapiens) | 155.41 | 1.54 | + | 2.18E-11 | 8.33E-09 | | [organic substance metabolic process](http://amigo.geneontology.org/amigo/term/GO:0071704) | [7697](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&reflist=1) | [494](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&list=upload_1&organism=Homo%20sapiens) | 363.37 | 1.36 | + | 1.07E-16 | 1.29E-13 | | [metabolic process](http://amigo.geneontology.org/amigo/term/GO:0008152) | [8131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&reflist=1) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&list=upload_1&organism=Homo%20sapiens) | 383.86 | 1.33 | + | 1.52E-15 | 1.26E-12 | | [heterocycle metabolic process](http://amigo.geneontology.org/amigo/term/GO:0046483) | [2999](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&reflist=1) | [219](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&list=upload_1&organism=Homo%20sapiens) | 141.58 | 1.55 | + | 1.19E-10 | 4.15E-08 | | [cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044237) | [6606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&reflist=1) | [428](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&list=upload_1&organism=Homo%20sapiens) | 311.87 | 1.37 | + | 3.91E-14 | 2.36E-11 | | [primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044238) | [7228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&reflist=1) | [466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&list=upload_1&organism=Homo%20sapiens) | 341.23 | 1.37 | + | 1.34E-15 | 1.17E-12 | | [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) | [225](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006725&list=upload_1&organism=Homo%20sapiens) | 143.99 | 1.56 | + | 2.50E-11 | 9.32E-09 | | [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) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034641&list=upload_1&organism=Homo%20sapiens) | 168.68 | 1.49 | + | 1.23E-10 | 4.19E-08 | | [nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006807) | [6710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&reflist=1) | [448](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&list=upload_1&organism=Homo%20sapiens) | 316.78 | 1.41 | + | 1.59E-17 | 2.49E-14 | | [macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043170) | [5941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&reflist=1) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&list=upload_1&organism=Homo%20sapiens) | 280.47 | 1.47 | + | 1.25E-18 | 2.80E-15 | | [mRNA 3'-end processing](http://amigo.geneontology.org/amigo/term/GO:0031124) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031124&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031124&list=upload_1&organism=Homo%20sapiens) | 2.55 | 4.31 | + | 1.42E-04 | 7.90E-03 | | [mRNA processing](http://amigo.geneontology.org/amigo/term/GO:0006397) | [451](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006397&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006397&list=upload_1&organism=Homo%20sapiens) | 21.29 | 2.44 | + | 2.53E-08 | 4.14E-06 | | [RNA processing](http://amigo.geneontology.org/amigo/term/GO:0006396) | [868](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006396&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006396&list=upload_1&organism=Homo%20sapiens) | 40.98 | 1.73 | + | 1.81E-05 | 1.32E-03 | | [gene expression](http://amigo.geneontology.org/amigo/term/GO:0010467) | [2314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&reflist=1) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&list=upload_1&organism=Homo%20sapiens) | 109.24 | 1.68 | + | 1.78E-11 | 7.33E-09 | | [mRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0016071) | [607](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016071&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016071&list=upload_1&organism=Homo%20sapiens) | 28.66 | 2.27 | + | 7.06E-09 | 1.46E-06 | | [RNA 3'-end processing](http://amigo.geneontology.org/amigo/term/GO:0031123) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031123&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031123&list=upload_1&organism=Homo%20sapiens) | 5.15 | 2.91 | + | 4.69E-04 | 2.08E-02 | | [negative regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032435) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032435&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032435&list=upload_1&organism=Homo%20sapiens) | 1.75 | 4.58 | + | 8.09E-04 | 3.19E-02 | | [negative regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901799) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901799&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901799&list=upload_1&organism=Homo%20sapiens) | 2.31 | 3.89 | + | 1.08E-03 | 4.07E-02 | | [negative regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0042177) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042177&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042177&list=upload_1&organism=Homo%20sapiens) | 5.19 | 2.89 | + | 5.11E-04 | 2.21E-02 | | [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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&list=upload_1&organism=Homo%20sapiens) | 17.33 | 2.14 | + | 4.74E-05 | 3.06E-03 | | [regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009894) | [987](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&list=upload_1&organism=Homo%20sapiens) | 46.60 | 1.91 | + | 2.66E-08 | 4.29E-06 | | [negative regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009895) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&list=upload_1&organism=Homo%20sapiens) | 15.39 | 2.08 | + | 2.51E-04 | 1.27E-02 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&list=upload_1&organism=Homo%20sapiens) | 9.16 | 2.73 | + | 1.98E-05 | 1.43E-03 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&list=upload_1&organism=Homo%20sapiens) | 10.76 | 2.97 | + | 2.68E-07 | 3.26E-05 | | [regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0030162) | [743](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&list=upload_1&organism=Homo%20sapiens) | 35.08 | 1.88 | + | 3.60E-06 | 3.14E-04 | | [negative regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903051) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903051&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903051&list=upload_1&organism=Homo%20sapiens) | 3.07 | 3.91 | + | 1.62E-04 | 8.78E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&list=upload_1&organism=Homo%20sapiens) | 6.70 | 3.28 | + | 4.75E-06 | 3.88E-04 | | [regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000058) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&list=upload_1&organism=Homo%20sapiens) | 8.12 | 3.33 | + | 3.26E-07 | 3.81E-05 | | [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) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&list=upload_1&organism=Homo%20sapiens) | 37.11 | 1.97 | + | 2.09E-07 | 2.60E-05 | | [negative regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000059) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000059&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000059&list=upload_1&organism=Homo%20sapiens) | 2.41 | 4.57 | + | 9.10E-05 | 5.42E-03 | | [negative regulation of cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0031330) | [242](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031330&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031330&list=upload_1&organism=Homo%20sapiens) | 11.42 | 2.19 | + | 5.28E-04 | 2.28E-02 | | [base-excision repair](http://amigo.geneontology.org/amigo/term/GO:0006284) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006284&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006284&list=upload_1&organism=Homo%20sapiens) | 1.98 | 4.54 | + | 4.09E-04 | 1.86E-02 | | [DNA repair](http://amigo.geneontology.org/amigo/term/GO:0006281) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006281&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006281&list=upload_1&organism=Homo%20sapiens) | 23.98 | 1.83 | + | 2.46E-04 | 1.25E-02 | | [cellular response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:0006974) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006974&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006974&list=upload_1&organism=Homo%20sapiens) | 35.69 | 1.68 | + | 1.97E-04 | 1.04E-02 | | [cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0033554) | [1599](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&list=upload_1&organism=Homo%20sapiens) | 75.49 | 1.50 | + | 3.48E-05 | 2.32E-03 | | [response to stress](http://amigo.geneontology.org/amigo/term/GO:0006950) | [3466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&reflist=1) | [227](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&list=upload_1&organism=Homo%20sapiens) | 163.63 | 1.39 | + | 3.99E-07 | 4.57E-05 | | [DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006259) | [794](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&list=upload_1&organism=Homo%20sapiens) | 37.48 | 1.63 | + | 3.86E-04 | 1.77E-02 | | [cellular macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044260) | [2518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&reflist=1) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&list=upload_1&organism=Homo%20sapiens) | 118.87 | 1.47 | + | 4.75E-07 | 5.32E-05 | | [positive regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902895) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902895&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902895&list=upload_1&organism=Homo%20sapiens) | 2.22 | 4.51 | + | 2.08E-04 | 1.08E-02 | | [positive regulation of miRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000630) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000630&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000630&list=upload_1&organism=Homo%20sapiens) | 2.50 | 4.00 | + | 4.81E-04 | 2.13E-02 | | [regulation of miRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:2000628) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000628&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000628&list=upload_1&organism=Homo%20sapiens) | 