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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 | [404](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) out of 712 |
| Unmapped IDs: | [0](http://pantherdb.org/tools/unmappedBinom.jsp?refList=1) | [426](http://pantherdb.org/tools/unmappedBinom.jsp?listName=upload_1) |
| Multiple mapping information: | 0 | [352](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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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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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) | | [response to actinomycin D](http://amigo.geneontology.org/amigo/term/GO:0072716) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072716&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072716&list=upload_1&organism=Homo%20sapiens) | .17 | 17.35 | + | 1.84E-03 | 4.46E-02 | | [response to chemical](http://amigo.geneontology.org/amigo/term/GO:0042221) | [4060](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&reflist=1) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&list=upload_1&organism=Homo%20sapiens) | 140.40 | 1.58 | + | 1.28E-12 | 4.09E-10 | | [response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0050896) | [8209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&reflist=1) | [389](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&list=upload_1&organism=Homo%20sapiens) | 283.88 | 1.37 | + | 7.07E-15 | 4.27E-12 | | [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) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&list=upload_1&organism=Homo%20sapiens) | 53.64 | 1.68 | + | 2.89E-06 | 1.99E-04 | | [response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0010243) | [968](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&list=upload_1&organism=Homo%20sapiens) | 33.47 | 1.67 | + | 3.27E-04 | 1.14E-02 | | [response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0010033) | [2704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&reflist=1) | [165](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&list=upload_1&organism=Homo%20sapiens) | 93.51 | 1.76 | + | 7.99E-13 | 2.98E-10 | | [response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901698) | [1062](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&list=upload_1&organism=Homo%20sapiens) | 36.73 | 1.72 | + | 5.61E-05 | 2.59E-03 | | [tetrahydrobiopterin biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0006729) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006729&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006729&list=upload_1&organism=Homo%20sapiens) | .24 | 16.52 | + | 3.39E-04 | 1.16E-02 | | [organic substance metabolic process](http://amigo.geneontology.org/amigo/term/GO:0071704) | [7697](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&reflist=1) | [349](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&list=upload_1&organism=Homo%20sapiens) | 266.17 | 1.31 | + | 5.74E-10 | 1.11E-07 | | [metabolic process](http://amigo.geneontology.org/amigo/term/GO:0008152) | [8131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&reflist=1) | [371](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&list=upload_1&organism=Homo%20sapiens) | 281.18 | 1.32 | + | 2.95E-11 | 7.46E-09 | | [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) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044271&list=upload_1&organism=Homo%20sapiens) | 54.92 | 1.57 | + | 6.61E-05 | 2.95E-03 | | [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) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034641&list=upload_1&organism=Homo%20sapiens) | 123.56 | 1.41 | + | 2.96E-06 | 2.03E-04 | | [cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044237) | [6606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&reflist=1) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&list=upload_1&organism=Homo%20sapiens) | 228.45 | 1.39 | + | 1.11E-11 | 3.00E-09 | | [cellular process](http://amigo.geneontology.org/amigo/term/GO:0009987) | [15044](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&reflist=1) | [624](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&list=upload_1&organism=Homo%20sapiens) | 520.25 | 1.20 | + | 1.30E-20 | 5.11E-17 | | [nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006807) | [6710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&reflist=1) | [319](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&list=upload_1&organism=Homo%20sapiens) | 232.04 | 1.37 | + | 3.09E-11 | 7.70E-09 | | [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) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006725&list=upload_1&organism=Homo%20sapiens) | 105.47 | 1.39 | + | 3.79E-05 | 1.83E-03 | | [organonitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901564) | [5013](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&reflist=1) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&list=upload_1&organism=Homo%20sapiens) | 173.36 | 1.43 | + | 8.71E-10 | 1.63E-07 | | [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) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901360&list=upload_1&organism=Homo%20sapiens) | 113.84 | 1.39 | + | 2.11E-05 | 1.12E-03 | | [heterocycle metabolic process](http://amigo.geneontology.org/amigo/term/GO:0046483) | [2999](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&reflist=1) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046483&list=upload_1&organism=Homo%20sapiens) | 103.71 | 1.39 | + | 6.59E-05 | 2.95E-03 | | [tetrahydrobiopterin metabolic process](http://amigo.geneontology.org/amigo/term/GO:0046146) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046146&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046146&list=upload_1&organism=Homo%20sapiens) | .28 | 14.46 | + | 4.94E-04 | 1.56E-02 | | [positive regulation of cardiac muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010666) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010666&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010666&list=upload_1&organism=Homo%20sapiens) | .48 | 12.39 | + | 3.54E-05 | 1.75E-03 | | [regulation of cardiac muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010665) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010665&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010665&list=upload_1&organism=Homo%20sapiens) | 1.28 | 6.25 | + | 1.08E-04 | 4.49E-03 | | [regulation of striated muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010662) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010662&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010662&list=upload_1&organism=Homo%20sapiens) | 1.38 | 6.51 | + | 3.07E-05 | 1.55E-03 | | [regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010660) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&list=upload_1&organism=Homo%20sapiens) | 2.35 | 5.53 | + | 2.70E-06 | 1.88E-04 | | [regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0042981) | [1468](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&list=upload_1&organism=Homo%20sapiens) | 50.77 | 2.21 | + | 2.04E-14 | 1.03E-11 | | [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) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&list=upload_1&organism=Homo%20sapiens) | 51.80 | 2.20 | + | 1.75E-14 | 9.12E-12 | | [regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010941) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&reflist=1) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&list=upload_1&organism=Homo%20sapiens) | 57.20 | 2.13 | + | 1.10E-14 | 5.97E-12 | | [regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0050794) | [11187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&reflist=1) | [495](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&list=upload_1&organism=Homo%20sapiens) | 386.86 | 1.28 | + | 5.44E-16 | 5.33E-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) | [515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&list=upload_1&organism=Homo%20sapiens) | 408.27 | 1.26 | + | 4.49E-16 | 4.70E-13 | | [biological regulation](http://amigo.geneontology.org/amigo/term/GO:0065007) | [12544](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&reflist=1) | [531](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&list=upload_1&organism=Homo%20sapiens) | 433.79 | 1.22 | + | 5.27E-14 | 2.43E-11 | | [positive regulation of striated muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010663) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010663&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010663&list=upload_1&organism=Homo%20sapiens) | .48 | 12.39 | + | 3.54E-05 | 1.74E-03 | | [positive regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010661) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&list=upload_1&organism=Homo%20sapiens) | .90 | 8.90 | + | 1.26E-05 | 7.33E-04 | | [positive regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043065) | [503](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&list=upload_1&organism=Homo%20sapiens) | 17.39 | 2.82 | + | 5.65E-10 | 1.11E-07 | | [positive regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043068) | [516](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&list=upload_1&organism=Homo%20sapiens) | 17.84 | 2.80 | + | 4.43E-10 | 9.14E-08 | | [positive regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010942) | [583](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&list=upload_1&organism=Homo%20sapiens) | 20.16 | 2.73 | + | 1.44E-10 | 3.32E-08 | | [positive regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0048522) | [5670](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&reflist=1) | [319](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&list=upload_1&organism=Homo%20sapiens) | 196.08 | 1.63 | + | 4.84E-22 | 3.79E-18 | | [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) | [344](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&list=upload_1&organism=Homo%20sapiens) | 218.00 | 1.58 | + | 4.62E-22 | 7.25E-18 | | [positive regulation by host of viral genome replication](http://amigo.geneontology.org/amigo/term/GO:0044829) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044829&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044829&list=upload_1&organism=Homo%20sapiens) | .35 | 11.57 | + | 9.48E-04 | 2.59E-02 | | [modulation by host of viral genome replication](http://amigo.geneontology.org/amigo/term/GO:0044827) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044827&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044827&list=upload_1&organism=Homo%20sapiens) | .76 | 6.57 | + | 1.80E-03 | 4.42E-02 | | [modulation by host of symbiont process](http://amigo.geneontology.org/amigo/term/GO:0051851) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051851&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051851&list=upload_1&organism=Homo%20sapiens) | 2.87 | 3.48 | + | 1.09E-03 | 2.87E-02 | | [biological process involved in interaction with symbiont](http://amigo.geneontology.org/amigo/term/GO:0051702) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051702&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051702&list=upload_1&organism=Homo%20sapiens) | 3.91 | 3.33 | + | 3.10E-04 | 1.11E-02 | | [biological process involved in symbiotic interaction](http://amigo.geneontology.org/amigo/term/GO:0044403) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&list=upload_1&organism=Homo%20sapiens) | 9.03 | 2.66 | + | 3.46E-05 | 1.71E-03 | | [biological process involved in interspecies interaction between organisms](http://amigo.geneontology.org/amigo/term/GO:0044419) | [1602](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&list=upload_1&organism=Homo%20sapiens) | 55.40 | 1.61 | + | 2.05E-05 | 1.09E-03 | | [positive regulation by host of viral process](http://amigo.geneontology.org/amigo/term/GO:0044794) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044794&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044794&list=upload_1&organism=Homo%20sapiens) | .73 | 6.89 | + | 1.51E-03 | 3.82E-02 | | [nitric oxide biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0006809) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006809&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006809&list=upload_1&organism=Homo%20sapiens) | .73 | 11.02 | + | 3.45E-06 | 2.28E-04 | | [nitric oxide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0046209) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046209&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046209&list=upload_1&organism=Homo%20sapiens) | .86 | 9.25 | + | 9.91E-06 | 5.93E-04 | | [reactive nitrogen species metabolic process](http://amigo.geneontology.org/amigo/term/GO:2001057) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001057&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001057&list=upload_1&organism=Homo%20sapiens) | .93 | 8.57 | + | 1.58E-05 | 8.81E-04 | | [calcium ion-regulated exocytosis of neurotransmitter](http://amigo.geneontology.org/amigo/term/GO:0048791) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048791&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048791&list=upload_1&organism=Homo%20sapiens) | .48 | 10.33 | + | 3.24E-04 | 1.14E-02 | | [calcium-ion regulated exocytosis](http://amigo.geneontology.org/amigo/term/GO:0017156) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017156&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017156&list=upload_1&organism=Homo%20sapiens) | 1.56 | 5.14 | + | 3.51E-04 | 1.20E-02 | | [regulated exocytosis](http://amigo.geneontology.org/amigo/term/GO:0045055) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045055&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045055&list=upload_1&organism=Homo%20sapiens) | 4.77 | 3.77 | + | 4.97E-06 | 3.12E-04 | | [exocytosis](http://amigo.geneontology.org/amigo/term/GO:0006887) | [237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006887&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006887&list=upload_1&organism=Homo%20sapiens) | 8.20 | 2.56 | + | 1.69E-04 | 6.57E-03 | | [secretion by cell](http://amigo.geneontology.org/amigo/term/GO:0032940) | [412](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032940&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032940&list=upload_1&organism=Homo%20sapiens) | 14.25 | 2.18 | + | 1.30E-04 | 5.26E-03 | | [export from cell](http://amigo.geneontology.org/amigo/term/GO:0140352) | [467](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140352&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140352&list=upload_1&organism=Homo%20sapiens) | 16.15 | 2.04 | + | 2.12E-04 | 8.06E-03 | | [transport](http://amigo.geneontology.org/amigo/term/GO:0006810) | [3840](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&reflist=1) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006810&list=upload_1&organism=Homo%20sapiens) | 132.79 | 1.40 | + | 1.67E-06 | 1.21E-04 | | [establishment of localization](http://amigo.geneontology.org/amigo/term/GO:0051234) | [3997](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&reflist=1) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&list=upload_1&organism=Homo%20sapiens) | 138.22 | 1.40 | + | 7.12E-07 | 5.58E-05 | | [localization](http://amigo.geneontology.org/amigo/term/GO:0051179) | [4566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&reflist=1) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&list=upload_1&organism=Homo%20sapiens) | 157.90 | 1.46 | + | 1.05E-09 | 1.89E-07 | | [secretion](http://amigo.geneontology.org/amigo/term/GO:0046903) | [527](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046903&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046903&list=upload_1&organism=Homo%20sapiens) | 18.22 | 1.81 | + | 1.74E-03 | 4.31E-02 | | [vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0016192) | [1382](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016192&list=upload_1&organism=Homo%20sapiens) | 47.79 | 1.59 | + | 1.09E-04 | 4.49E-03 | | [synaptic vesicle exocytosis](http://amigo.geneontology.org/amigo/term/GO:0016079) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016079&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016079&list=upload_1&organism=Homo%20sapiens) | 2.01 | 5.98 | + | 3.19E-06 | 2.16E-04 | | [vesicle-mediated transport in synapse](http://amigo.geneontology.org/amigo/term/GO:0099003) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099003&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099003&list=upload_1&organism=Homo%20sapiens) | 4.67 | 4.50 | + | 5.94E-08 | 6.56E-06 | | [synaptic vesicle cycle](http://amigo.geneontology.org/amigo/term/GO:0099504) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099504&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099504&list=upload_1&organism=Homo%20sapiens) | 4.36 | 4.82 | + | 2.06E-08 | 2.70E-06 | | [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) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051649&list=upload_1&organism=Homo%20sapiens) | 60.59 | 1.80 | + | 6.65E-09 | 1.02E-06 | | [cellular localization](http://amigo.geneontology.org/amigo/term/GO:0051641) | [2655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&reflist=1) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051641&list=upload_1&organism=Homo%20sapiens) | 91.81 | 1.70 | + | 9.07E-11 | 2.12E-08 | | [neurotransmitter secretion](http://amigo.geneontology.org/amigo/term/GO:0007269) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007269&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007269&list=upload_1&organism=Homo%20sapiens) | 2.94 | 5.78 | + | 4.54E-08 | 5.40E-06 | | [regulation of neurotransmitter levels](http://amigo.geneontology.org/amigo/term/GO:0001505) | [223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001505&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001505&list=upload_1&organism=Homo%20sapiens) | 7.71 | 3.50 | + | 9.16E-08 | 9.39E-06 | | [regulation of biological quality](http://amigo.geneontology.org/amigo/term/GO:0065008) | [3677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&reflist=1) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&list=upload_1&organism=Homo%20sapiens) | 127.16 | 1.49 | + | 1.92E-08 | 2.57E-06 | | [signal release from synapse](http://amigo.geneontology.org/amigo/term/GO:0099643) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099643&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099643&list=upload_1&organism=Homo%20sapiens) | 2.94 | 5.78 | + | 4.54E-08 | 5.36E-06 | | [synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099536) | [461](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&list=upload_1&organism=Homo%20sapiens) | 15.94 | 2.63 | + | 8.69E-08 | 9.09E-06 | | [cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:0007267) | [1083](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&list=upload_1&organism=Homo%20sapiens) | 37.45 | 1.87 | + | 1.25E-06 | 9.40E-05 | | [signaling](http://amigo.geneontology.org/amigo/term/GO:0023052) | [5231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&reflist=1) | [266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&list=upload_1&organism=Homo%20sapiens) | 180.90 | 1.47 | + | 5.85E-12 | 1.67E-09 | | [cell communication](http://amigo.geneontology.org/amigo/term/GO:0007154) | [5342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&reflist=1) | [269](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&list=upload_1&organism=Homo%20sapiens) | 184.73 | 1.46 | + | 1.11E-11 | 2.96E-09 | | [signal release](http://amigo.geneontology.org/amigo/term/GO:0023061) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023061&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023061&list=upload_1&organism=Homo%20sapiens) | 6.33 | 3.63 | + | 4.52E-07 | 3.73E-05 | | [neurotransmitter transport](http://amigo.geneontology.org/amigo/term/GO:0006836) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006836&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006836&list=upload_1&organism=Homo%20sapiens) | 4.77 | 3.98 | + | 1.33E-06 | 9.91E-05 | | [chemical synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0007268) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&list=upload_1&organism=Homo%20sapiens) | 14.32 | 2.51 | + | 1.58E-06 | 1.16E-04 | | [anterograde trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0098916) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&list=upload_1&organism=Homo%20sapiens) | 14.32 | 2.51 | + | 1.58E-06 | 1.16E-04 | | [trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099537) | [431](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&list=upload_1&organism=Homo%20sapiens) | 14.90 | 2.48 | + | 1.42E-06 | 1.05E-04 | | [positive regulation of cellular senescence](http://amigo.geneontology.org/amigo/term/GO:2000774) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000774&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000774&list=upload_1&organism=Homo%20sapiens) | .41 | 9.64 | + | 1.63E-03 | 4.09E-02 | | [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) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&list=upload_1&organism=Homo%20sapiens) | 107.96 | 1.77 | + | 5.04E-15 | 3.29E-12 | | [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) | [223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&list=upload_1&organism=Homo%20sapiens) | 133.42 | 1.67 | + | 3.30E-15 | 2.59E-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) | [353](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&list=upload_1&organism=Homo%20sapiens) | 233.56 | 1.51 | + | 1.27E-19 | 3.99E-16 | | [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) | [302](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&list=upload_1&organism=Homo%20sapiens) | 195.28 | 1.55 | + | 4.27E-17 | 5.58E-14 | | [cellular response to X-ray](http://amigo.geneontology.org/amigo/term/GO:0071481) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071481&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071481&list=upload_1&organism=Homo%20sapiens) | .41 | 9.64 | + | 1.63E-03 | 4.09E-02 | | [cellular response to ionizing radiation](http://amigo.geneontology.org/amigo/term/GO:0071479) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071479&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071479&list=upload_1&organism=Homo%20sapiens) | 2.59 | 4.63 | + | 3.17E-05 | 1.58E-03 | | [cellular response to radiation](http://amigo.geneontology.org/amigo/term/GO:0071478) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&list=upload_1&organism=Homo%20sapiens) | 6.29 | 2.70 | + | 3.93E-04 | 1.31E-02 | | [response to radiation](http://amigo.geneontology.org/amigo/term/GO:0009314) | [449](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&list=upload_1&organism=Homo%20sapiens) | 15.53 | 2.51 | + | 5.70E-07 | 4.56E-05 | | [response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009628) | [1121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&list=upload_1&organism=Homo%20sapiens) | 38.77 | 2.14 | + | 3.06E-10 | 6.48E-08 | | [cellular response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0071214) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&list=upload_1&organism=Homo%20sapiens) | 11.27 | 2.48 | + | 3.04E-05 | 1.54E-03 | | [cellular response to environmental stimulus](http://amigo.geneontology.org/amigo/term/GO:0104004) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&list=upload_1&organism=Homo%20sapiens) | 11.27 | 2.48 | + | 3.04E-05 | 1.54E-03 | | [cellular response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0051716) | [6569](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&reflist=1) | [322](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&list=upload_1&organism=Homo%20sapiens) | 227.17 | 1.42 | + | 3.94E-13 | 1.71E-10 | | [response to ionizing radiation](http://amigo.geneontology.org/amigo/term/GO:0010212) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&list=upload_1&organism=Homo%20sapiens) | 4.98 | 4.02 | + | 6.21E-07 | 4.94E-05 | | [response to X-ray](http://amigo.geneontology.org/amigo/term/GO:0010165) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010165&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010165&list=upload_1&organism=Homo%20sapiens) | 1.07 | 6.53 | + | 2.31E-04 | 8.64E-03 | | [regulation of neurotrophin TRK receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0051386) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051386&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051386&list=upload_1&organism=Homo%20sapiens) | .41 | 9.64 | + | 1.63E-03 | 4.08E-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) | [177](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&list=upload_1&organism=Homo%20sapiens) | 103.36 | 1.71 | + | 1.32E-12 | 4.14E-10 | | [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) | [221](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&list=upload_1&organism=Homo%20sapiens) | 139.50 | 1.58 | + | 1.14E-12 | 3.72E-10 | | [regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010646) | [3369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&reflist=1) | [204](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&list=upload_1&organism=Homo%20sapiens) | 116.51 | 1.75 | + | 8.47E-16 | 7.82E-13 | | [regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023051) | [3381](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&reflist=1) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&list=upload_1&organism=Homo%20sapiens) | 116.92 | 1.76 | + | 3.69E-16 | 4.13E-13 | | [regulation of cellular response to growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0090287) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&list=upload_1&organism=Homo%20sapiens) | 10.86 | 2.58 | + | 2.15E-05 | 1.13E-03 | | [amyloid fibril formation](http://amigo.geneontology.org/amigo/term/GO:1990000) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990000&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990000&list=upload_1&organism=Homo%20sapiens) | .90 | 8.90 | + | 1.26E-05 | 7.36E-04 | | [protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019538) | [3920](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&list=upload_1&organism=Homo%20sapiens) | 135.56 | 1.47 | + | 1.42E-08 | 2.01E-06 | | [macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043170) | [5941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&reflist=1) | [277](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&list=upload_1&organism=Homo%20sapiens) | 205.45 | 1.35 | + | 1.71E-08 | 2.33E-06 | | [primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044238) | [7228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&reflist=1) | [331](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&list=upload_1&organism=Homo%20sapiens) | 249.96 | 1.32 | + | 9.34E-10 | 1.72E-07 | | [supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:0097435) | [580](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097435&list=upload_1&organism=Homo%20sapiens) | 20.06 | 1.84 | + | 5.90E-04 | 1.78E-02 | | [cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0016043) | [5523](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&reflist=1) | [281](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&list=upload_1&organism=Homo%20sapiens) | 190.99 | 1.47 | + | 6.37E-13 | 2.44E-10 | | [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) | [287](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&list=upload_1&organism=Homo%20sapiens) | 198.05 | 1.45 | + | 2.05E-12 | 6.31E-10 | | [negative regulation of ubiquitin protein ligase activity](http://amigo.geneontology.org/amigo/term/GO:1904667) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904667&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904667&list=upload_1&organism=Homo%20sapiens) | .45 | 8.90 | + | 2.08E-03 | 4.89E-02 | | [negative regulation of ubiquitin-protein transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051444) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051444&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051444&list=upload_1&organism=Homo%20sapiens) | .80 | 6.29 | + | 2.13E-03 | 5.00E-02 | | [negative regulation of protein ubiquitination](http://amigo.geneontology.org/amigo/term/GO:0031397) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031397&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031397&list=upload_1&organism=Homo%20sapiens) | 2.87 | 4.18 | + | 7.66E-05 | 3.38E-03 | | [negative regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903321) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903321&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903321&list=upload_1&organism=Homo%20sapiens) | 3.29 | 4.26 | + | 1.63E-05 | 9.04E-04 | | [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) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&list=upload_1&organism=Homo%20sapiens) | 17.39 | 2.30 | + | 4.42E-06 | 2.83E-04 | | [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) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&list=upload_1&organism=Homo%20sapiens) | 36.03 | 2.14 | + | 1.84E-09 | 3.24E-07 | | [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) | [184](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&list=upload_1&organism=Homo%20sapiens) | 89.46 | 2.06 | + | 7.33E-21 | 3.83E-17 | | [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) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&list=upload_1&organism=Homo%20sapiens) | 203.06 | 1.56 | + | 5.49E-19 | 1.08E-15 | | [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) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&list=upload_1&organism=Homo%20sapiens) | 214.89 | 1.54 | + | 1.96E-19 | 5.12E-16 | | [regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051171) | [5709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&reflist=1) | [311](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&list=upload_1&organism=Homo%20sapiens) | 197.43 | 1.58 | + | 5.71E-19 | 9.96E-16 | | [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) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&list=upload_1&organism=Homo%20sapiens) | 95.58 | 1.83 | + | 4.79E-15 | 3.26E-12 | | [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) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&list=upload_1&organism=Homo%20sapiens) | 103.33 | 1.79 | + | 5.88E-15 | 3.69E-12 | | [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) | [296](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&list=upload_1&organism=Homo%20sapiens) | 183.77 | 1.61 | + | 3.06E-19 | 6.85E-16 | | [negative regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051172) | [2409](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&reflist=1) | [159](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&list=upload_1&organism=Homo%20sapiens) | 83.31 | 1.91 | + | 4.65E-15 | 3.31E-12 | | [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) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&list=upload_1&organism=Homo%20sapiens) | 54.05 | 2.31 | + | 1.40E-17 | 2.00E-14 | | [regulation of protein modification by small protein conjugation or removal](http://amigo.geneontology.org/amigo/term/GO:1903320) | [253](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903320&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903320&list=upload_1&organism=Homo%20sapiens) | 8.75 | 3.20 | + | 2.88E-07 | 2.58E-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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031396&list=upload_1&organism=Homo%20sapiens) | 7.30 | 2.88 | + | 3.70E-05 | 1.80E-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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051438&list=upload_1&organism=Homo%20sapiens) | 1.97 | 4.57 | + | 3.34E-04 | 1.16E-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) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&list=upload_1&organism=Homo%20sapiens) | 31.64 | 2.47 | + | 2.53E-12 | 7.64E-10 | | [regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0050790) | [2373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&reflist=1) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&list=upload_1&organism=Homo%20sapiens) | 82.06 | 1.84 | + | 5.04E-13 | 2.08E-10 | | [regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0065009) | [3094](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&reflist=1) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&list=upload_1&organism=Homo%20sapiens) | 107.00 | 1.78 | + | 4.03E-15 | 3.01E-12 | | [negative regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051348) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051348&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051348&list=upload_1&organism=Homo%20sapiens) | 9.51 | 2.42 | + | 2.23E-04 | 8.35E-03 | | [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) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&list=upload_1&organism=Homo%20sapiens) | 27.01 | 2.00 | + | 4.43E-06 | 2.82E-04 | | [negative regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044092) | [1150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&reflist=1) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&list=upload_1&organism=Homo%20sapiens) | 39.77 | 1.89 | + | 4.24E-07 | 3.57E-05 | | [regulation of ubiquitin protein ligase activity](http://amigo.geneontology.org/amigo/term/GO:1904666) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904666&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904666&list=upload_1&organism=Homo%20sapiens) | .90 | 6.67 | + | 5.89E-04 | 1.78E-02 | | [positive regulation of calcium ion-dependent exocytosis](http://amigo.geneontology.org/amigo/term/GO:0045956) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045956&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045956&list=upload_1&organism=Homo%20sapiens) | .59 | 8.51 | + | 6.75E-04 | 1.97E-02 | | [regulation of calcium ion-dependent exocytosis](http://amigo.geneontology.org/amigo/term/GO:0017158) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017158&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017158&list=upload_1&organism=Homo%20sapiens) | 1.42 | 4.94 | + | 1.01E-03 | 2.72E-02 | | [regulation of regulated secretory pathway](http://amigo.geneontology.org/amigo/term/GO:1903305) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903305&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903305&list=upload_1&organism=Homo%20sapiens) | 5.15 | 3.11 | + | 1.37E-04 | 5.49E-03 | | [regulation of exocytosis](http://amigo.geneontology.org/amigo/term/GO:0017157) | [217](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017157&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017157&list=upload_1&organism=Homo%20sapiens) | 