3.49 | 3.43 | + | 4.65E-04 | 2.06E-02 | | [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) | [245](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051252&list=upload_1&organism=Homo%20sapiens) | 177.13 | 1.38 | + | 1.48E-07 | 1.92E-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) | [265](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&list=upload_1&organism=Homo%20sapiens) | 192.00 | 1.38 | + | 3.66E-08 | 5.57E-06 | | [positive regulation of RNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051254) | [1848](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051254&reflist=1) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051254&list=upload_1&organism=Homo%20sapiens) | 87.24 | 1.65 | + | 1.13E-08 | 2.13E-06 | | [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) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&list=upload_1&organism=Homo%20sapiens) | 97.16 | 1.66 | + | 7.83E-10 | 2.15E-07 | | [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) | [241](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&list=upload_1&organism=Homo%20sapiens) | 149.84 | 1.61 | + | 1.58E-13 | 8.86E-11 | | [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) | [293](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&list=upload_1&organism=Homo%20sapiens) | 182.13 | 1.61 | + | 6.91E-17 | 9.04E-14 | | [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) | [435](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&list=upload_1&organism=Homo%20sapiens) | 297.61 | 1.46 | + | 1.86E-19 | 5.83E-16 | | [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) | [234](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&list=upload_1&organism=Homo%20sapiens) | 147.39 | 1.59 | + | 1.60E-12 | 7.37E-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) | [403](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&list=upload_1&organism=Homo%20sapiens) | 267.68 | 1.51 | + | 1.06E-19 | 4.15E-16 | | [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) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&list=upload_1&organism=Homo%20sapiens) | 167.22 | 1.63 | + | 5.01E-16 | 5.61E-13 | | [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) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045893&list=upload_1&organism=Homo%20sapiens) | 80.96 | 1.68 | + | 1.03E-08 | 2.04E-06 | | [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) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006355&list=upload_1&organism=Homo%20sapiens) | 163.06 | 1.36 | + | 3.48E-06 | 3.07E-04 | | [regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010468) | [4855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&reflist=1) | [327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&list=upload_1&organism=Homo%20sapiens) | 229.20 | 1.43 | + | 4.88E-12 | 2.19E-09 | | [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) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&list=upload_1&organism=Homo%20sapiens) | 163.16 | 1.35 | + | 3.51E-06 | 3.07E-04 | | [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) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&list=upload_1&organism=Homo%20sapiens) | 163.58 | 1.35 | + | 4.42E-06 | 3.69E-04 | | [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) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&list=upload_1&organism=Homo%20sapiens) | 185.91 | 1.40 | + | 1.20E-08 | 2.24E-06 | | [regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009889) | [4163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&reflist=1) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&list=upload_1&organism=Homo%20sapiens) | 196.53 | 1.38 | + | 1.87E-08 | 3.26E-06 | | [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) | [269](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&list=upload_1&organism=Homo%20sapiens) | 193.65 | 1.39 | + | 1.57E-08 | 2.82E-06 | | [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) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903508&list=upload_1&organism=Homo%20sapiens) | 80.96 | 1.68 | + | 1.03E-08 | 2.06E-06 | | [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) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902680&list=upload_1&organism=Homo%20sapiens) | 81.25 | 1.67 | + | 1.13E-08 | 2.16E-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) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&list=upload_1&organism=Homo%20sapiens) | 96.69 | 1.64 | + | 1.97E-09 | 4.90E-07 | | [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) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&list=upload_1&organism=Homo%20sapiens) | 98.53 | 1.63 | + | 1.97E-09 | 4.97E-07 | | [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) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&list=upload_1&organism=Homo%20sapiens) | 91.73 | 1.70 | + | 2.81E-10 | 8.63E-08 | | [regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902893) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&list=upload_1&organism=Homo%20sapiens) | 2.97 | 3.70 | + | 4.57E-04 | 2.04E-02 | | [anterograde axonal transport](http://amigo.geneontology.org/amigo/term/GO:0008089) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008089&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008089&list=upload_1&organism=Homo%20sapiens) | 2.12 | 4.24 | + | 6.34E-04 | 2.67E-02 | | [axonal transport](http://amigo.geneontology.org/amigo/term/GO:0098930) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098930&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098930&list=upload_1&organism=Homo%20sapiens) | 2.83 | 3.88 | + | 3.17E-04 | 1.52E-02 | | [axo-dendritic transport](http://amigo.geneontology.org/amigo/term/GO:0008088) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008088&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008088&list=upload_1&organism=Homo%20sapiens) | 3.45 | 4.06 | + | 3.27E-05 | 2.20E-03 | | [negative regulation of endocytosis](http://amigo.geneontology.org/amigo/term/GO:0045806) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045806&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045806&list=upload_1&organism=Homo%20sapiens) | 2.36 | 4.24 | + | 3.21E-04 | 1.53E-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) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&list=upload_1&organism=Homo%20sapiens) | 32.57 | 2.12 | + | 3.22E-08 | 5.05E-06 | | [regulation of endocytosis](http://amigo.geneontology.org/amigo/term/GO:0030100) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030100&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030100&list=upload_1&organism=Homo%20sapiens) | 9.82 | 2.44 | + | 1.59E-04 | 8.71E-03 | | [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) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&list=upload_1&organism=Homo%20sapiens) | 26.06 | 1.77 | + | 4.21E-04 | 1.90E-02 | | [regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051049) | [1766](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&reflist=1) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&list=upload_1&organism=Homo%20sapiens) | 83.37 | 1.44 | + | 1.19E-04 | 6.78E-03 | | [regulation of localization](http://amigo.geneontology.org/amigo/term/GO:0032879) | [2104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&reflist=1) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&list=upload_1&organism=Homo%20sapiens) | 99.33 | 1.52 | + | 5.44E-07 | 5.92E-05 | | [response to cadmium ion](http://amigo.geneontology.org/amigo/term/GO:0046686) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&list=upload_1&organism=Homo%20sapiens) | 2.88 | 4.17 | + | 9.55E-05 | 5.65E-03 | | [response to metal ion](http://amigo.geneontology.org/amigo/term/GO:0010038) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010038&list=upload_1&organism=Homo%20sapiens) | 17.14 | 2.04 | + | 1.97E-04 | 1.05E-02 | | [response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0010035) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&list=upload_1&organism=Homo%20sapiens) | 25.16 | 1.91 | + | 6.20E-05 | 3.93E-03 | | [regulation of ubiquitin-protein transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051438) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&list=upload_1&organism=Homo%20sapiens) | 2.69 | 3.72 | + | 7.94E-04 | 3.19E-02 | | [regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051338) | [915](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&list=upload_1&organism=Homo%20sapiens) | 43.20 | 1.60 | + | 2.75E-04 | 1.35E-02 | | [regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0050790) | [2373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&reflist=1) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&list=upload_1&organism=Homo%20sapiens) | 112.03 | 1.46 | + | 1.53E-06 | 1.45E-04 | | [regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0065009) | [3094](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&reflist=1) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&list=upload_1&organism=Homo%20sapiens) | 146.07 | 1.46 | + | 3.10E-08 | 4.96E-06 | | [positive regulation of cell morphogenesis involved in differentiation](http://amigo.geneontology.org/amigo/term/GO:0010770) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010770&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010770&list=upload_1&organism=Homo%20sapiens) | 3.92 | 3.57 | + | 1.12E-04 | 6.38E-03 | | [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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010720&list=upload_1&organism=Homo%20sapiens) | 14.54 | 2.20 | + | 9.45E-05 | 5.61E-03 | | [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) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&list=upload_1&organism=Homo%20sapiens) | 41.73 | 1.73 | + | 2.04E-05 | 1.45E-03 | | [regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045595) | [1581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&list=upload_1&organism=Homo%20sapiens) | 74.64 | 1.66 | + | 9.80E-08 | 1.34E-05 | | [regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0050793) | [2489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&reflist=1) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&list=upload_1&organism=Homo%20sapiens) | 117.50 | 1.63 | + | 3.71E-11 | 1.32E-08 | | [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) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&list=upload_1&organism=Homo%20sapiens) | 63.21 | 1.69 | + | 3.56E-07 | 4.14E-05 | | [regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0060284) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&list=upload_1&organism=Homo%20sapiens) | 24.22 | 1.90 | + | 1.08E-04 | 6.23E-03 | | [regulation of cell morphogenesis involved in differentiation](http://amigo.geneontology.org/amigo/term/GO:0010769) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010769&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010769&list=upload_1&organism=Homo%20sapiens) | 4.77 | 3.15 | + | 2.26E-04 | 1.16E-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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022604&list=upload_1&organism=Homo%20sapiens) | 14.82 | 2.16 | + | 1.19E-04 | 6.75E-03 | | [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) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&list=upload_1&organism=Homo%20sapiens) | 43.62 | 1.83 | + | 7.16E-07 | 7.53E-05 | | [mitotic spindle organization](http://amigo.geneontology.org/amigo/term/GO:0007052) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007052&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007052&list=upload_1&organism=Homo%20sapiens) | 4.58 | 3.49 | + | 4.70E-05 | 3.04E-03 | | [microtubule cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0000226) | [547](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&list=upload_1&organism=Homo%20sapiens) | 25.82 | 2.01 | + | 8.05E-06 | 6.38E-04 | | [cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0007010) | [1240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&reflist=1) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&list=upload_1&organism=Homo%20sapiens) | 58.54 | 2.07 | + | 5.63E-13 | 2.94E-10 | | [organelle organization](http://amigo.geneontology.org/amigo/term/GO:0006996) | [3026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&reflist=1) | [219](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&list=upload_1&organism=Homo%20sapiens) | 142.86 | 1.53 | + | 2.55E-10 | 8.16E-08 | | [cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0016043) | [5523](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&reflist=1) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&list=upload_1&organism=Homo%20sapiens) | 260.74 | 1.43 | + | 1.35E-14 | 8.85E-12 | | [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) | [386](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&list=upload_1&organism=Homo%20sapiens) | 270.37 | 1.43 | + | 6.34E-15 | 4.32E-12 | | [cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0022402) | [841](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&list=upload_1&organism=Homo%20sapiens) | 39.70 | 2.01 | + | 2.09E-08 | 3.59E-06 | | [cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007049) | [1249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&list=upload_1&organism=Homo%20sapiens) | 58.96 | 1.85 | + | 4.19E-09 | 9.25E-07 | | [microtubule cytoskeleton organization involved in mitosis](http://amigo.geneontology.org/amigo/term/GO:1902850) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902850&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902850&list=upload_1&organism=Homo%20sapiens) | 6.09 | 3.45 | + | 3.92E-06 | 3.36E-04 | | [mitotic cell cycle process](http://amigo.geneontology.org/amigo/term/GO:1903047) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903047&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903047&list=upload_1&organism=Homo%20sapiens) | 25.16 | 2.38 | + | 4.80E-09 | 1.03E-06 | | [mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000278) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&list=upload_1&organism=Homo%20sapiens) | 29.60 | 2.33 | + | 1.12E-09 | 2.87E-07 | | [regulation of intracellular steroid hormone receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0033143) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033143&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033143&list=upload_1&organism=Homo%20sapiens) | 3.45 | 3.48 | + | 4.17E-04 | 1.89E-02 | | [positive regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901992) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901992&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901992&list=upload_1&organism=Homo%20sapiens) | 4.34 | 3.22 | + | 2.90E-04 | 1.42E-02 | | [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) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&list=upload_1&organism=Homo%20sapiens) | 23.27 | 2.19 | + | 8.96E-07 | 9.24E-05 | | [regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0051726) | [1122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&reflist=1) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&list=upload_1&organism=Homo%20sapiens) | 52.97 | 1.96 | + | 4.08E-10 | 1.21E-07 | | [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) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&list=upload_1&organism=Homo%20sapiens) | 33.75 | 1.90 | + | 3.72E-06 | 3.22E-04 | | [positive regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901989) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901989&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901989&list=upload_1&organism=Homo%20sapiens) | 5.43 | 2.76 | + | 7.74E-04 | 3.11E-02 | | [positive regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0090068) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090068&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090068&list=upload_1&organism=Homo%20sapiens) | 11.85 | 2.36 | + | 1.02E-04 | 5.95E-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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045787&list=upload_1&organism=Homo%20sapiens) | 16.67 | 2.22 | + | 2.01E-05 | 1.44E-03 | | [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) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045931&list=upload_1&organism=Homo%20sapiens) | 5.71 | 3.33 | + | 1.75E-05 | 1.29E-03 | | [mRNA transport](http://amigo.geneontology.org/amigo/term/GO:0051028) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051028&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051028&list=upload_1&organism=Homo%20sapiens) | 6.51 | 3.22 | + | 9.91E-06 | 7.54E-04 | | [RNA transport](http://amigo.geneontology.org/amigo/term/GO:0050658) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050658&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050658&list=upload_1&organism=Homo%20sapiens) | 7.93 | 3.15 | + | 2.09E-06 | 1.92E-04 | | [establishment of RNA localization](http://amigo.geneontology.org/amigo/term/GO:0051236) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051236&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051236&list=upload_1&organism=Homo%20sapiens) | 8.03 | 3.12 | + | 2.53E-06 | 2.27E-04 | | [RNA localization](http://amigo.geneontology.org/amigo/term/GO:0006403) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006403&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006403&list=upload_1&organism=Homo%20sapiens) | 8.97 | 3.01 | + | 1.83E-06 | 1.72E-04 | | [nucleic acid transport](http://amigo.geneontology.org/amigo/term/GO:0050657) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050657&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050657&list=upload_1&organism=Homo%20sapiens) | 7.93 | 3.15 | + | 2.09E-06 | 1.91E-04 | | [nucleobase-containing compound transport](http://amigo.geneontology.org/amigo/term/GO:0015931) | [225](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015931&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015931&list=upload_1&organism=Homo%20sapiens) | 10.62 | 2.45 | + | 8.13E-05 | 4.90E-03 | | [response to cAMP](http://amigo.geneontology.org/amigo/term/GO:0051591) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051591&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051591&list=upload_1&organism=Homo%20sapiens) | 4.39 | 3.19 | + | 3.20E-04 | 1.53E-02 | | [response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0010243) | [968](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&list=upload_1&organism=Homo%20sapiens) | 45.70 | 1.71 | + | 1.17E-05 | 8.67E-04 | | [response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901698) | [1062](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&list=upload_1&organism=Homo%20sapiens) | 50.14 | 1.62 | + | 5.12E-05 | 3.28E-03 | | [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) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&list=upload_1&organism=Homo%20sapiens) | 41.50 | 1.74 | + | 1.92E-05 | 1.39E-03 | | [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) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&list=upload_1&organism=Homo%20sapiens) | 73.22 | 1.63 | + | 5.54E-07 | 5.95E-05 | | [response to estradiol](http://amigo.geneontology.org/amigo/term/GO:0032355) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&list=upload_1&organism=Homo%20sapiens) | 5.81 | 3.10 | + | 6.59E-05 | 4.10E-03 | | [response to lipid](http://amigo.geneontology.org/amigo/term/GO:0033993) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&list=upload_1&organism=Homo%20sapiens) | 39.80 | 1.68 | + | 7.96E-05 | 4.82E-03 | | [regulation of mitotic nuclear division](http://amigo.geneontology.org/amigo/term/GO:0007088) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007088&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007088&list=upload_1&organism=Homo%20sapiens) | 5.57 | 3.05 | + | 1.23E-04 | 6.99E-03 | | [regulation of nuclear division](http://amigo.geneontology.org/amigo/term/GO:0051783) | [145](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051783&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051783&list=upload_1&organism=Homo%20sapiens) | 