7.50 | 3.20 | + | 2.03E-06 | 1.45E-04 | | [regulation of vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0060627) | [552](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&list=upload_1&organism=Homo%20sapiens) | 19.09 | 1.83 | + | 9.86E-04 | 2.68E-02 | | [regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051049) | [1766](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&reflist=1) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&list=upload_1&organism=Homo%20sapiens) | 61.07 | 1.82 | + | 3.28E-09 | 5.52E-07 | | [regulation of localization](http://amigo.geneontology.org/amigo/term/GO:0032879) | [2104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&reflist=1) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&list=upload_1&organism=Homo%20sapiens) | 72.76 | 1.81 | + | 6.07E-11 | 1.44E-08 | | [regulation of secretion by cell](http://amigo.geneontology.org/amigo/term/GO:1903530) | [566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903530&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903530&list=upload_1&organism=Homo%20sapiens) | 19.57 | 2.40 | + | 1.36E-07 | 1.31E-05 | | [regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051046) | [623](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051046&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051046&list=upload_1&organism=Homo%20sapiens) | 21.54 | 2.27 | + | 3.21E-07 | 2.82E-05 | | [positive regulation of regulated secretory pathway](http://amigo.geneontology.org/amigo/term/GO:1903307) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903307&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903307&list=upload_1&organism=Homo%20sapiens) | 1.80 | 4.45 | + | 8.26E-04 | 2.33E-02 | | [positive regulation of exocytosis](http://amigo.geneontology.org/amigo/term/GO:0045921) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045921&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045921&list=upload_1&organism=Homo%20sapiens) | 3.01 | 4.65 | + | 6.68E-06 | 4.11E-04 | | [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) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903532&list=upload_1&organism=Homo%20sapiens) | 9.82 | 2.44 | + | 1.43E-04 | 5.70E-03 | | [positive regulation of secretion](http://amigo.geneontology.org/amigo/term/GO:0051047) | [311](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051047&list=upload_1&organism=Homo%20sapiens) | 10.75 | 2.23 | + | 5.41E-04 | 1.66E-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) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&list=upload_1&organism=Homo%20sapiens) | 31.78 | 2.20 | + | 3.21E-09 | 5.47E-07 | | [positive regulation of neurotransmitter secretion](http://amigo.geneontology.org/amigo/term/GO:0001956) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001956&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001956&list=upload_1&organism=Homo%20sapiens) | .62 | 8.03 | + | 8.39E-04 | 2.36E-02 | | [regulation of neurotransmitter secretion](http://amigo.geneontology.org/amigo/term/GO:0046928) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046928&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046928&list=upload_1&organism=Homo%20sapiens) | 3.25 | 4.31 | + | 1.47E-05 | 8.43E-04 | | [modulation of chemical synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0050804) | [438](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050804&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050804&list=upload_1&organism=Homo%20sapiens) | 15.15 | 2.11 | + | 1.39E-04 | 5.54E-03 | | [regulation of trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099177) | [439](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099177&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099177&list=upload_1&organism=Homo%20sapiens) | 15.18 | 2.11 | + | 2.14E-04 | 8.14E-03 | | [regulation of neurotransmitter transport](http://amigo.geneontology.org/amigo/term/GO:0051588) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051588&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051588&list=upload_1&organism=Homo%20sapiens) | 3.73 | 4.02 | + | 1.55E-05 | 8.71E-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) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&list=upload_1&organism=Homo%20sapiens) | 58.65 | 1.84 | + | 2.54E-09 | 4.38E-07 | | [positive regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023056) | [1701](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&reflist=1) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&list=upload_1&organism=Homo%20sapiens) | 58.82 | 1.87 | + | 7.28E-10 | 1.39E-07 | | [negative regulation of amyloid-beta formation](http://amigo.geneontology.org/amigo/term/GO:1902430) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902430&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902430&list=upload_1&organism=Homo%20sapiens) | .62 | 8.03 | + | 8.39E-04 | 2.35E-02 | | [negative regulation of amyloid precursor protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1902992) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902992&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902992&list=upload_1&organism=Homo%20sapiens) | .73 | 6.89 | + | 1.51E-03 | 3.82E-02 | | [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) | [146](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&list=upload_1&organism=Homo%20sapiens) | 78.29 | 1.86 | + | 6.16E-13 | 2.41E-10 | | [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) | [268](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&list=upload_1&organism=Homo%20sapiens) | 163.64 | 1.64 | + | 8.49E-18 | 1.33E-14 | | [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) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&list=upload_1&organism=Homo%20sapiens) | 16.22 | 2.10 | + | 1.23E-04 | 4.98E-03 | | [ERBB2 signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038128) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&list=upload_1&organism=Homo%20sapiens) | .62 | 8.03 | + | 8.39E-04 | 2.35E-02 | | [transmembrane receptor protein tyrosine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007169) | [424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&list=upload_1&organism=Homo%20sapiens) | 14.66 | 1.91 | + | 2.01E-03 | 4.78E-02 | | [enzyme-linked receptor protein signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007167) | [640](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&list=upload_1&organism=Homo%20sapiens) | 22.13 | 1.72 | + | 2.14E-03 | 4.99E-02 | | [cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007166) | [2174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&reflist=1) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&list=upload_1&organism=Homo%20sapiens) | 75.18 | 1.48 | + | 5.77E-05 | 2.65E-03 | | [signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007165) | [4887](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&reflist=1) | [244](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&list=upload_1&organism=Homo%20sapiens) | 169.00 | 1.44 | + | 4.79E-10 | 9.76E-08 | | [cellular response to reactive nitrogen species](http://amigo.geneontology.org/amigo/term/GO:1902170) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902170&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902170&list=upload_1&organism=Homo%20sapiens) | .66 | 7.61 | + | 1.03E-03 | 2.76E-02 | | [cellular response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901699) | [641](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901699&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901699&list=upload_1&organism=Homo%20sapiens) | 22.17 | 1.89 | + | 1.92E-04 | 7.40E-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) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&list=upload_1&organism=Homo%20sapiens) | 90.47 | 1.78 | + | 8.71E-13 | 3.10E-10 | | [negative regulation of nucleotide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045980) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045980&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045980&list=upload_1&organism=Homo%20sapiens) | .80 | 7.54 | + | 3.36E-04 | 1.16E-02 | | [negative regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045936) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&list=upload_1&organism=Homo%20sapiens) | 14.59 | 2.33 | + | 1.50E-05 | 8.52E-04 | | [negative regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010563) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&list=upload_1&organism=Homo%20sapiens) | 14.63 | 2.32 | + | 1.55E-05 | 8.73E-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) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&list=upload_1&organism=Homo%20sapiens) | 48.59 | 2.28 | + | 2.94E-15 | 2.43E-12 | | [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) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&list=upload_1&organism=Homo%20sapiens) | 48.55 | 2.29 | + | 2.83E-15 | 2.47E-12 | | [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) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045934&list=upload_1&organism=Homo%20sapiens) | 54.02 | 1.91 | + | 9.68E-10 | 1.77E-07 | | [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) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&list=upload_1&organism=Homo%20sapiens) | 140.64 | 1.46 | + | 9.36E-09 | 1.37E-06 | | [regulation of nucleotide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006140) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006140&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006140&list=upload_1&organism=Homo%20sapiens) | 3.35 | 4.17 | + | 2.01E-05 | 1.08E-03 | | [regulation of small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0062012) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062012&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062012&list=upload_1&organism=Homo%20sapiens) | 11.52 | 2.26 | + | 2.63E-04 | 9.56E-03 | | [DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest](http://amigo.geneontology.org/amigo/term/GO:0006977) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006977&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006977&list=upload_1&organism=Homo%20sapiens) | .69 | 7.23 | + | 1.25E-03 | 3.24E-02 | | [DNA damage response, signal transduction by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:0030330) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030330&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030330&list=upload_1&organism=Homo%20sapiens) | 1.52 | 5.91 | + | 5.88E-05 | 2.69E-03 | | [signal transduction in response to DNA damage](http://amigo.geneontology.org/amigo/term/GO:0042770) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042770&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042770&list=upload_1&organism=Homo%20sapiens) | 4.67 | 3.00 | + | 4.86E-04 | 1.54E-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) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006974&list=upload_1&organism=Homo%20sapiens) | 26.14 | 2.03 | + | 3.22E-06 | 2.16E-04 | | [cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0033554) | [1599](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&reflist=1) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&list=upload_1&organism=Homo%20sapiens) | 55.30 | 1.79 | + | 4.47E-08 | 5.35E-06 | | [response to stress](http://amigo.geneontology.org/amigo/term/GO:0006950) | [3466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&reflist=1) | [187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&list=upload_1&organism=Homo%20sapiens) | 119.86 | 1.56 | + | 5.29E-10 | 1.05E-07 | | [intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:0035556) | [1511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&reflist=1) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&list=upload_1&organism=Homo%20sapiens) | 52.25 | 2.28 | + | 3.27E-16 | 3.95E-13 | | [signal transduction by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:0072331) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072331&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072331&list=upload_1&organism=Homo%20sapiens) | 3.18 | 5.34 | + | 1.24E-07 | 1.21E-05 | | [mitotic G1 DNA damage checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0031571) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031571&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031571&list=upload_1&organism=Homo%20sapiens) | 1.11 | 6.33 | + | 2.74E-04 | 9.87E-03 | | [mitotic G1/S transition checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0044819) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044819&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044819&list=upload_1&organism=Homo%20sapiens) | 1.14 | 6.13 | + | 3.22E-04 | 1.14E-02 | | [mitotic cell cycle checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0007093) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007093&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007093&list=upload_1&organism=Homo%20sapiens) | 4.39 | 3.19 | + | 2.76E-04 | 9.93E-03 | | [negative regulation of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045930) | [213](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045930&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045930&list=upload_1&organism=Homo%20sapiens) | 7.37 | 3.12 | + | 4.76E-06 | 3.00E-04 | | [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) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&list=upload_1&organism=Homo%20sapiens) | 17.05 | 3.05 | + | 1.16E-11 | 3.03E-09 | | [regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0051726) | [1122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&reflist=1) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&list=upload_1&organism=Homo%20sapiens) | 38.80 | 2.32 | + | 8.19E-13 | 2.99E-10 | | [negative regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0045786) | [359](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045786&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045786&list=upload_1&organism=Homo%20sapiens) | 12.41 | 3.06 | + | 6.68E-09 | 1.02E-06 | | [cell cycle checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0000075) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000075&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000075&list=upload_1&organism=Homo%20sapiens) | 5.43 | 2.58 | + | 1.86E-03 | 4.49E-02 | | [negative regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901988) | [224](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901988&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901988&list=upload_1&organism=Homo%20sapiens) | 7.75 | 2.58 | + | 2.18E-04 | 8.22E-03 | | [regulation of cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901987) | [431](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901987&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901987&list=upload_1&organism=Homo%20sapiens) | 14.90 | 2.62 | + | 2.95E-07 | 2.63E-05 | | [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) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&list=upload_1&organism=Homo%20sapiens) | 24.73 | 2.51 | + | 2.80E-10 | 6.10E-08 | | [negative regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0010948) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010948&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010948&list=upload_1&organism=Homo%20sapiens) | 9.41 | 2.87 | + | 3.15E-06 | 2.14E-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) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903047&list=upload_1&organism=Homo%20sapiens) | 18.43 | 2.33 | + | 1.41E-06 | 1.05E-04 | | [mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000278) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&list=upload_1&organism=Homo%20sapiens) | 21.68 | 2.35 | + | 8.47E-08 | 8.98E-06 | | [cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007049) | [1249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&reflist=1) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007049&list=upload_1&organism=Homo%20sapiens) | 43.19 | 1.94 | + | 2.29E-08 | 2.92E-06 | | [cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0022402) | [841](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022402&list=upload_1&organism=Homo%20sapiens) | 29.08 | 2.10 | + | 1.94E-07 | 1.81E-05 | | [negative regulation of G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:2000134) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000134&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000134&list=upload_1&organism=Homo%20sapiens) | 2.59 | 3.86 | + | 5.34E-04 | 1.64E-02 | | [regulation of G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:2000045) | [164](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000045&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000045&list=upload_1&organism=Homo%20sapiens) | 5.67 | 3.35 | + | 1.28E-05 | 7.45E-04 | | [regulation of cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:1902806) | [192](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902806&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902806&list=upload_1&organism=Homo%20sapiens) | 6.64 | 3.31 | + | 3.20E-06 | 2.15E-04 | | [regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901990) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901990&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901990&list=upload_1&organism=Homo%20sapiens) | 