6.85 | 2.78 | + | 1.56E-04 | 8.58E-03 | | [RNA export from nucleus](http://amigo.geneontology.org/amigo/term/GO:0006405) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006405&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006405&list=upload_1&organism=Homo%20sapiens) | 3.97 | 3.03 | + | 1.26E-03 | 4.71E-02 | | [nuclear export](http://amigo.geneontology.org/amigo/term/GO:0051168) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051168&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051168&list=upload_1&organism=Homo%20sapiens) | 6.28 | 3.66 | + | 5.46E-07 | 5.91E-05 | | [nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0006913) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006913&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006913&list=upload_1&organism=Homo%20sapiens) | 11.71 | 3.07 | + | 2.27E-08 | 3.86E-06 | | [nuclear transport](http://amigo.geneontology.org/amigo/term/GO:0051169) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051169&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051169&list=upload_1&organism=Homo%20sapiens) | 11.71 | 3.07 | + | 2.27E-08 | 3.82E-06 | | [regulation of nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0046822) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&list=upload_1&organism=Homo%20sapiens) | 5.29 | 3.03 | + | 2.11E-04 | 1.09E-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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&list=upload_1&organism=Homo%20sapiens) | 16.15 | 2.11 | + | 1.28E-04 | 7.20E-03 | | [regulation of cellular localization](http://amigo.geneontology.org/amigo/term/GO:0060341) | [962](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&list=upload_1&organism=Homo%20sapiens) | 45.42 | 1.98 | + | 4.42E-09 | 9.63E-07 | | [mitotic sister chromatid segregation](http://amigo.geneontology.org/amigo/term/GO:0000070) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000070&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000070&list=upload_1&organism=Homo%20sapiens) | 5.67 | 3.00 | + | 1.48E-04 | 8.21E-03 | | [mitotic nuclear division](http://amigo.geneontology.org/amigo/term/GO:0140014) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140014&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140014&list=upload_1&organism=Homo%20sapiens) | 8.17 | 2.82 | + | 2.71E-05 | 1.86E-03 | | [nuclear division](http://amigo.geneontology.org/amigo/term/GO:0000280) | [323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000280&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000280&list=upload_1&organism=Homo%20sapiens) | 15.25 | 1.97 | + | 1.02E-03 | 3.88E-02 | | [organelle fission](http://amigo.geneontology.org/amigo/term/GO:0048285) | [349](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048285&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048285&list=upload_1&organism=Homo%20sapiens) | 16.48 | 1.94 | + | 6.91E-04 | 2.84E-02 | | [sister chromatid segregation](http://amigo.geneontology.org/amigo/term/GO:0000819) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000819&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000819&list=upload_1&organism=Homo%20sapiens) | 6.99 | 2.72 | + | 1.98E-04 | 1.04E-02 | | [nuclear chromosome segregation](http://amigo.geneontology.org/amigo/term/GO:0098813) | [234](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098813&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098813&list=upload_1&organism=Homo%20sapiens) | 11.05 | 2.26 | + | 3.79E-04 | 1.75E-02 | | [chromosome segregation](http://amigo.geneontology.org/amigo/term/GO:0007059) | [291](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007059&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007059&list=upload_1&organism=Homo%20sapiens) | 13.74 | 2.11 | + | 3.47E-04 | 1.62E-02 | | [chromosome organization](http://amigo.geneontology.org/amigo/term/GO:0051276) | [444](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051276&list=upload_1&organism=Homo%20sapiens) | 20.96 | 2.15 | + | 6.89E-06 | 5.51E-04 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031398&list=upload_1&organism=Homo%20sapiens) | 5.71 | 2.98 | + | 1.62E-04 | 8.76E-03 | | [positive regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903322) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903322&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903322&list=upload_1&organism=Homo%20sapiens) | 6.61 | 3.03 | + | 3.60E-05 | 2.39E-03 | | [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) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&list=upload_1&organism=Homo%20sapiens) | 48.11 | 1.52 | + | 7.25E-04 | 2.94E-02 | | [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) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&list=upload_1&organism=Homo%20sapiens) | 71.52 | 1.59 | + | 2.12E-06 | 1.93E-04 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903320&list=upload_1&organism=Homo%20sapiens) | 11.94 | 2.85 | + | 2.86E-07 | 3.39E-05 | | [regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031396) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&list=upload_1&organism=Homo%20sapiens) | 9.96 | 2.71 | + | 1.05E-05 | 7.87E-04 | | [actomyosin structure organization](http://amigo.geneontology.org/amigo/term/GO:0031032) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031032&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031032&list=upload_1&organism=Homo%20sapiens) | 5.38 | 2.97 | + | 2.52E-04 | 1.27E-02 | | [actin cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0030036) | [549](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030036&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030036&list=upload_1&organism=Homo%20sapiens) | 25.92 | 2.35 | + | 7.00E-09 | 1.46E-06 | | [actin filament-based process](http://amigo.geneontology.org/amigo/term/GO:0030029) | [611](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030029&list=upload_1&organism=Homo%20sapiens) | 28.85 | 2.22 | + | 2.34E-08 | 3.91E-06 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901222&list=upload_1&organism=Homo%20sapiens) | 4.72 | 2.97 | + | 6.15E-04 | 2.61E-02 | | [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) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&list=upload_1&organism=Homo%20sapiens) | 81.25 | 1.56 | + | 1.36E-06 | 1.34E-04 | | [protein polymerization](http://amigo.geneontology.org/amigo/term/GO:0051258) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051258&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051258&list=upload_1&organism=Homo%20sapiens) | 4.77 | 2.94 | + | 6.72E-04 | 2.80E-02 | | [protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0065003) | [1270](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&list=upload_1&organism=Homo%20sapiens) | 59.96 | 1.45 | + | 8.90E-04 | 3.46E-02 | | [cellular component assembly](http://amigo.geneontology.org/amigo/term/GO:0022607) | [2394](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&reflist=1) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&list=upload_1&organism=Homo%20sapiens) | 113.02 | 1.52 | + | 6.67E-08 | 9.42E-06 | | [cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044085) | [2633](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&reflist=1) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&list=upload_1&organism=Homo%20sapiens) | 124.30 | 1.50 | + | 5.62E-08 | 8.01E-06 | | [protein-containing complex organization](http://amigo.geneontology.org/amigo/term/GO:0043933) | [1423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&reflist=1) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&list=upload_1&organism=Homo%20sapiens) | 67.18 | 1.47 | + | 2.44E-04 | 1.24E-02 | | [telomere maintenance](http://amigo.geneontology.org/amigo/term/GO:0000723) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000723&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000723&list=upload_1&organism=Homo%20sapiens) | 4.44 | 2.93 | + | 1.05E-03 | 3.98E-02 | | [response to hydrogen peroxide](http://amigo.geneontology.org/amigo/term/GO:0042542) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042542&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042542&list=upload_1&organism=Homo%20sapiens) | 4.86 | 2.88 | + | 7.98E-04 | 3.16E-02 | | [response to reactive oxygen species](http://amigo.geneontology.org/amigo/term/GO:0000302) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&list=upload_1&organism=Homo%20sapiens) | 7.88 | 2.54 | + | 4.85E-04 | 2.14E-02 | | [positive regulation of protein secretion](http://amigo.geneontology.org/amigo/term/GO:0050714) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050714&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050714&list=upload_1&organism=Homo%20sapiens) | 6.23 | 2.73 | + | 4.07E-04 | 1.86E-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) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&list=upload_1&organism=Homo%20sapiens) | 23.70 | 1.98 | + | 2.51E-05 | 1.74E-03 | | [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) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&list=upload_1&organism=Homo%20sapiens) | 24.88 | 2.01 | + | 9.73E-06 | 7.44E-04 | | [regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:0032880) | [850](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&list=upload_1&organism=Homo%20sapiens) | 40.13 | 2.02 | + | 1.53E-08 | 2.79E-06 | | [positive regulation of secretion by cell](http://amigo.geneontology.org/amigo/term/GO:1903532) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903532&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903532&list=upload_1&organism=Homo%20sapiens) | 13.41 | 2.09 | + | 5.07E-04 | 2.20E-02 | | [positive regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051047) | [311](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&list=upload_1&organism=Homo%20sapiens) | 14.68 | 1.98 | + | 1.31E-03 | 4.85E-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) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&list=upload_1&organism=Homo%20sapiens) | 43.39 | 1.68 | + | 4.04E-05 | 2.65E-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) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051222&list=upload_1&organism=Homo%20sapiens) | 14.35 | 2.09 | + | 4.26E-04 | 1.92E-02 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904951&list=upload_1&organism=Homo%20sapiens) | 15.11 | 2.05 | + | 3.74E-04 | 1.73E-02 | | [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) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&list=upload_1&organism=Homo%20sapiens) | 21.81 | 2.02 | + | 3.08E-05 | 2.11E-03 | | [regulation of mRNA processing](http://amigo.geneontology.org/amigo/term/GO:0050684) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050684&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050684&list=upload_1&organism=Homo%20sapiens) | 6.61 | 2.72 | + | 2.83E-04 | 1.39E-02 | | [regulation of mRNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:1903311) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903311&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903311&list=upload_1&organism=Homo%20sapiens) | 14.21 | 2.11 | + | 2.67E-04 | 1.33E-02 | | [cellular response to hypoxia](http://amigo.geneontology.org/amigo/term/GO:0071456) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071456&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071456&list=upload_1&organism=Homo%20sapiens) | 6.04 | 2.65 | + | 7.95E-04 | 3.17E-02 | | [response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009628) | [1121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&list=upload_1&organism=Homo%20sapiens) | 52.92 | 1.53 | + | 3.24E-04 | 1.54E-02 | | [cellular response to decreased oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0036294) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036294&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036294&list=upload_1&organism=Homo%20sapiens) | 6.42 | 2.65 | + | 5.53E-04 | 2.37E-02 | | [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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&list=upload_1&organism=Homo%20sapiens) | 9.44 | 2.65 | + | 3.13E-05 | 2.13E-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) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&list=upload_1&organism=Homo%20sapiens) | 10.86 | 2.58 | + | 2.30E-05 | 1.62E-03 | | [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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903052&list=upload_1&organism=Homo%20sapiens) | 6.47 | 2.63 | + | 5.97E-04 | 2.55E-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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&list=upload_1&organism=Homo%20sapiens) | 17.61 | 1.99 | + | 2.61E-04 | 1.30E-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) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902904&list=upload_1&organism=Homo%20sapiens) | 7.65 | 2.62 | + | 2.18E-04 | 1.12E-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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902903&list=upload_1&organism=Homo%20sapiens) | 18.08 | 2.27 | + | 4.54E-06 | 3.75E-04 | | [response to ethanol](http://amigo.geneontology.org/amigo/term/GO:0045471) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045471&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045471&list=upload_1&organism=Homo%20sapiens) | 6.14 | 2.61 | + | 9.24E-04 | 3.58E-02 | | [response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097305) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&list=upload_1&organism=Homo%20sapiens) | 11.99 | 2.17 | + | 6.50E-04 | 2.72E-02 | | [mRNA splicing, via spliceosome](http://amigo.geneontology.org/amigo/term/GO:0000398) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000398&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000398&list=upload_1&organism=Homo%20sapiens) | 11.47 | 2.53 | + | 1.99E-05 | 1.43E-03 | | [RNA splicing, via transesterification reactions with bulged adenosine as nucleophile](http://amigo.geneontology.org/amigo/term/GO:0000377) | [243](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000377&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000377&list=upload_1&organism=Homo%20sapiens) | 11.47 | 2.53 | + | 1.99E-05 | 1.42E-03 | | [RNA splicing, via transesterification reactions](http://amigo.geneontology.org/amigo/term/GO:0000375) | [247](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000375&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000375&list=upload_1&organism=Homo%20sapiens) | 11.66 | 2.66 | + | 3.42E-06 | 3.03E-04 | | [RNA splicing](http://amigo.geneontology.org/amigo/term/GO:0008380) | [368](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008380&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008380&list=upload_1&organism=Homo%20sapiens) | 17.37 | 2.24 | + | 9.58E-06 | 7.40E-04 | | [establishment of vesicle localization](http://amigo.geneontology.org/amigo/term/GO:0051650) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051650&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051650&list=upload_1&organism=Homo%20sapiens) | 7.93 | 2.52 | + | 5.00E-04 | 2.20E-02 | | [vesicle localization](http://amigo.geneontology.org/amigo/term/GO:0051648) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051648&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051648&list=upload_1&organism=Homo%20sapiens) | 8.45 | 2.37 | + | 7.96E-04 | 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) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051640&list=upload_1&organism=Homo%20sapiens) | 24.22 | 2.19 | + | 5.16E-07 | 5.70E-05 | | [establishment of organelle localization](http://amigo.geneontology.org/amigo/term/GO:0051656) | [379](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051656&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051656&list=upload_1&organism=Homo%20sapiens) | 17.89 | 2.57 | + | 4.16E-08 | 6.28E-06 | | [regulation of cell size](http://amigo.geneontology.org/amigo/term/GO:0008361) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&list=upload_1&organism=Homo%20sapiens) | 8.97 | 2.45 | + | 3.00E-04 | 1.46E-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) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032535&list=upload_1&organism=Homo%20sapiens) | 17.56 | 2.22 | + | 1.15E-05 | 8.56E-04 | | [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) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090066&list=upload_1&organism=Homo%20sapiens) | 24.12 | 1.91 | + | 7.36E-05 | 4.49E-03 | | [regulation of biological quality](http://amigo.geneontology.org/amigo/term/GO:0065008) | [3677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&reflist=1) | [247](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&list=upload_1&organism=Homo%20sapiens) | 173.59 | 1.42 | + | 1.05E-08 | 2.07E-06 | | [DNA-templated transcription elongation](http://amigo.geneontology.org/amigo/term/GO:0006354) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006354&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006354&list=upload_1&organism=Homo%20sapiens) | 8.73 | 2.40 | + | 5.01E-04 | 2.19E-02 | | [DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0006351) | [613](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006351&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006351&list=upload_1&organism=Homo%20sapiens) | 28.94 | 2.14 | + | 1.27E-07 | 1.69E-05 | | [nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0097659) | [614](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097659&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097659&list=upload_1&organism=Homo%20sapiens) | 28.99 | 2.14 | + | 1.30E-07 | 1.72E-05 | | [RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0032774) | [624](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032774&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032774&list=upload_1&organism=Homo%20sapiens) | 29.46 | 2.10 | + | 1.83E-07 | 2.33E-05 | | [macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009059) | [1487](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&reflist=1) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009059&list=upload_1&organism=Homo%20sapiens) | 70.20 | 1.47 | + | 1.99E-04 | 1.05E-02 | | [organic substance biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1901576) | [2534](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901576&reflist=1) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901576&list=upload_1&organism=Homo%20sapiens) | 119.63 | 1.35 | + | 1.57E-04 | 8.60E-03 | | [biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009058) | [2603](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&reflist=1) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009058&list=upload_1&organism=Homo%20sapiens) | 122.89 | 1.37 | + | 4.54E-05 | 2.96E-03 | | [nucleobase-containing compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0034654) | [1007](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034654&reflist=1) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034654&list=upload_1&organism=Homo%20sapiens) | 47.54 | 1.81 | + | 4.28E-07 | 4.86E-05 | | [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) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044271&list=upload_1&organism=Homo%20sapiens) | 74.97 | 1.56 | + | 4.51E-06 | 3.75E-04 | | [cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0044249) | [2464](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&reflist=1) | [155](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044249&list=upload_1&organism=Homo%20sapiens) | 116.32 | 1.33 | + | 3.50E-04 | 1.63E-02 | | [heterocycle biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0018130) | [1079](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018130&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018130&list=upload_1&organism=Homo%20sapiens) | 50.94 | 1.77 | + | 6.55E-07 | 6.99E-05 | | [organic cyclic compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1901362) | [1216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901362&reflist=1) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901362&list=upload_1&organism=Homo%20sapiens) | 