11.48 | 2.79 | + | 7.11E-07 | 5.60E-05 | | [negative regulation of mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:1901991) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901991&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901991&list=upload_1&organism=Homo%20sapiens) | 5.74 | 2.96 | + | 1.45E-04 | 5.75E-03 | | [negative regulation of cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:1902807) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902807&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902807&list=upload_1&organism=Homo%20sapiens) | 2.90 | 3.79 | + | 3.28E-04 | 1.14E-02 | | [mitotic DNA damage checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0044773) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044773&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044773&list=upload_1&organism=Homo%20sapiens) | 2.80 | 3.93 | + | 2.47E-04 | 9.11E-03 | | [DNA damage checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0000077) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000077&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000077&list=upload_1&organism=Homo%20sapiens) | 3.63 | 3.03 | + | 1.76E-03 | 4.33E-02 | | [mitotic DNA integrity checkpoint signaling](http://amigo.geneontology.org/amigo/term/GO:0044774) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044774&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044774&list=upload_1&organism=Homo%20sapiens) | 2.94 | 3.74 | + | 3.60E-04 | 1.22E-02 | | [regulation of protein neddylation](http://amigo.geneontology.org/amigo/term/GO:2000434) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000434&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000434&list=upload_1&organism=Homo%20sapiens) | .69 | 7.23 | + | 1.25E-03 | 3.23E-02 | | [establishment of mitotic spindle orientation](http://amigo.geneontology.org/amigo/term/GO:0000132) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000132&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000132&list=upload_1&organism=Homo%20sapiens) | 1.18 | 6.80 | + | 6.46E-05 | 2.90E-03 | | [establishment of spindle orientation](http://amigo.geneontology.org/amigo/term/GO:0051294) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051294&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051294&list=upload_1&organism=Homo%20sapiens) | 1.42 | 5.64 | + | 2.01E-04 | 7.70E-03 | | [establishment of spindle localization](http://amigo.geneontology.org/amigo/term/GO:0051293) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051293&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051293&list=upload_1&organism=Homo%20sapiens) | 1.90 | 5.26 | + | 5.56E-05 | 2.58E-03 | | [microtubule cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0000226) | [547](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000226&list=upload_1&organism=Homo%20sapiens) | 18.92 | 1.96 | + | 2.38E-04 | 8.84E-03 | | [cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0007010) | [1240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&reflist=1) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007010&list=upload_1&organism=Homo%20sapiens) | 42.88 | 1.59 | + | 3.23E-04 | 1.14E-02 | | [organelle organization](http://amigo.geneontology.org/amigo/term/GO:0006996) | [3026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&reflist=1) | [150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006996&list=upload_1&organism=Homo%20sapiens) | 104.64 | 1.43 | + | 8.20E-06 | 4.98E-04 | | [establishment of organelle localization](http://amigo.geneontology.org/amigo/term/GO:0051656) | [379](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051656&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051656&list=upload_1&organism=Homo%20sapiens) | 13.11 | 2.21 | + | 1.35E-04 | 5.43E-03 | | [organelle localization](http://amigo.geneontology.org/amigo/term/GO:0051640) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051640&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051640&list=upload_1&organism=Homo%20sapiens) | 17.74 | 2.48 | + | 1.38E-07 | 1.32E-05 | | [spindle localization](http://amigo.geneontology.org/amigo/term/GO:0051653) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051653&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051653&list=upload_1&organism=Homo%20sapiens) | 2.07 | 4.82 | + | 1.06E-04 | 4.47E-03 | | [establishment of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0030010) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&list=upload_1&organism=Homo%20sapiens) | 4.39 | 3.42 | + | 8.42E-05 | 3.67E-03 | | [establishment or maintenance of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0007163) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&list=upload_1&organism=Homo%20sapiens) | 7.26 | 2.34 | + | 2.13E-03 | 4.99E-02 | | [establishment of mitotic spindle localization](http://amigo.geneontology.org/amigo/term/GO:0040001) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040001&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040001&list=upload_1&organism=Homo%20sapiens) | 1.35 | 5.93 | + | 1.49E-04 | 5.87E-03 | | [positive regulation of transcription from RNA polymerase II promoter involved in cellular response to chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:1901522) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901522&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901522&list=upload_1&organism=Homo%20sapiens) | .76 | 6.57 | + | 1.80E-03 | 4.41E-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) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045944&list=upload_1&organism=Homo%20sapiens) | 43.54 | 1.81 | + | 8.49E-07 | 6.59E-05 | | [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) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045893&list=upload_1&organism=Homo%20sapiens) | 59.31 | 1.79 | + | 1.61E-08 | 2.22E-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) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006355&list=upload_1&organism=Homo%20sapiens) | 119.44 | 1.46 | + | 3.50E-07 | 3.05E-05 | | [regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010468) | [4855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&reflist=1) | [244](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&list=upload_1&organism=Homo%20sapiens) | 167.89 | 1.45 | + | 2.47E-10 | 5.53E-08 | | [regulation of nucleic acid-templated transcription](http://amigo.geneontology.org/amigo/term/GO:1903506) | [3456](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&reflist=1) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903506&list=upload_1&organism=Homo%20sapiens) | 119.51 | 1.46 | + | 2.07E-07 | 1.92E-05 | | [regulation of RNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2001141) | [3465](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&reflist=1) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001141&list=upload_1&organism=Homo%20sapiens) | 119.83 | 1.46 | + | 2.76E-07 | 2.49E-05 | | [regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010556) | [3938](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&reflist=1) | [197](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&list=upload_1&organism=Homo%20sapiens) | 136.18 | 1.45 | + | 5.89E-08 | 6.59E-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) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&list=upload_1&organism=Homo%20sapiens) | 143.96 | 1.47 | + | 5.37E-09 | 8.42E-07 | | [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) | [185](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051252&list=upload_1&organism=Homo%20sapiens) | 129.75 | 1.43 | + | 4.94E-07 | 4.04E-05 | | [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) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&list=upload_1&organism=Homo%20sapiens) | 141.85 | 1.47 | + | 6.08E-09 | 9.43E-07 | | [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) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903508&list=upload_1&organism=Homo%20sapiens) | 59.31 | 1.79 | + | 1.61E-08 | 2.24E-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) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902680&list=upload_1&organism=Homo%20sapiens) | 59.51 | 1.78 | + | 1.75E-08 | 2.36E-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) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051254&list=upload_1&organism=Homo%20sapiens) | 63.91 | 1.74 | + | 3.25E-08 | 3.95E-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) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&list=upload_1&organism=Homo%20sapiens) | 71.17 | 1.74 | + | 3.54E-09 | 5.91E-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) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&list=upload_1&organism=Homo%20sapiens) | 109.76 | 1.73 | + | 4.20E-14 | 2.00E-11 | | [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) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&list=upload_1&organism=Homo%20sapiens) | 122.49 | 1.68 | + | 3.41E-14 | 1.67E-11 | | [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) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&list=upload_1&organism=Homo%20sapiens) | 70.82 | 1.79 | + | 3.02E-10 | 6.50E-08 | | [positive regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009891) | [2087](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&reflist=1) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&list=upload_1&organism=Homo%20sapiens) | 72.17 | 1.79 | + | 2.76E-10 | 6.10E-08 | | [positive regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010557) | [1943](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&reflist=1) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&list=upload_1&organism=Homo%20sapiens) | 67.19 | 1.74 | + | 1.00E-08 | 1.46E-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) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006357&list=upload_1&organism=Homo%20sapiens) | 90.12 | 1.45 | + | 1.80E-05 | 9.73E-04 | | [fibroblast proliferation](http://amigo.geneontology.org/amigo/term/GO:0048144) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048144&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048144&list=upload_1&organism=Homo%20sapiens) | 1.24 | 6.43 | + | 9.15E-05 | 3.95E-03 | | [cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008283) | [718](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&list=upload_1&organism=Homo%20sapiens) | 24.83 | 2.05 | + | 3.23E-06 | 2.15E-04 | | [adrenal gland development](http://amigo.geneontology.org/amigo/term/GO:0030325) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030325&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030325&list=upload_1&organism=Homo%20sapiens) | .93 | 6.43 | + | 6.99E-04 | 2.03E-02 | | [gland development](http://amigo.geneontology.org/amigo/term/GO:0048732) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&list=upload_1&organism=Homo%20sapiens) | 14.59 | 1.99 | + | 7.94E-04 | 2.26E-02 | | [animal organ development](http://amigo.geneontology.org/amigo/term/GO:0048513) | [3254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&reflist=1) | [155](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&list=upload_1&organism=Homo%20sapiens) | 112.53 | 1.38 | + | 3.85E-05 | 1.84E-03 | | [anatomical structure development](http://amigo.geneontology.org/amigo/term/GO:0048856) | [5144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&reflist=1) | [266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&list=upload_1&organism=Homo%20sapiens) | 177.89 | 1.50 | + | 9.05E-13 | 3.15E-10 | | [developmental process](http://amigo.geneontology.org/amigo/term/GO:0032502) | [5677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&reflist=1) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&list=upload_1&organism=Homo%20sapiens) | 196.32 | 1.45 | + | 3.38E-12 | 9.83E-10 | | [system development](http://amigo.geneontology.org/amigo/term/GO:0048731) | [3838](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&reflist=1) | [204](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&list=upload_1&organism=Homo%20sapiens) | 132.72 | 1.54 | + | 2.01E-10 | 4.56E-08 | | [multicellular organism development](http://amigo.geneontology.org/amigo/term/GO:0007275) | [4228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&reflist=1) | [225](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&list=upload_1&organism=Homo%20sapiens) | 146.21 | 1.54 | + | 1.07E-11 | 2.95E-09 | | [multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0032501) | [6581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&reflist=1) | [305](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&list=upload_1&organism=Homo%20sapiens) | 227.58 | 1.34 | + | 2.36E-09 | 4.12E-07 | | [sequestering of metal ion](http://amigo.geneontology.org/amigo/term/GO:0051238) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051238&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051238&list=upload_1&organism=Homo%20sapiens) | .80 | 6.29 | + | 2.13E-03 | 4.99E-02 | | [maintenance of location](http://amigo.geneontology.org/amigo/term/GO:0051235) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051235&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051235&list=upload_1&organism=Homo%20sapiens) | 6.09 | 2.96 | + | 9.51E-05 | 4.07E-03 | | [synaptic vesicle endocytosis](http://amigo.geneontology.org/amigo/term/GO:0048488) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048488&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048488&list=upload_1&organism=Homo%20sapiens) | 1.97 | 6.09 | + | 2.73E-06 | 1.88E-04 | | [synaptic vesicle recycling](http://amigo.geneontology.org/amigo/term/GO:0036465) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036465&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036465&list=upload_1&organism=Homo%20sapiens) | 2.28 | 6.13 | + | 3.75E-07 | 3.18E-05 | | [presynaptic endocytosis](http://amigo.geneontology.org/amigo/term/GO:0140238) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140238&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140238&list=upload_1&organism=Homo%20sapiens) | 1.97 | 6.09 | + | 2.73E-06 | 1.89E-04 | | [cellular response to gamma radiation](http://amigo.geneontology.org/amigo/term/GO:0071480) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071480&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071480&list=upload_1&organism=Homo%20sapiens) | 1.00 | 5.98 | + | 9.68E-04 | 2.64E-02 | | [response to gamma radiation](http://amigo.geneontology.org/amigo/term/GO:0010332) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010332&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010332&list=upload_1&organism=Homo%20sapiens) | 1.94 | 4.65 | + | 2.97E-04 | 1.06E-02 | | [negative regulation of fibroblast proliferation](http://amigo.geneontology.org/amigo/term/GO:0048147) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048147&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048147&list=upload_1&organism=Homo%20sapiens) | 1.18 | 5.95 | + | 3.78E-04 | 1.26E-02 | | [negative regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008285) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&list=upload_1&organism=Homo%20sapiens) | 24.66 | 2.19 | + | 3.02E-07 | 2.68E-05 | | [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) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&list=upload_1&organism=Homo%20sapiens) | 57.89 | 2.06 | + | 3.57E-13 | 1.60E-10 | | [regulation of fibroblast proliferation](http://amigo.geneontology.org/amigo/term/GO:0048145) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048145&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048145&list=upload_1&organism=Homo%20sapiens) | 3.08 | 4.55 | + | 8.42E-06 | 5.10E-04 | | [extrinsic apoptotic signaling pathway in absence of ligand](http://amigo.geneontology.org/amigo/term/GO:0097192) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097192&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097192&list=upload_1&organism=Homo%20sapiens) | 1.18 | 5.95 | + | 3.78E-04 | 1.26E-02 | | [signal transduction in absence of ligand](http://amigo.geneontology.org/amigo/term/GO:0038034) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038034&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038034&list=upload_1&organism=Homo%20sapiens) | 1.18 | 5.95 | + | 3.78E-04 | 1.26E-02 | | [extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097191) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097191&list=upload_1&organism=Homo%20sapiens) | 3.80 | 3.42 | + | 2.45E-04 | 9.05E-03 | | [apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097190) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&list=upload_1&organism=Homo%20sapiens) | 10.93 | 3.02 | + | 8.85E-08 | 9.13E-06 | | [apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006915) | [1033](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&list=upload_1&organism=Homo%20sapiens) | 35.72 | 2.38 | + | 1.14E-12 | 3.80E-10 | | [programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0012501) | [1074](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&reflist=1) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&list=upload_1&organism=Homo%20sapiens) | 37.14 | 2.32 | + | 3.18E-12 | 9.42E-10 | | [cell death](http://amigo.geneontology.org/amigo/term/GO:0008219) | [1108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&list=upload_1&organism=Homo%20sapiens) | 