57.41 | 1.72 | + | 4.52E-07 | 5.10E-05 | | [aromatic compound biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0019438) | [1089](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019438&reflist=1) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019438&list=upload_1&organism=Homo%20sapiens) | 51.41 | 1.77 | + | 5.06E-07 | 5.63E-05 | | [double-strand break repair](http://amigo.geneontology.org/amigo/term/GO:0006302) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006302&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006302&list=upload_1&organism=Homo%20sapiens) | 9.58 | 2.40 | + | 2.68E-04 | 1.33E-02 | | [protein folding](http://amigo.geneontology.org/amigo/term/GO:0006457) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006457&list=upload_1&organism=Homo%20sapiens) | 10.43 | 2.40 | + | 1.45E-04 | 8.08E-03 | | [cell division](http://amigo.geneontology.org/amigo/term/GO:0051301) | [514](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051301&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051301&list=upload_1&organism=Homo%20sapiens) | 24.27 | 2.39 | + | 8.41E-09 | 1.71E-06 | | [protein stabilization](http://amigo.geneontology.org/amigo/term/GO:0050821) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&list=upload_1&organism=Homo%20sapiens) | 10.29 | 2.33 | + | 4.29E-04 | 1.93E-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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&list=upload_1&organism=Homo%20sapiens) | 15.72 | 2.23 | + | 3.43E-05 | 2.30E-03 | | [mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044772) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&list=upload_1&organism=Homo%20sapiens) | 8.17 | 2.33 | + | 1.26E-03 | 4.70E-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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&list=upload_1&organism=Homo%20sapiens) | 9.49 | 2.32 | + | 5.31E-04 | 2.28E-02 | | [regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051098) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&list=upload_1&organism=Homo%20sapiens) | 17.66 | 2.15 | + | 3.25E-05 | 2.20E-03 | | [regulation of cell-substrate adhesion](http://amigo.geneontology.org/amigo/term/GO:0010810) | [219](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010810&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010810&list=upload_1&organism=Homo%20sapiens) | 10.34 | 2.22 | + | 8.02E-04 | 3.17E-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) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&list=upload_1&organism=Homo%20sapiens) | 37.25 | 1.72 | + | 6.67E-05 | 4.13E-03 | | [regulation of synapse organization](http://amigo.geneontology.org/amigo/term/GO:0050807) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050807&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050807&list=upload_1&organism=Homo%20sapiens) | 9.91 | 2.22 | + | 1.10E-03 | 4.15E-02 | | [regulation of synapse structure or activity](http://amigo.geneontology.org/amigo/term/GO:0050803) | [216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050803&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050803&list=upload_1&organism=Homo%20sapiens) | 10.20 | 2.26 | + | 7.23E-04 | 2.95E-02 | | [transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0006366) | [356](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006366&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006366&list=upload_1&organism=Homo%20sapiens) | 16.81 | 2.20 | + | 2.31E-05 | 1.62E-03 | | [positive regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0045927) | [260](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045927&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045927&list=upload_1&organism=Homo%20sapiens) | 12.27 | 2.20 | + | 4.41E-04 | 1.97E-02 | | [regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0040008) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&list=upload_1&organism=Homo%20sapiens) | 29.60 | 1.82 | + | 6.73E-05 | 4.14E-03 | | [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) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090150&list=upload_1&organism=Homo%20sapiens) | 10.10 | 2.18 | + | 1.28E-03 | 4.74E-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) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&list=upload_1&organism=Homo%20sapiens) | 13.41 | 2.16 | + | 2.69E-04 | 1.32E-02 | | [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) | 36.21 | 1.96 | + | 3.75E-07 | 4.33E-05 | | [response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0009719) | [1371](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&reflist=1) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&list=upload_1&organism=Homo%20sapiens) | 64.72 | 1.67 | + | 6.62E-07 | 7.01E-05 | | [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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&list=upload_1&organism=Homo%20sapiens) | 16.29 | 2.15 | + | 7.89E-05 | 4.79E-03 | | [negative regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002683) | [434](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002683&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002683&list=upload_1&organism=Homo%20sapiens) | 20.49 | 2.15 | + | 9.21E-06 | 7.15E-04 | | [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) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&list=upload_1&organism=Homo%20sapiens) | 71.76 | 1.60 | + | 1.58E-06 | 1.49E-04 | | [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) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&list=upload_1&organism=Homo%20sapiens) | 16.38 | 2.14 | + | 8.31E-05 | 4.99E-03 | | [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) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&list=upload_1&organism=Homo%20sapiens) | 27.15 | 2.06 | + | 1.33E-06 | 1.31E-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) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&list=upload_1&organism=Homo%20sapiens) | 27.66 | 2.06 | + | 1.53E-06 | 1.46E-04 | | [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) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&list=upload_1&organism=Homo%20sapiens) | 28.23 | 2.02 | + | 2.06E-06 | 1.90E-04 | | [cellular macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044265) | [785](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&list=upload_1&organism=Homo%20sapiens) | 37.06 | 2.21 | + | 2.75E-10 | 8.63E-08 | | [macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009057) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&list=upload_1&organism=Homo%20sapiens) | 46.69 | 2.14 | + | 1.07E-11 | 4.53E-09 | | [organic substance catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901575) | [1679](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&reflist=1) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&list=upload_1&organism=Homo%20sapiens) | 79.27 | 1.74 | + | 8.42E-10 | 2.24E-07 | | [catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009056) | [1974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&reflist=1) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&list=upload_1&organism=Homo%20sapiens) | 93.19 | 1.67 | + | 7.69E-10 | 2.15E-07 | | [cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044248) | [1625](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&reflist=1) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&list=upload_1&organism=Homo%20sapiens) | 76.72 | 1.73 | + | 2.21E-09 | 5.32E-07 | | [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) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&list=upload_1&organism=Homo%20sapiens) | 30.54 | 2.06 | + | 2.90E-07 | 3.42E-05 | | [protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0030163) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&list=upload_1&organism=Homo%20sapiens) | 35.69 | 2.05 | + | 4.71E-08 | 7.03E-06 | | [protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019538) | [3920](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&reflist=1) | [249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&list=upload_1&organism=Homo%20sapiens) | 185.06 | 1.35 | + | 8.88E-07 | 9.22E-05 | | [organonitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901564) | [5013](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&reflist=1) | [305](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&list=upload_1&organism=Homo%20sapiens) | 236.66 | 1.29 | + | 1.26E-06 | 1.26E-04 | | [organonitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901565) | [1112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&list=upload_1&organism=Homo%20sapiens) | 52.50 | 1.81 | + | 9.80E-08 | 1.35E-05 | | [proteolysis](http://amigo.geneontology.org/amigo/term/GO:0006508) | [1266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&reflist=1) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&list=upload_1&organism=Homo%20sapiens) | 59.77 | 1.64 | + | 4.04E-06 | 3.45E-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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&list=upload_1&organism=Homo%20sapiens) | 17.85 | 2.02 | + | 1.71E-04 | 9.13E-03 | | [actin filament organization](http://amigo.geneontology.org/amigo/term/GO:0007015) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007015&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007015&list=upload_1&organism=Homo%20sapiens) | 12.98 | 2.08 | + | 6.85E-04 | 2.84E-02 | | [supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:0097435) | [580](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&list=upload_1&organism=Homo%20sapiens) | 27.38 | 2.34 | + | 3.16E-09 | 7.28E-07 | | [learning or memory](http://amigo.geneontology.org/amigo/term/GO:0007611) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&list=upload_1&organism=Homo%20sapiens) | 12.98 | 2.08 | + | 6.85E-04 | 2.83E-02 | | [behavior](http://amigo.geneontology.org/amigo/term/GO:0007610) | [606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&list=upload_1&organism=Homo%20sapiens) | 28.61 | 1.92 | + | 1.41E-05 | 