38.32 | 2.32 | + | 1.06E-12 | 3.63E-10 | | [phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014065) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014065&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014065&list=upload_1&organism=Homo%20sapiens) | 1.56 | 5.78 | + | 6.85E-05 | 3.04E-03 | | [phosphatidylinositol-mediated signaling](http://amigo.geneontology.org/amigo/term/GO:0048015) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048015&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048015&list=upload_1&organism=Homo%20sapiens) | 2.80 | 3.93 | + | 2.47E-04 | 9.09E-03 | | [inositol lipid-mediated signaling](http://amigo.geneontology.org/amigo/term/GO:0048017) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048017&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048017&list=upload_1&organism=Homo%20sapiens) | 2.94 | 3.74 | + | 3.60E-04 | 1.22E-02 | | [regulation of dopamine secretion](http://amigo.geneontology.org/amigo/term/GO:0014059) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014059&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014059&list=upload_1&organism=Homo%20sapiens) | 1.28 | 5.47 | + | 5.90E-04 | 1.78E-02 | | [regulation of catecholamine secretion](http://amigo.geneontology.org/amigo/term/GO:0050433) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050433&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050433&list=upload_1&organism=Homo%20sapiens) | 1.97 | 4.57 | + | 3.34E-04 | 1.15E-02 | | [regulation of amine transport](http://amigo.geneontology.org/amigo/term/GO:0051952) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051952&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051952&list=upload_1&organism=Homo%20sapiens) | 3.39 | 3.54 | + | 3.13E-04 | 1.11E-02 | | [regulation of ion transport](http://amigo.geneontology.org/amigo/term/GO:0043269) | [708](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043269&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043269&list=upload_1&organism=Homo%20sapiens) | 24.48 | 1.92 | + | 4.65E-05 | 2.19E-03 | | [positive regulation of amine transport](http://amigo.geneontology.org/amigo/term/GO:0051954) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051954&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051954&list=upload_1&organism=Homo%20sapiens) | 1.49 | 5.38 | + | 2.67E-04 | 9.66E-03 | | [protein sumoylation](http://amigo.geneontology.org/amigo/term/GO:0016925) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016925&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016925&list=upload_1&organism=Homo%20sapiens) | 1.69 | 5.31 | + | 1.22E-04 | 4.96E-03 | | [protein modification process](http://amigo.geneontology.org/amigo/term/GO:0036211) | [2658](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&list=upload_1&organism=Homo%20sapiens) | 91.92 | 1.53 | + | 4.42E-07 | 3.67E-05 | | [macromolecule modification](http://amigo.geneontology.org/amigo/term/GO:0043412) | [2883](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&reflist=1) | [150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&list=upload_1&organism=Homo%20sapiens) | 99.70 | 1.50 | + | 4.64E-07 | 3.81E-05 | | [peptidyl-amino acid modification](http://amigo.geneontology.org/amigo/term/GO:0018193) | [882](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&list=upload_1&organism=Homo%20sapiens) | 30.50 | 2.20 | + | 8.53E-09 | 1.26E-06 | | [synaptic vesicle transport](http://amigo.geneontology.org/amigo/term/GO:0048489) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048489&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048489&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.26 | + | 1.74E-03 | 4.31E-02 | | [vesicle localization](http://amigo.geneontology.org/amigo/term/GO:0051648) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051648&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051648&list=upload_1&organism=Homo%20sapiens) | 6.19 | 2.58 | + | 8.90E-04 | 2.47E-02 | | [establishment of vesicle localization](http://amigo.geneontology.org/amigo/term/GO:0051650) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051650&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051650&list=upload_1&organism=Homo%20sapiens) | 5.81 | 2.75 | + | 4.74E-04 | 1.50E-02 | | [brain morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048854) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048854&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048854&list=upload_1&organism=Homo%20sapiens) | 1.35 | 5.19 | + | 7.78E-04 | 2.24E-02 | | [brain development](http://amigo.geneontology.org/amigo/term/GO:0007420) | [775](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&list=upload_1&organism=Homo%20sapiens) | 26.80 | 1.87 | + | 6.30E-05 | 2.86E-03 | | [central nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007417) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&list=upload_1&organism=Homo%20sapiens) | 35.76 | 1.82 | + | 8.85E-06 | 5.34E-04 | | [nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007399) | [2191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&list=upload_1&organism=Homo%20sapiens) | 75.77 | 1.68 | + | 1.94E-08 | 2.57E-06 | | [head development](http://amigo.geneontology.org/amigo/term/GO:0060322) | [823](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&list=upload_1&organism=Homo%20sapiens) | 28.46 | 1.79 | + | 1.08E-04 | 4.49E-03 | | [animal organ morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009887) | [1003](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&list=upload_1&organism=Homo%20sapiens) | 34.69 | 1.61 | + | 7.90E-04 | 2.26E-02 | | [anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009653) | [2237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&list=upload_1&organism=Homo%20sapiens) | 77.36 | 1.64 | + | 5.32E-08 | 6.09E-06 | | [intrinsic apoptotic signaling pathway by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:0072332) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072332&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072332&list=upload_1&organism=Homo%20sapiens) | 1.94 | 5.16 | + | 6.36E-05 | 2.88E-03 | | [intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097193) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&list=upload_1&organism=Homo%20sapiens) | 5.64 | 3.55 | + | 3.50E-06 | 2.31E-04 | | [glial cell migration](http://amigo.geneontology.org/amigo/term/GO:0008347) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008347&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008347&list=upload_1&organism=Homo%20sapiens) | 1.56 | 5.14 | + | 3.51E-04 | 1.20E-02 | | [neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0022008) | [1290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&list=upload_1&organism=Homo%20sapiens) | 44.61 | 1.82 | + | 5.23E-07 | 4.25E-05 | | [cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030154) | [3519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&reflist=1) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&list=upload_1&organism=Homo%20sapiens) | 121.69 | 1.46 | + | 1.90E-07 | 1.79E-05 | | [cellular developmental process](http://amigo.geneontology.org/amigo/term/GO:0048869) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&reflist=1) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&list=upload_1&organism=Homo%20sapiens) | 122.49 | 1.46 | + | 1.58E-07 | 1.50E-05 | | [positive regulation of DNA replication](http://amigo.geneontology.org/amigo/term/GO:0045740) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045740&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045740&list=upload_1&organism=Homo%20sapiens) | 1.38 | 5.06 | + | 8.89E-04 | 2.47E-02 | | [positive regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051054) | [305](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&list=upload_1&organism=Homo%20sapiens) | 10.55 | 2.09 | + | 1.75E-03 | 4.32E-02 | | [regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051052) | [541](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051052&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051052&list=upload_1&organism=Homo%20sapiens) | 18.71 | 2.14 | + | 1.77E-05 | 9.62E-04 | | [regulation of DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006275) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006275&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006275&list=upload_1&organism=Homo%20sapiens) | 4.70 | 2.98 | + | 5.20E-04 | 1.61E-02 | | [peptidyl-threonine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018107) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.96 | + | 1.72E-05 | 9.45E-04 | | [peptidyl-threonine modification](http://amigo.geneontology.org/amigo/term/GO:0018210) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&list=upload_1&organism=Homo%20sapiens) | 2.73 | 4.76 | + | 1.15E-05 | 6.78E-04 | | [protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0006468) | [719](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&list=upload_1&organism=Homo%20sapiens) | 24.86 | 2.17 | + | 3.52E-07 | 3.05E-05 | | [phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0016310) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&list=upload_1&organism=Homo%20sapiens) | 31.75 | 2.08 | + | 8.25E-08 | 8.92E-06 | | [phosphate-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006796) | [1855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&reflist=1) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&list=upload_1&organism=Homo%20sapiens) | 64.15 | 1.67 | + | 4.42E-07 | 3.68E-05 | | [phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006793) | [1881](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&list=upload_1&organism=Homo%20sapiens) | 65.05 | 1.68 | + | 2.59E-07 | 2.36E-05 | | [regulation of transcription from RNA polymerase II promoter in response to stress](http://amigo.geneontology.org/amigo/term/GO:0043618) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043618&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043618&list=upload_1&organism=Homo%20sapiens) | 1.42 | 4.94 | + | 1.01E-03 | 2.72E-02 | | [regulation of DNA-templated transcription in response to stress](http://amigo.geneontology.org/amigo/term/GO:0043620) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043620&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043620&list=upload_1&organism=Homo%20sapiens) | 1.63 | 4.92 | + | 4.55E-04 | 1.46E-02 | | [maintenance of protein localization in organelle](http://amigo.geneontology.org/amigo/term/GO:0072595) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072595&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072595&list=upload_1&organism=Homo%20sapiens) | 1.42 | 4.94 | + | 1.01E-03 | 2.71E-02 | | [maintenance of protein location in cell](http://amigo.geneontology.org/amigo/term/GO:0032507) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032507&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032507&list=upload_1&organism=Homo%20sapiens) | 2.25 | 4.00 | + | 7.86E-04 | 2.25E-02 | | [maintenance of location in cell](http://amigo.geneontology.org/amigo/term/GO:0051651) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051651&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051651&list=upload_1&organism=Homo%20sapiens) | 3.35 | 3.88 | + | 7.85E-05 | 3.44E-03 | | [maintenance of protein location](http://amigo.geneontology.org/amigo/term/GO:0045185) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045185&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045185&list=upload_1&organism=Homo%20sapiens) | 3.32 | 3.61 | + | 2.63E-04 | 9.54E-03 | | [protein localization](http://amigo.geneontology.org/amigo/term/GO:0008104) | [1919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&list=upload_1&organism=Homo%20sapiens) | 66.36 | 1.69 | + | 1.15E-07 | 1.14E-05 | | [cellular macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0070727) | [1925](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&reflist=1) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&list=upload_1&organism=Homo%20sapiens) | 66.57 | 1.68 | + | 1.21E-07 | 1.19E-05 | | [macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0033036) | [2345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033036&list=upload_1&organism=Homo%20sapiens) | 81.09 | 1.57 | + | 6.74E-07 | 5.34E-05 | | [protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0033365) | [694](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&list=upload_1&organism=Homo%20sapiens) | 24.00 | 1.96 | + | 2.61E-05 | 1.34E-03 | | [cellular senescence](http://amigo.geneontology.org/amigo/term/GO:0090398) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&list=upload_1&organism=Homo%20sapiens) | 2.07 | 4.82 | + | 1.06E-04 | 4.46E-03 | | [positive regulation of epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030858) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030858&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030858&list=upload_1&organism=Homo%20sapiens) | 2.11 | 4.74 | + | 1.20E-04 | 4.89E-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) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&list=upload_1&organism=Homo%20sapiens) | 30.57 | 1.90 | + | 7.07E-06 | 4.32E-04 | | [regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045595) | [1581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&reflist=1) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&list=upload_1&organism=Homo%20sapiens) | 54.67 | 1.90 | + | 8.12E-10 | 1.54E-07 | | [regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0050793) | [2489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&reflist=1) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&list=upload_1&organism=Homo%20sapiens) | 86.07 | 1.75 | + | 1.80E-11 | 4.62E-09 | | [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) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&list=upload_1&organism=Homo%20sapiens) | 46.30 | 1.73 | + | 3.87E-06 | 2.52E-04 | | [regulation of epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030856) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030856&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030856&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.42 | + | 1.65E-05 | 9.11E-04 | | [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) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&list=upload_1&organism=Homo%20sapiens) | 47.83 | 1.92 | + | 7.21E-09 | 1.08E-06 | | [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) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&list=upload_1&organism=Homo%20sapiens) | 95.10 | 1.77 | + | 4.75E-13 | 2.01E-10 | | [cellular response to epidermal growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0071364) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071364&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071364&list=upload_1&organism=Homo%20sapiens) | 1.49 | 4.71 | + | 1.29E-03 | 3.33E-02 | | [response to epidermal growth factor](http://amigo.geneontology.org/amigo/term/GO:0070849) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&list=upload_1&organism=Homo%20sapiens) | 1.63 | 4.31 | + | 2.05E-03 | 4.85E-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) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&list=upload_1&organism=Homo%20sapiens) | 17.53 | 2.45 | + | 3.68E-07 | 3.14E-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) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&list=upload_1&organism=Homo%20sapiens) | 47.41 | 1.86 | + | 6.13E-08 | 6.73E-06 | | [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) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&list=upload_1&organism=Homo%20sapiens) | 38.28 | 1.99 | + | 4.19E-08 | 5.05E-06 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&list=upload_1&organism=Homo%20sapiens) | 16.50 | 2.49 | + | 3.60E-07 | 3.10E-05 | | [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) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&list=upload_1&organism=Homo%20sapiens) | 70.06 | 1.84 | + | 4.36E-11 | 1.07E-08 | | [regulation of extrinsic apoptotic signaling pathway in absence of ligand](http://amigo.geneontology.org/amigo/term/GO:2001239) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001239&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001239&list=upload_1&organism=Homo%20sapiens) | 1.59 | 4.40 | + | 1.83E-03 | 4.46E-02 | | [regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001236) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&list=upload_1&organism=Homo%20sapiens) | 5.33 | 3.57 | + | 5.68E-06 | 3.52E-04 | | [regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001233) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&list=upload_1&organism=Homo%20sapiens) | 12.59 | 2.94 | + | 2.79E-08 | 3.49E-06 | | [branching involved in ureteric bud morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0001658) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001658&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001658&list=upload_1&organism=Homo%20sapiens) | 1.59 | 4.40 | + | 1.83E-03 | 4.46E-02 | | [ureteric bud development](http://amigo.geneontology.org/amigo/term/GO:0001657) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001657&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001657&list=upload_1&organism=Homo%20sapiens) | 3.04 | 3.61 | + | 4.70E-04 | 