1.04E-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) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010638&list=upload_1&organism=Homo%20sapiens) | 23.98 | 2.04 | + | 9.94E-06 | 7.50E-04 | | [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) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&list=upload_1&organism=Homo%20sapiens) | 49.76 | 1.93 | + | 5.04E-09 | 1.07E-06 | | [regulation of actin cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0032956) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032956&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032956&list=upload_1&organism=Homo%20sapiens) | 17.18 | 2.04 | + | 2.02E-04 | 1.06E-02 | | [regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051493) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&list=upload_1&organism=Homo%20sapiens) | 25.49 | 1.84 | + | 1.60E-04 | 8.70E-03 | | [regulation of actin filament-based process](http://amigo.geneontology.org/amigo/term/GO:0032970) | [405](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032970&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032970&list=upload_1&organism=Homo%20sapiens) | 19.12 | 2.09 | + | 3.88E-05 | 2.57E-03 | | [establishment of protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0072594) | [334](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072594&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072594&list=upload_1&organism=Homo%20sapiens) | 15.77 | 2.03 | + | 3.29E-04 | 1.56E-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) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&list=upload_1&organism=Homo%20sapiens) | 32.76 | 1.89 | + | 6.26E-06 | 5.06E-04 | | [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) | 17.56 | 1.99 | + | 2.53E-04 | 1.27E-02 | | [regulation of defense response](http://amigo.geneontology.org/amigo/term/GO:0031347) | [642](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031347&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031347&list=upload_1&organism=Homo%20sapiens) | 30.31 | 1.72 | + | 3.66E-04 | 1.70E-02 | | [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) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&list=upload_1&organism=Homo%20sapiens) | 64.82 | 1.65 | + | 9.89E-07 | 1.01E-04 | | [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) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&list=upload_1&organism=Homo%20sapiens) | 45.94 | 1.68 | + | 2.45E-05 | 1.71E-03 | | [response to peptide hormone](http://amigo.geneontology.org/amigo/term/GO:0043434) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043434&list=upload_1&organism=Homo%20sapiens) | 17.14 | 1.98 | + | 3.39E-04 | 1.59E-02 | | [response to peptide](http://amigo.geneontology.org/amigo/term/GO:1901652) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901652&list=upload_1&organism=Homo%20sapiens) | 21.01 | 1.81 | + | 8.19E-04 | 3.21E-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) | 15.30 | 1.96 | + | 1.04E-03 | 3.95E-02 | | [regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050767) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&list=upload_1&organism=Homo%20sapiens) | 17.61 | 1.93 | + | 6.14E-04 | 2.62E-02 | | [regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051960) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&list=upload_1&organism=Homo%20sapiens) | 21.34 | 1.97 | + | 9.72E-05 | 5.71E-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) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&list=upload_1&organism=Homo%20sapiens) | 65.29 | 1.67 | + | 5.27E-07 | 5.78E-05 | | [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) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&list=upload_1&organism=Homo%20sapiens) | 129.83 | 1.53 | + | 3.56E-09 | 8.09E-07 | | [organic cyclic compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901361) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901361&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901361&list=upload_1&organism=Homo%20sapiens) | 17.66 | 1.93 | + | 6.27E-04 | 2.65E-02 | | [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) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&list=upload_1&organism=Homo%20sapiens) | 42.39 | 1.91 | + | 1.37E-07 | 1.79E-05 | | [regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0042981) | [1468](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&reflist=1) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&list=upload_1&organism=Homo%20sapiens) | 69.30 | 1.70 | + | 5.28E-08 | 7.59E-06 | | [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) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&list=upload_1&organism=Homo%20sapiens) | 70.72 | 1.73 | + | 1.62E-08 | 2.85E-06 | | [regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010941) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&reflist=1) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&list=upload_1&organism=Homo%20sapiens) | 78.08 | 1.66 | + | 3.48E-08 | 5.35E-06 | | [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) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&list=upload_1&organism=Homo%20sapiens) | 43.34 | 1.94 | + | 4.99E-08 | 7.24E-06 | | [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) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&list=upload_1&organism=Homo%20sapiens) | 48.25 | 1.82 | + | 2.29E-07 | 2.83E-05 | | [cell migration](http://amigo.geneontology.org/amigo/term/GO:0016477) | [903](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&list=upload_1&organism=Homo%20sapiens) | 42.63 | 1.90 | + | 1.52E-07 | 1.96E-05 | | [cell motility](http://amigo.geneontology.org/amigo/term/GO:0048870) | [1061](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&list=upload_1&organism=Homo%20sapiens) | 50.09 | 1.86 | + | 4.86E-08 | 7.13E-06 | | [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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&list=upload_1&organism=Homo%20sapiens) | 54.34 | 1.90 | + | 2.66E-09 | 6.22E-07 | | [regulation of cellular macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000112) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&list=upload_1&organism=Homo%20sapiens) | 23.27 | 1.89 | + | 1.30E-04 | 7.32E-03 | | [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) | 22.52 | 1.87 | + | 2.42E-04 | 1.24E-02 | | [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) | 23.94 | 1.88 | + | 1.51E-04 | 8.35E-03 | | [regulation of cellular amide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0034248) | [469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&list=upload_1&organism=Homo%20sapiens) | 22.14 | 1.85 | + | 3.29E-04 | 1.55E-02 | | [response to wounding](http://amigo.geneontology.org/amigo/term/GO:0009611) | [447](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&list=upload_1&organism=Homo%20sapiens) | 21.10 | 1.85 | + | 5.28E-04 | 2.28E-02 | | [regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0001558) | [429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&list=upload_1&organism=Homo%20sapiens) | 20.25 | 1.83 | + | 9.31E-04 | 3.59E-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) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045944&list=upload_1&organism=Homo%20sapiens) | 59.44 | 1.82 | + | 1.08E-08 | 2.09E-06 | | [regulation of transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0006357) | [2606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006357&reflist=1) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006357&list=upload_1&organism=Homo%20sapiens) | 123.03 | 1.35 | + | 1.04E-04 | 6.00E-03 | | [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) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&list=upload_1&organism=Homo%20sapiens) | 21.01 | 1.81 | + | 8.19E-04 | 3.20E-02 | | [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) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&list=upload_1&organism=Homo%20sapiens) | 30.21 | 1.95 | + | 4.15E-06 | 3.48E-04 | | [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) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&list=upload_1&organism=Homo%20sapiens) | 30.97 | 1.91 | + | 8.39E-06 | 6.55E-04 | | [cellular component morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032989) | [604](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&list=upload_1&organism=Homo%20sapiens) | 28.51 | 1.79 | + | 1.65E-04 | 8.85E-03 | | [anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009653) | [2237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&reflist=1) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&list=upload_1&organism=Homo%20sapiens) | 105.61 | 1.52 | + | 2.75E-07 | 3.32E-05 | | [cellular developmental process](http://amigo.geneontology.org/amigo/term/GO:0048869) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&reflist=1) | [233](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&list=upload_1&organism=Homo%20sapiens) | 167.22 | 1.39 | + | 1.99E-07 | 2.49E-05 | | [post-transcriptional regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010608) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010608&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010608&list=upload_1&organism=Homo%20sapiens) | 23.51 | 1.79 | + | 6.81E-04 | 2.83E-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) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032446&list=upload_1&organism=Homo%20sapiens) | 35.55 | 1.74 | + | 6.46E-05 | 4.07E-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) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070647&list=upload_1&organism=Homo%20sapiens) | 42.39 | 1.56 | + | 7.95E-04 | 3.17E-02 | | [protein modification process](http://amigo.geneontology.org/amigo/term/GO:0036211) | [2658](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&reflist=1) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&list=upload_1&organism=Homo%20sapiens) | 125.48 | 1.35 | + | 6.50E-05 | 4.08E-03 | | [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) | 136.11 | 1.32 | + | 1.36E-04 | 7.63E-03 | | [regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043408) | [672](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&list=upload_1&organism=Homo%20sapiens) | 31.72 | 1.73 | + | 1.74E-04 | 9.27E-03 | | [endomembrane system organization](http://amigo.geneontology.org/amigo/term/GO:0010256) | [554](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010256&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010256&list=upload_1&organism=Homo%20sapiens) | 26.15 | 1.72 | + | 8.85E-04 | 3.44E-02 | | [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) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&list=upload_1&organism=Homo%20sapiens) | 42.58 | 1.71 | + | 2.42E-05 | 1.69E-03 | | [cell morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0000902) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&list=upload_1&organism=Homo%20sapiens) | 33.66 | 1.66 | + | 5.04E-04 | 2.20E-02 | | [negative regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045596) | [676](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&list=upload_1&organism=Homo%20sapiens) | 31.91 | 1.66 | + | 7.09E-04 | 2.89E-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) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&list=upload_1&organism=Homo%20sapiens) | 43.57 | 1.58 | + | 3.89E-04 | 1.79E-02 | | [negative regulation of transcription by RNA polymerase II](http://amigo.geneontology.org/amigo/term/GO:0000122) | [974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000122&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000122&list=upload_1&organism=Homo%20sapiens) | 45.98 | 1.63 | + | 8.94E-05 | 5.35E-03 | | [negative regulation of DNA-templated transcription](http://amigo.geneontology.org/amigo/term/GO:0045892) | [1323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045892&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045892&list=upload_1&organism=Homo%20sapiens) | 62.46 | 1.54 | + | 6.57E-05 | 4.11E-03 | | [negative regulation of nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:1903507) | [1325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903507&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903507&list=upload_1&organism=Homo%20sapiens) | 62.55 | 1.53 | + | 6.69E-05 | 4.13E-03 | | [negative regulation of RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:1902679) | [1327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&list=upload_1&organism=Homo%20sapiens) | 62.65 | 1.53 | + | 6.82E-05 | 4.18E-03 | | [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) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051253&list=upload_1&organism=Homo%20sapiens) | 67.75 | 1.59 | + | 4.11E-06 | 3.47E-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) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045934&list=upload_1&organism=Homo%20sapiens) | 73.74 | 1.57 | + | 3.80E-06 | 3.28E-04 | | [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) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031327&list=upload_1&organism=Homo%20sapiens) | 75.25 | 1.49 | + | 5.56E-05 | 3.55E-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) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009890&list=upload_1&organism=Homo%20sapiens) | 76.67 | 1.49 | + | 4.97E-05 | 3.19E-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) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010558&list=upload_1&organism=Homo%20sapiens) | 72.37 | 1.51 | + | 4.13E-05 | 2.70E-03 | | [regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030334) | [929](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&list=upload_1&organism=Homo%20sapiens) | 43.86 | 1.62 | + | 1.63E-04 | 8.77E-03 | | [regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000145) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&list=upload_1&organism=Homo%20sapiens) | 46.69 | 1.56 | + | 3.39E-04 | 1.59E-02 | | [regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040012) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&list=upload_1&organism=Homo%20sapiens) | 48.81 | 1.56 | + | 2.60E-04 | 1.30E-02 | | [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) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&list=upload_1&organism=Homo%20sapiens) | 47.16 | 1.61 | + | 1.08E-04 | 6.23E-03 | | [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) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&list=upload_1&organism=Homo%20sapiens) | 72.14 | 1.57 | + | 5.57E-06 | 4.53E-04 | | [positive regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023056) | [1701](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&reflist=1) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&list=upload_1&organism=Homo%20sapiens) | 80.30 | 1.56 | + | 2.14E-06 | 1.93E-04 | | [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) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&list=upload_1&organism=Homo%20sapiens) | 80.07 | 1.56 | + | 2.05E-06 | 1.90E-04 | | [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) | [153](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&list=upload_1&organism=Homo%20sapiens) | 104.95 | 1.46 | + | 4.71E-06 | 3.87E-04 | | [positive regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051240) | [1515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&reflist=1) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&list=upload_1&organism=Homo%20sapiens) | 71.52 | 1.61 | + | 1.50E-06 | 1.44E-04 | | [apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006915) | [1033](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&list=upload_1&organism=Homo%20sapiens) | 48.77 | 1.60 | + | 1.03E-04 | 6.00E-03 | | [programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0012501) | [1074](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&list=upload_1&organism=Homo%20sapiens) | 50.70 | 1.54 | + | 3.28E-04 | 1.55E-02 | | [cell death](http://amigo.geneontology.org/amigo/term/GO:0008219) | [1108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&reflist=1) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&list=upload_1&organism=Homo%20sapiens) | 52.31 | 1.53 | + | 3.08E-04 | 1.48E-02 | | [neuron development](http://amigo.geneontology.org/amigo/term/GO:0048666) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&list=upload_1&organism=Homo%20sapiens) | 39.80 | 1.58 | + | 7.38E-04 | 2.98E-02 | | [cell development](http://amigo.geneontology.org/amigo/term/GO:0048468) | [1725](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&reflist=1) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&list=upload_1&organism=Homo%20sapiens) | 81.44 | 1.40 | + | 5.05E-04 | 2.20E-02 | | [cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030154) | [3519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&reflist=1) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&list=upload_1&organism=Homo%20sapiens) | 166.13 | 1.39 | + | 2.37E-07 | 2.91E-05 | | [neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0030182) | [1065](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&list=upload_1&organism=Homo%20sapiens) | 50.28 | 1.53 | + | 4.10E-04 | 1.87E-02 | | [generation of neurons](http://amigo.geneontology.org/amigo/term/GO:0048699) | [1134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&list=upload_1&organism=Homo%20sapiens) | 53.54 | 1.59 | + | 6.28E-05 | 3.97E-03 | | [neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0022008) | [1290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&list=upload_1&organism=Homo%20sapiens) | 60.90 | 1.53 | + | 9.72E-05 | 5.73E-03 | | [nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007399) | [2191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&reflist=1) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&list=upload_1&organism=Homo%20sapiens) | 103.44 | 1.49 | + | 1.44E-06 | 1.40E-04 | | [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) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&list=upload_1&organism=Homo%20sapiens) | 36.87 | 1.57 | + | 1.20E-03 | 4.51E-02 | | [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) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&list=upload_1&organism=Homo%20sapiens) | 54.29 | 1.53 | + | 2.91E-04 | 1.42E-02 | | [membrane organization](http://amigo.geneontology.org/amigo/term/GO:0061024) | [851](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&list=upload_1&organism=Homo%20sapiens) | 40.18 | 1.57 | + | 7.95E-04 | 3.18E-02 | | [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) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&list=upload_1&organism=Homo%20sapiens) | 52.26 | 1.53 | + | 3.04E-04 | 1.47E-02 | | [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) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&list=upload_1&organism=Homo%20sapiens) | 52.64 | 1.48 | + | 9.24E-04 | 3.57E-02 | | [cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0030030) | [1161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&list=upload_1&organism=Homo%20sapiens) | 54.81 | 1.48 | + | 8.83E-04 | 3.45E-02 | | [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) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&list=upload_1&organism=Homo%20sapiens) | 75.06 | 1.44 | + | 2.47E-04 | 1.25E-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) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&list=upload_1&organism=Homo%20sapiens) | 79.03 | 1.39 | + | 8.18E-04 | 3.22E-02 | | [tissue development](http://amigo.geneontology.org/amigo/term/GO:0009888) | [1726](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&list=upload_1&organism=Homo%20sapiens) | 81.48 | 1.39 | + | 6.43E-04 | 2.70E-02 | | [animal organ development](http://amigo.geneontology.org/amigo/term/GO:0048513) | [3254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&reflist=1) | [207](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&list=upload_1&organism=Homo%20sapiens) | 153.62 | 1.35 | + | 1.12E-05 | 8.36E-04 | | Unclassified | [2725](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&list=upload_1&organism=Homo%20sapiens) | 128.65 | .28 | - | 3.02E-23 | 2.36E-19 | |

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