1.50E-02 | | [mesonephric tubule development](http://amigo.geneontology.org/amigo/term/GO:0072164) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072164&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072164&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.57 | + | 5.12E-04 | 1.61E-02 | | [mesonephric epithelium development](http://amigo.geneontology.org/amigo/term/GO:0072163) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072163&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072163&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.57 | + | 5.12E-04 | 1.60E-02 | | [mesonephros development](http://amigo.geneontology.org/amigo/term/GO:0001823) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001823&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001823&list=upload_1&organism=Homo%20sapiens) | 3.22 | 3.73 | + | 2.02E-04 | 7.72E-03 | | [kidney development](http://amigo.geneontology.org/amigo/term/GO:0001822) | [299](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001822&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001822&list=upload_1&organism=Homo%20sapiens) | 10.34 | 2.32 | + | 2.56E-04 | 9.35E-03 | | [renal system development](http://amigo.geneontology.org/amigo/term/GO:0072001) | [308](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072001&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072001&list=upload_1&organism=Homo%20sapiens) | 10.65 | 2.25 | + | 5.04E-04 | 1.58E-02 | | [urogenital system development](http://amigo.geneontology.org/amigo/term/GO:0001655) | [350](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001655&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001655&list=upload_1&organism=Homo%20sapiens) | 12.10 | 2.15 | + | 6.66E-04 | 1.95E-02 | | [epithelium development](http://amigo.geneontology.org/amigo/term/GO:0060429) | [1072](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&list=upload_1&organism=Homo%20sapiens) | 37.07 | 1.86 | + | 1.71E-06 | 1.24E-04 | | [tissue development](http://amigo.geneontology.org/amigo/term/GO:0009888) | [1726](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&reflist=1) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&list=upload_1&organism=Homo%20sapiens) | 59.69 | 1.69 | + | 5.40E-07 | 4.37E-05 | | [tube development](http://amigo.geneontology.org/amigo/term/GO:0035295) | [885](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&list=upload_1&organism=Homo%20sapiens) | 30.60 | 1.70 | + | 3.69E-04 | 1.24E-02 | | [tube morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0035239) | [673](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&list=upload_1&organism=Homo%20sapiens) | 23.27 | 1.80 | + | 4.21E-04 | 1.37E-02 | | [homotypic cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0034109) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034109&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034109&list=upload_1&organism=Homo%20sapiens) | 2.07 | 4.34 | + | 4.67E-04 | 1.49E-02 | | [cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0098609) | [543](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098609&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098609&list=upload_1&organism=Homo%20sapiens) | 18.78 | 1.81 | + | 1.39E-03 | 3.55E-02 | | [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) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902895&list=upload_1&organism=Homo%20sapiens) | 1.63 | 4.31 | + | 2.05E-03 | 4.84E-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) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000628&list=upload_1&organism=Homo%20sapiens) | 2.56 | 3.52 | + | 1.79E-03 | 4.40E-02 | | [regulation of miRNA transcription](http://amigo.geneontology.org/amigo/term/GO:1902893) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902893&list=upload_1&organism=Homo%20sapiens) | 2.18 | 4.13 | + | 6.42E-04 | 1.91E-02 | | [response to cadmium ion](http://amigo.geneontology.org/amigo/term/GO:0046686) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046686&list=upload_1&organism=Homo%20sapiens) | 2.11 | 4.27 | + | 5.21E-04 | 1.61E-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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&list=upload_1&organism=Homo%20sapiens) | 18.43 | 1.95 | + | 3.15E-04 | 1.12E-02 | | [regulation of microtubule polymerization](http://amigo.geneontology.org/amigo/term/GO:0031113) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031113&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031113&list=upload_1&organism=Homo%20sapiens) | 1.90 | 4.21 | + | 1.15E-03 | 3.01E-02 | | [regulation of microtubule cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0070507) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070507&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070507&list=upload_1&organism=Homo%20sapiens) | 5.43 | 3.13 | + | 7.81E-05 | 3.43E-03 | | [regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051493) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&list=upload_1&organism=Homo%20sapiens) | 18.67 | 1.93 | + | 3.52E-04 | 1.20E-02 | | [regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0033043) | [1189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&reflist=1) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&list=upload_1&organism=Homo%20sapiens) | 41.12 | 2.09 | + | 4.98E-10 | 1.00E-07 | | [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) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&list=upload_1&organism=Homo%20sapiens) | 81.75 | 1.80 | + | 6.23E-12 | 1.74E-09 | | [regulation of microtubule-based process](http://amigo.geneontology.org/amigo/term/GO:0032886) | [260](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032886&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032886&list=upload_1&organism=Homo%20sapiens) | 8.99 | 2.45 | + | 2.83E-04 | 1.01E-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) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&list=upload_1&organism=Homo%20sapiens) | 32.89 | 1.73 | + | 1.02E-04 | 4.33E-03 | | [regulation of signal transduction by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:1901796) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&list=upload_1&organism=Homo%20sapiens) | 3.60 | 4.17 | + | 1.03E-05 | 6.17E-04 | | [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) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&list=upload_1&organism=Homo%20sapiens) | 59.51 | 1.81 | + | 5.01E-09 | 8.19E-07 | | [negative regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001237) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&list=upload_1&organism=Homo%20sapiens) | 3.39 | 4.13 | + | 2.23E-05 | 1.17E-03 | | [negative regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001234) | [229](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&list=upload_1&organism=Homo%20sapiens) | 7.92 | 2.90 | + | 1.40E-05 | 8.08E-04 | | [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) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&list=upload_1&organism=Homo%20sapiens) | 31.05 | 2.09 | + | 1.01E-07 | 1.01E-05 | | [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) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&list=upload_1&organism=Homo%20sapiens) | 31.75 | 2.08 | + | 8.25E-08 | 8.86E-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) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&list=upload_1&organism=Homo%20sapiens) | 35.34 | 2.01 | + | 8.70E-08 | 9.03E-06 | | [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) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&list=upload_1&organism=Homo%20sapiens) | 43.47 | 1.86 | + | 2.35E-07 | 2.17E-05 | | [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) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&list=upload_1&organism=Homo%20sapiens) | 46.93 | 1.88 | + | 5.04E-08 | 5.86E-06 | | [negative regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023057) | [1363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&reflist=1) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&list=upload_1&organism=Homo%20sapiens) | 47.13 | 1.87 | + | 5.40E-08 | 6.14E-06 | | [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) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&list=upload_1&organism=Homo%20sapiens) | 56.02 | 1.77 | + | 8.07E-08 | 8.79E-06 | | [regulation of synaptic vesicle exocytosis](http://amigo.geneontology.org/amigo/term/GO:2000300) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000300&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000300&list=upload_1&organism=Homo%20sapiens) | 2.18 | 4.13 | + | 6.42E-04 | 1.91E-02 | | [G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000082) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000082&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000082&list=upload_1&organism=Homo%20sapiens) | 2.94 | 4.08 | + | 9.40E-05 | 4.04E-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) | 5.98 | 3.18 | + | 2.53E-05 | 1.30E-03 | | [cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044770) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&list=upload_1&organism=Homo%20sapiens) | 6.33 | 3.16 | + | 1.67E-05 | 9.17E-04 | | [cell cycle G1/S phase transition](http://amigo.geneontology.org/amigo/term/GO:0044843) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044843&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044843&list=upload_1&organism=Homo%20sapiens) | 3.01 | 3.99 | + | 1.15E-04 | 4.70E-03 | | [exocytic process](http://amigo.geneontology.org/amigo/term/GO:0140029) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140029&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140029&list=upload_1&organism=Homo%20sapiens) | 2.46 | 4.07 | + | 3.61E-04 | 1.22E-02 | | [neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0051402) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&list=upload_1&organism=Homo%20sapiens) | 3.25 | 4.00 | + | 5.87E-05 | 2.69E-03 | | [neuron death](http://amigo.geneontology.org/amigo/term/GO:0070997) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070997&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070997&list=upload_1&organism=Homo%20sapiens) | 3.63 | 3.86 | + | 4.43E-05 | 2.09E-03 | | [G2/M transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000086) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000086&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000086&list=upload_1&organism=Homo%20sapiens) | 2.01 | 3.99 | + | 1.56E-03 | 3.93E-02 | | [negative regulation of reproductive process](http://amigo.geneontology.org/amigo/term/GO:2000242) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000242&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000242&list=upload_1&organism=Homo%20sapiens) | 2.52 | 3.96 | + | 4.41E-04 | 1.42E-02 | | [intrinsic apoptotic signaling pathway in response to DNA damage](http://amigo.geneontology.org/amigo/term/GO:0008630) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008630&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008630&list=upload_1&organism=Homo%20sapiens) | 2.56 | 3.91 | + | 4.85E-04 | 1.54E-02 | | [smooth muscle contraction](http://amigo.geneontology.org/amigo/term/GO:0006939) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006939&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006939&list=upload_1&organism=Homo%20sapiens) | 2.07 | 3.86 | + | 1.89E-03 | 4.55E-02 | | [muscle contraction](http://amigo.geneontology.org/amigo/term/GO:0006936) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006936&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006936&list=upload_1&organism=Homo%20sapiens) | 7.95 | 2.26 | + | 2.00E-03 | 4.76E-02 | | [limbic system development](http://amigo.geneontology.org/amigo/term/GO:0021761) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&list=upload_1&organism=Homo%20sapiens) | 3.91 | 3.84 | + | 2.50E-05 | 1.29E-03 | | [forebrain development](http://amigo.geneontology.org/amigo/term/GO:0030900) | [388](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030900&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030900&list=upload_1&organism=Homo%20sapiens) | 13.42 | 2.31 | + | 4.32E-05 | 2.05E-03 | | [regulation of histone acetylation](http://amigo.geneontology.org/amigo/term/GO:0035065) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035065&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035065&list=upload_1&organism=Homo%20sapiens) | 2.35 | 3.83 | + | 1.05E-03 | 2.80E-02 | | [regulation of histone modification](http://amigo.geneontology.org/amigo/term/GO:0031056) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031056&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031056&list=upload_1&organism=Homo%20sapiens) | 6.26 | 2.72 | + | 3.71E-04 | 1.24E-02 | | [regulation of peptidyl-lysine acetylation](http://amigo.geneontology.org/amigo/term/GO:2000756) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&list=upload_1&organism=Homo%20sapiens) | 2.66 | 3.76 | + | 6.43E-04 | 1.90E-02 | | [regulation of protein acetylation](http://amigo.geneontology.org/amigo/term/GO:1901983) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.90 | + | 1.39E-04 | 5.55E-03 | | [collagen metabolic process](http://amigo.geneontology.org/amigo/term/GO:0032963) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032963&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032963&list=upload_1&organism=Homo%20sapiens) | 2.11 | 3.79 | + | 2.08E-03 | 4.89E-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) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901992&list=upload_1&organism=Homo%20sapiens) | 3.18 | 3.77 | + | 1.84E-04 | 7.12E-03 | | [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) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901989&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.52 | + | 1.08E-04 | 4.49E-03 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090068&list=upload_1&organism=Homo%20sapiens) | 8.68 | 2.42 | + | 4.37E-04 | 1.41E-02 | | [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) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045787&list=upload_1&organism=Homo%20sapiens) | 12.21 | 2.38 | + | 4.03E-05 | 1.92E-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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045931&list=upload_1&organism=Homo%20sapiens) | 4.18 | 4.06 | + | 3.72E-06 | 2.44E-04 | | [negative regulation of autophagy](http://amigo.geneontology.org/amigo/term/GO:0010507) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010507&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010507&list=upload_1&organism=Homo%20sapiens) | 2.97 | 3.70 | + | 3.94E-04 | 1.31E-02 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031330&list=upload_1&organism=Homo%20sapiens) | 8.37 | 2.51 | + | 3.44E-04 | 1.18E-02 | | [negative regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009895) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&list=upload_1&organism=Homo%20sapiens) | 11.27 | 2.57 | + | 1.50E-05 | 8.54E-04 | | [regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009894) | [987](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&list=upload_1&organism=Homo%20sapiens) | 34.13 | 2.02 | + | 9.45E-08 | 9.56E-06 | | [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) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&list=upload_1&organism=Homo%20sapiens) | 27.18 | 2.02 | + | 2.00E-06 | 1.43E-04 | | [regulation of autophagy](http://amigo.geneontology.org/amigo/term/GO:0010506) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&list=upload_1&organism=Homo%20sapiens) | 11.93 | 2.26 | + | 1.89E-04 | 7.27E-03 | | [regulation of ATP metabolic process](http://amigo.geneontology.org/amigo/term/GO:1903578) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903578&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903578&list=upload_1&organism=Homo%20sapiens) | 2.46 | 3.67 | + | 1.38E-03 | 3.54E-02 | | [regulation of purine nucleotide metabolic process](http://amigo.geneontology.org/amigo/term/GO:1900542) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900542&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900542&list=upload_1&organism=Homo%20sapiens) | 3.15 | 3.81 | + | 1.68E-04 | 6.56E-03 | | [positive regulation of protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:1900182) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900182&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900182&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.57 | + | 5.12E-04 | 1.60E-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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&list=upload_1&organism=Homo%20sapiens) | 15.98 | 1.94 | + | 8.26E-04 | 2.33E-02 | | [regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:0032880) | [850](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&list=upload_1&organism=Homo%20sapiens) | 29.39 | 1.94 | + | 4.64E-06 | 2.93E-04 | | [regulation of cellular localization](http://amigo.geneontology.org/amigo/term/GO:0060341) | [962](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&list=upload_1&organism=Homo%20sapiens) | 33.27 | 1.83 | + | 1.50E-05 | 8.50E-04 | | [regulation of protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:1900180) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900180&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900180&list=upload_1&organism=Homo%20sapiens) | 4.88 | 3.90 | + | 1.77E-06 | 1.27E-04 | | [cholesterol homeostasis](http://amigo.geneontology.org/amigo/term/GO:0042632) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042632&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042632&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.57 | + | 5.12E-04 | 1.60E-02 | | [sterol homeostasis](http://amigo.geneontology.org/amigo/term/GO:0055092) | [90](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055092&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055092&list=upload_1&organism=Homo%20sapiens) | 3.11 | 3.53 | + | 5.58E-04 | 1.70E-02 | | [chemical homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048878) | [916](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048878&list=upload_1&organism=Homo%20sapiens) | 31.68 | 1.70 | + | 2.35E-04 | 8.74E-03 | | [homeostatic process](http://amigo.geneontology.org/amigo/term/GO:0042592) | [1424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&list=upload_1&organism=Homo%20sapiens) | 49.24 | 1.54 | + | 3.23E-04 | 1.14E-02 | | [regulation of membrane permeability](http://amigo.geneontology.org/amigo/term/GO:0090559) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090559&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090559&list=upload_1&organism=Homo%20sapiens) | 2.52 | 3.57 | + | 1.65E-03 | 4.10E-02 | | [regulation of stem cell differentiation](http://amigo.geneontology.org/amigo/term/GO:2000736) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000736&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000736&list=upload_1&organism=Homo%20sapiens) | 2.84 | 3.53 | + | 9.99E-04 | 2.71E-02 | | [regulation of stem cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0072091) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072091&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072091&list=upload_1&organism=Homo%20sapiens) | 2.84 | 3.53 | + | 9.99E-04 | 2.70E-02 | | [negative regulation of response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:2001021) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001021&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001021&list=upload_1&organism=Homo%20sapiens) | 2.87 | 3.48 | + | 1.09E-03 | 2.88E-02 | | [regulation of response to DNA damage stimulus](http://amigo.geneontology.org/amigo/term/GO:2001020) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001020&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001020&list=upload_1&organism=Homo%20sapiens) | 10.86 | 2.39 | + | 9.31E-05 | 4.01E-03 | | [regulation of cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0080135) | [709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&list=upload_1&organism=Homo%20sapiens) | 24.52 | 1.92 | + | 4.73E-05 | 2.22E-03 | | [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) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&list=upload_1&organism=Homo%20sapiens) | 47.48 | 1.73 | + | 3.32E-06 | 2.20E-04 | | [organelle localization by membrane tethering](http://amigo.geneontology.org/amigo/term/GO:0140056) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140056&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0140056&list=upload_1&organism=Homo%20sapiens) | 2.87 | 3.48 | + | 1.09E-03 | 2.87E-02 | | [membrane docking](http://amigo.geneontology.org/amigo/term/GO:0022406) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022406&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022406&list=upload_1&organism=Homo%20sapiens) | 3.18 | 3.46 | + | 6.60E-04 | 1.94E-02 | | [regulation of organic acid transport](http://amigo.geneontology.org/amigo/term/GO:0032890) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032890&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032890&list=upload_1&organism=Homo%20sapiens) | 2.63 | 3.42 | + | 2.12E-03 | 4.97E-02 | | [positive regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901216) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&list=upload_1&organism=Homo%20sapiens) | 3.22 | 3.42 | + | 7.16E-04 | 2.07E-02 | | [regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901214) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&list=upload_1&organism=Homo%20sapiens) | 11.24 | 2.31 | + | 2.21E-04 | 8.29E-03 | | [negative regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0032091) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&list=upload_1&organism=Homo%20sapiens) | 3.25 | 3.38 | + | 7.76E-04 | 2.23E-02 | | [negative regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051100) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051100&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051100&list=upload_1&organism=Homo%20sapiens) | 5.64 | 2.66 | + | 9.72E-04 | 2.65E-02 | | [regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051098) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&list=upload_1&organism=Homo%20sapiens) | 12.93 | 2.09 | + | 6.08E-04 | 1.82E-02 | | [regulation of circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0042752) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042752&list=upload_1&organism=Homo%20sapiens) | 4.15 | 3.37 | + | 1.62E-04 | 6.32E-03 | | [positive regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032436) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032436&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032436&list=upload_1&organism=Homo%20sapiens) | 3.29 | 3.35 | + | 8.40E-04 | 2.35E-02 | | [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) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&list=upload_1&organism=Homo%20sapiens) | 5.95 | 3.53 | + | 2.16E-06 | 1.53E-04 | | [regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903050) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&list=upload_1&organism=Homo%20sapiens) | 7.88 | 3.04 | + | 4.44E-06 | 2.82E-04 | | [regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0030162) | [743](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&list=upload_1&organism=Homo%20sapiens) | 25.69 | 2.22 | + | 9.72E-08 | 9.77E-06 | | [positive regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903052) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903052&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903052&list=upload_1&organism=Homo%20sapiens) | 4.74 | 3.17 | + | 1.81E-04 | 7.01E-03 | | [positive regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045862) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&list=upload_1&organism=Homo%20sapiens) | 12.90 | 2.09 | + | 5.93E-04 | 1.78E-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) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&list=upload_1&organism=Homo%20sapiens) | 52.39 | 2.00 | + | 4.78E-11 | 1.15E-08 | | [positive regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009896) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009896&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009896&list=upload_1&organism=Homo%20sapiens) | 17.74 | 1.86 | + | 1.03E-03 | 2.75E-02 | | [positive regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901800) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901800&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901800&list=upload_1&organism=Homo%20sapiens) | 4.12 | 3.40 | + | 1.49E-04 | 5.88E-03 | | [regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0061136) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&list=upload_1&organism=Homo%20sapiens) | 6.71 | 2.83 | + | 1.04E-04 | 4.40E-03 | | [regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0042176) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&list=upload_1&organism=Homo%20sapiens) | 12.69 | 2.76 | + | 2.71E-07 | 2.46E-05 | | [positive regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0045732) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045732&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045732&list=upload_1&organism=Homo%20sapiens) | 7.44 | 2.69 | + | 1.32E-04 | 5.30E-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) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&list=upload_1&organism=Homo%20sapiens) | 4.91 | 3.46 | + | 2.48E-05 | 1.28E-03 | | [positive regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001235) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001235&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001235&list=upload_1&organism=Homo%20sapiens) | 4.50 | 3.34 | + | 1.07E-04 | 4.48E-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) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&list=upload_1&organism=Homo%20sapiens) | 52.84 | 1.84 | + | 2.22E-08 | 2.86E-06 | | [positive regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048584) | [2223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&reflist=1) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&list=upload_1&organism=Homo%20sapiens) | 76.87 | 1.60 | + | 3.64E-07 | 3.12E-05 | | [columnar/cuboidal epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0002065) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002065&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002065&list=upload_1&organism=Homo%20sapiens) | 3.63 | 3.30 | + | 5.52E-04 | 1.69E-02 | | [epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030855) | [620](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&list=upload_1&organism=Homo%20sapiens) | 21.44 | 1.91 | + | 1.54E-04 | 6.07E-03 | | [peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018108) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&list=upload_1&organism=Homo%20sapiens) | 5.81 | 3.27 | + | 1.75E-05 | 9.54E-04 | | [peptidyl-tyrosine modification](http://amigo.geneontology.org/amigo/term/GO:0018212) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&list=upload_1&organism=Homo%20sapiens) | 5.88 | 3.23 | + | 2.03E-05 | 1.09E-03 | | [regulation of cyclin-dependent protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0000079) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.27 | + | 3.62E-04 | 1.22E-02 | | [regulation of cyclin-dependent protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:1904029) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&list=upload_1&organism=Homo%20sapiens) | 4.08 | 3.19 | + | 4.54E-04 | 1.45E-02 | | [regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045859) | [668](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&list=upload_1&organism=Homo%20sapiens) | 23.10 | 2.21 | + | 4.40E-07 | 3.69E-05 | | [regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043549) | [783](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&list=upload_1&organism=Homo%20sapiens) | 27.08 | 2.29 | + | 6.79E-09 | 1.02E-06 | | [regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042325) | [1248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&reflist=1) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&list=upload_1&organism=Homo%20sapiens) | 43.16 | 2.25 | + | 5.59E-13 | 2.25E-10 | | [regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001932) | [1105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&list=upload_1&organism=Homo%20sapiens) | 38.21 | 2.07 | + | 5.13E-09 | 8.12E-07 | | [regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071900) | [391](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&list=upload_1&organism=Homo%20sapiens) | 13.52 | 2.29 | + | 4.73E-05 | 2.22E-03 | | [regulation of blood vessel endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0043535) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&list=upload_1&organism=Homo%20sapiens) | 3.15 | 3.18 | + | 2.04E-03 | 4.83E-02 | | [regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030334) | [929](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&list=upload_1&organism=Homo%20sapiens) | 32.13 | 1.59 | + | 1.85E-03 | 4.49E-02 | | [regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000145) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&list=upload_1&organism=Homo%20sapiens) | 34.20 | 1.58 | + | 1.40E-03 | 3.57E-02 | | [regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040012) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&list=upload_1&organism=Homo%20sapiens) | 35.76 | 1.59 | + | 9.40E-04 | 2.58E-02 | | [positive regulation of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:1905477) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&list=upload_1&organism=Homo%20sapiens) | 3.60 | 3.06 | + | 1.64E-03 | 4.09E-02 | | [negative regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071901) | [114](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071901&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071901&list=upload_1&organism=Homo%20sapiens) | 3.94 | 3.04 | + | 1.07E-03 | 2.83E-02 | | [negative regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042326) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042326&list=upload_1&organism=Homo%20sapiens) | 12.62 | 2.06 | + | 9.02E-04 | 2.49E-02 | | [cytoplasmic translation](http://amigo.geneontology.org/amigo/term/GO:0002181) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002181&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002181&list=upload_1&organism=Homo%20sapiens) | 4.29 | 3.03 | + | 6.96E-04 | 2.03E-02 | | [gene expression](http://amigo.geneontology.org/amigo/term/GO:0010467) | [2314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&reflist=1) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010467&list=upload_1&organism=Homo%20sapiens) | 80.02 | 1.35 | + | 1.75E-03 | 4.32E-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) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044260&list=upload_1&organism=Homo%20sapiens) | 87.08 | 1.36 | + | 9.38E-04 | 2.57E-02 | | [protein import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0006606) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006606&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006606&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.02 | + | 1.14E-03 | 3.02E-02 | | [protein localization to nucleus](http://amigo.geneontology.org/amigo/term/GO:0034504) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034504&list=upload_1&organism=Homo%20sapiens) | 6.71 | 3.13 | + | 1.18E-05 | 6.95E-04 | | [intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0006886) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&list=upload_1&organism=Homo%20sapiens) | 23.58 | 1.74 | + | 1.00E-03 | 2.71E-02 | | [intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0046907) | [1360](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046907&list=upload_1&organism=Homo%20sapiens) | 47.03 | 1.72 | + | 4.34E-06 | 2.80E-04 | | [protein transport](http://amigo.geneontology.org/amigo/term/GO:0015031) | [1179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0015031&list=upload_1&organism=Homo%20sapiens) | 40.77 | 1.59 | + | 3.30E-04 | 1.15E-02 | | [establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0045184) | [1267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045184&list=upload_1&organism=Homo%20sapiens) | 43.81 | 1.62 | + | 1.09E-04 | 4.48E-03 | | [nitrogen compound transport](http://amigo.geneontology.org/amigo/term/GO:0071705) | [1589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&reflist=1) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071705&list=upload_1&organism=Homo%20sapiens) | 54.95 | 1.44 | + | 1.73E-03 | 4.29E-02 | | [organic substance transport](http://amigo.geneontology.org/amigo/term/GO:0071702) | [1964](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071702&list=upload_1&organism=Homo%20sapiens) | 67.92 | 1.40 | + | 1.22E-03 | 3.17E-02 | | [import into nucleus](http://amigo.geneontology.org/amigo/term/GO:0051170) | [119](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051170&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051170&list=upload_1&organism=Homo%20sapiens) | 4.12 | 2.92 | + | 1.50E-03 | 3.80E-02 | | [microtubule organizing center organization](http://amigo.geneontology.org/amigo/term/GO:0031023) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031023&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031023&list=upload_1&organism=Homo%20sapiens) | 3.67 | 3.00 | + | 1.89E-03 | 4.55E-02 | | [peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018105) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&list=upload_1&organism=Homo%20sapiens) | 6.43 | 2.95 | + | 6.23E-05 | 2.84E-03 | | [peptidyl-serine modification](http://amigo.geneontology.org/amigo/term/GO:0018209) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&list=upload_1&organism=Homo%20sapiens) | 7.12 | 2.95 | + | 2.68E-05 | 1.37E-03 | | [circadian rhythm](http://amigo.geneontology.org/amigo/term/GO:0007623) | [138](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007623&list=upload_1&organism=Homo%20sapiens) | 4.77 | 2.93 | + | 5.94E-04 | 1.78E-02 | | [rhythmic process](http://amigo.geneontology.org/amigo/term/GO:0048511) | [272](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048511&list=upload_1&organism=Homo%20sapiens) | 9.41 | 2.87 | + | 3.15E-06 | 2.15E-04 | | [viral life cycle](http://amigo.geneontology.org/amigo/term/GO:0019058) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019058&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019058&list=upload_1&organism=Homo%20sapiens) | 6.16 | 2.92 | + | 1.08E-04 | 4.50E-03 | | [viral process](http://amigo.geneontology.org/amigo/term/GO:0016032) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&list=upload_1&organism=Homo%20sapiens) | 8.68 | 2.76 | + | 1.94E-05 | 1.04E-03 | | [movement in host](http://amigo.geneontology.org/amigo/term/GO:0044000) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044000&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044000&list=upload_1&organism=Homo%20sapiens) | 4.81 | 2.91 | + | 6.34E-04 | 1.89E-02 | | [biological process involved in interaction with host](http://amigo.geneontology.org/amigo/term/GO:0051701) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&list=upload_1&organism=Homo%20sapiens) | 5.39 | 2.78 | + | 6.43E-04 | 1.91E-02 | | [cerebral cortex development](http://amigo.geneontology.org/amigo/term/GO:0021987) | [120](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021987&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021987&list=upload_1&organism=Homo%20sapiens) | 4.15 | 2.89 | + | 1.60E-03 | 4.01E-02 | | [pallium development](http://amigo.geneontology.org/amigo/term/GO:0021543) | [177](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021543&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021543&list=upload_1&organism=Homo%20sapiens) | 6.12 | 2.45 | + | 2.07E-03 | 4.88E-02 | | [telencephalon development](http://amigo.geneontology.org/amigo/term/GO:0021537) | [259](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021537&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021537&list=upload_1&organism=Homo%20sapiens) | 8.96 | 2.34 | + | 5.77E-04 | 1.75E-02 | | [regulation of mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0010821) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&list=upload_1&organism=Homo%20sapiens) | 5.26 | 2.85 | + | 5.02E-04 | 1.58E-02 | | [regulation of smooth muscle cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0048660) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&list=upload_1&organism=Homo%20sapiens) | 4.91 | 2.85 | + | 7.69E-04 | 2.22E-02 | | [regulation of generation of precursor metabolites and energy](http://amigo.geneontology.org/amigo/term/GO:0043467) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&list=upload_1&organism=Homo%20sapiens) | 4.56 | 2.85 | + | 1.18E-03 | 3.09E-02 | | [positive regulation of protein-containing complex assembly](http://amigo.geneontology.org/amigo/term/GO:0031334) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031334&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031334&list=upload_1&organism=Homo%20sapiens) | 6.71 | 2.83 | + | 1.04E-04 | 4.41E-03 | | [positive regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044089) | [501](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&list=upload_1&organism=Homo%20sapiens) | 17.33 | 2.19 | + | 1.55E-05 | 8.70E-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) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&list=upload_1&organism=Homo%20sapiens) | 36.45 | 1.92 | + | 5.44E-07 | 4.37E-05 | | [response to estradiol](http://amigo.geneontology.org/amigo/term/GO:0032355) | [123](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032355&list=upload_1&organism=Homo%20sapiens) | 4.25 | 2.82 | + | 1.93E-03 | 4.65E-02 | | [response to lipid](http://amigo.geneontology.org/amigo/term/GO:0033993) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&list=upload_1&organism=Homo%20sapiens) | 29.15 | 1.85 | + | 3.61E-05 | 1.76E-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) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&list=upload_1&organism=Homo%20sapiens) | 30.40 | 1.88 | + | 1.48E-05 | 8.45E-04 | | [negative regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050768) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050768&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050768&list=upload_1&organism=Homo%20sapiens) | 4.98 | 2.81 | + | 8.72E-04 | 2.43E-02 | | [regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050767) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&list=upload_1&organism=Homo%20sapiens) | 12.90 | 2.17 | + | 3.35E-04 | 1.16E-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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&list=upload_1&organism=Homo%20sapiens) | 15.63 | 1.98 | + | 7.12E-04 | 2.06E-02 | | [regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0060284) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&list=upload_1&organism=Homo%20sapiens) | 17.74 | 1.97 | + | 2.57E-04 | 9.38E-03 | | [negative regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051961) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051961&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051961&list=upload_1&organism=Homo%20sapiens) | 5.15 | 2.91 | + | 4.14E-04 | 1.35E-02 | | [negative regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051241) | [1039](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&list=upload_1&organism=Homo%20sapiens) | 35.93 | 1.75 | + | 3.14E-05 | 1.57E-03 | | [negative regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0051093) | [923](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&list=upload_1&organism=Homo%20sapiens) | 31.92 | 1.82 | + | 2.46E-05 | 1.28E-03 | | [negative regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0030308) | [188](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030308&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030308&list=upload_1&organism=Homo%20sapiens) | 6.50 | 2.77 | + | 2.03E-04 | 7.74E-03 | | [regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0001558) | [429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&list=upload_1&organism=Homo%20sapiens) | 14.84 | 2.76 | + | 2.43E-08 | 3.07E-06 | | [regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0040008) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&list=upload_1&organism=Homo%20sapiens) | 21.68 | 2.54 | + | 1.72E-09 | 3.06E-07 | | [negative regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0045926) | [247](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045926&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045926&list=upload_1&organism=Homo%20sapiens) | 8.54 | 2.58 | + | 1.11E-04 | 4.57E-03 | | [MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0000165) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&list=upload_1&organism=Homo%20sapiens) | 7.61 | 2.76 | + | 6.45E-05 | 2.90E-03 | | [positive regulation of small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0062013) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&list=upload_1&organism=Homo%20sapiens) | 5.08 | 2.75 | + | 1.05E-03 | 2.79E-02 | | [protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0046777) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&list=upload_1&organism=Homo%20sapiens) | 6.54 | 2.75 | + | 2.15E-04 | 8.16E-03 | | [cellular response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0034599) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&list=upload_1&organism=Homo%20sapiens) | 7.68 | 2.74 | + | 7.26E-05 | 3.22E-03 | | [cellular response to chemical stress](http://amigo.geneontology.org/amigo/term/GO:0062197) | [273](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&list=upload_1&organism=Homo%20sapiens) | 9.44 | 2.75 | + | 9.41E-06 | 5.65E-04 | | [response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0006979) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006979&list=upload_1&organism=Homo%20sapiens) | 12.69 | 2.13 | + | 5.20E-04 | 1.61E-02 | | [axon guidance](http://amigo.geneontology.org/amigo/term/GO:0007411) | [235](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007411&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007411&list=upload_1&organism=Homo%20sapiens) | 8.13 | 2.71 | + | 5.68E-05 | 2.62E-03 | | [neuron projection guidance](http://amigo.geneontology.org/amigo/term/GO:0097485) | [236](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097485&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097485&list=upload_1&organism=Homo%20sapiens) | 8.16 | 2.82 | + | 2.18E-05 | 1.15E-03 | | [neuron projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048812) | [479](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&list=upload_1&organism=Homo%20sapiens) | 16.56 | 2.66 | + | 2.18E-08 | 2.82E-06 | | [neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0031175) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&list=upload_1&organism=Homo%20sapiens) | 23.41 | 2.39 | + | 1.17E-08 | 1.67E-06 | | [neuron development](http://amigo.geneontology.org/amigo/term/GO:0048666) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&list=upload_1&organism=Homo%20sapiens) | 29.15 | 2.02 | + | 9.41E-07 | 7.23E-05 | | [cell development](http://amigo.geneontology.org/amigo/term/GO:0048468) | [1725](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&list=upload_1&organism=Homo%20sapiens) | 59.65 | 1.56 | + | 3.83E-05 | 1.84E-03 | | [neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0030182) | [1065](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&list=upload_1&organism=Homo%20sapiens) | 36.83 | 1.90 | + | 9.56E-07 | 7.31E-05 | | [generation of neurons](http://amigo.geneontology.org/amigo/term/GO:0048699) | [1134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&list=upload_1&organism=Homo%20sapiens) | 39.22 | 1.86 | + | 8.78E-07 | 6.78E-05 | | [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) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&list=upload_1&organism=Homo%20sapiens) | 38.56 | 1.82 | + | 3.78E-06 | 2.47E-04 | | [cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0030030) | [1161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&list=upload_1&organism=Homo%20sapiens) | 40.15 | 1.82 | + | 2.57E-06 | 1.80E-04 | | [plasma membrane bounded cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0120039) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&list=upload_1&organism=Homo%20sapiens) | 16.74 | 2.69 | + | 1.08E-08 | 1.55E-06 | | [cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048858) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&list=upload_1&organism=Homo%20sapiens) | 16.91 | 2.66 | + | 1.43E-08 | 2.00E-06 | | [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) | 24.66 | 2.27 | + | 5.32E-08 | 6.13E-06 | | [cell part morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032990) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&list=upload_1&organism=Homo%20sapiens) | 17.57 | 2.62 | + | 2.06E-08 | 2.72E-06 | | [cellular component morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032989) | [604](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&list=upload_1&organism=Homo%20sapiens) | 20.89 | 2.30 | + | 3.44E-07 | 3.02E-05 | | [chemotaxis](http://amigo.geneontology.org/amigo/term/GO:0006935) | [518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006935&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006935&list=upload_1&organism=Homo%20sapiens) | 17.91 | 1.95 | + | 4.16E-04 | 1.36E-02 | | [taxis](http://amigo.geneontology.org/amigo/term/GO:0042330) | [520](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042330&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042330&list=upload_1&organism=Homo%20sapiens) | 17.98 | 1.95 | + | 4.25E-04 | 1.38E-02 | | [response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0009605) | [2469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&reflist=1) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&list=upload_1&organism=Homo%20sapiens) | 85.38 | 1.50 | + | 5.07E-06 | 3.17E-04 | | [locomotion](http://amigo.geneontology.org/amigo/term/GO:0040011) | [539](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040011&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040011&list=upload_1&organism=Homo%20sapiens) | 18.64 | 1.88 | + | 8.37E-04 | 2.36E-02 | | [axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0007409) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&list=upload_1&organism=Homo%20sapiens) | 12.62 | 2.77 | + | 2.41E-07 | 2.21E-05 | | [cell morphogenesis involved in neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0048667) | [440](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&list=upload_1&organism=Homo%20sapiens) | 15.22 | 2.63 | + | 1.91E-07 | 1.80E-05 | | [cell morphogenesis involved in differentiation](http://amigo.geneontology.org/amigo/term/GO:0000904) | [556](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&list=upload_1&organism=Homo%20sapiens) | 19.23 | 2.29 | + | 1.29E-06 | 9.67E-05 | | [axon development](http://amigo.geneontology.org/amigo/term/GO:0061564) | [404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&list=upload_1&organism=Homo%20sapiens) | 13.97 | 2.72 | + | 1.16E-07 | 1.14E-05 | | [regulation of lipid transport](http://amigo.geneontology.org/amigo/term/GO:0032368) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032368&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032368&list=upload_1&organism=Homo%20sapiens) | 4.81 | 2.70 | + | 1.81E-03 | 4.42E-02 | | [regulation of transforming growth factor beta receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0017015) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017015&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0017015&list=upload_1&organism=Homo%20sapiens) | 4.81 | 2.70 | + | 1.81E-03 | 4.42E-02 | | [response to UV](http://amigo.geneontology.org/amigo/term/GO:0009411) | [151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009411&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009411&list=upload_1&organism=Homo%20sapiens) | 5.22 | 2.68 | + | 1.33E-03 | 3.41E-02 | | [response to light stimulus](http://amigo.geneontology.org/amigo/term/GO:0009416) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009416&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009416&list=upload_1&organism=Homo%20sapiens) | 10.96 | 2.19 | + | 6.37E-04 | 1.90E-02 | | [regulation of MAP kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043405) | [184](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&list=upload_1&organism=Homo%20sapiens) | 6.36 | 2.67 | + | 4.41E-04 | 1.42E-02 | | [protein stabilization](http://amigo.geneontology.org/amigo/term/GO:0050821) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&list=upload_1&organism=Homo%20sapiens) | 7.54 | 2.65 | + | 1.56E-04 | 6.13E-03 | | [regulation of protein stability](http://amigo.geneontology.org/amigo/term/GO:0031647) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&list=upload_1&organism=Homo%20sapiens) | 11.52 | 2.34 | + | 9.04E-05 | 3.92E-03 | | [positive regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050679) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&list=upload_1&organism=Homo%20sapiens) | 7.23 | 2.63 | + | 2.52E-04 | 9.23E-03 | | [regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050678) | [369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&list=upload_1&organism=Homo%20sapiens) | 12.76 | 2.35 | + | 5.09E-05 | 2.37E-03 | | [positive regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008284) | [949](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&reflist=1) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&list=upload_1&organism=Homo%20sapiens) | 32.82 | 1.95 | + | 9.81E-07 | 7.47E-05 | | [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) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&list=upload_1&organism=Homo%20sapiens) | 6.92 | 2.60 | + | 4.05E-04 | 1.33E-02 | | [cellular response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0071241) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071241&list=upload_1&organism=Homo%20sapiens) | 7.95 | 2.77 | + | 4.23E-05 | 2.01E-03 | | [regulation of intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001242) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001242&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001242&list=upload_1&organism=Homo%20sapiens) | 5.78 | 2.60 | + | 1.22E-03 | 3.17E-02 | | [positive regulation of ion transport](http://amigo.geneontology.org/amigo/term/GO:0043270) | [290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043270&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043270&list=upload_1&organism=Homo%20sapiens) | 10.03 | 2.59 | + | 2.47E-05 | 1.28E-03 | | [regulation of axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0050770) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&list=upload_1&organism=Homo%20sapiens) | 5.46 | 2.56 | + | 1.96E-03 | 4.70E-02 | | [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) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&list=upload_1&organism=Homo%20sapiens) | 15.39 | 2.01 | + | 4.16E-04 | 1.36E-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) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&list=upload_1&organism=Homo%20sapiens) | 22.13 | 1.99 | + | 3.32E-05 | 1.65E-03 | | [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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&list=upload_1&organism=Homo%20sapiens) | 22.69 | 1.98 | + | 3.71E-05 | 1.80E-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) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&list=upload_1&organism=Homo%20sapiens) | 31.95 | 1.63 | + | 9.56E-04 | 2.61E-02 | | [cellular component disassembly](http://amigo.geneontology.org/amigo/term/GO:0022411) | [318](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022411&list=upload_1&organism=Homo%20sapiens) | 11.00 | 2.55 | + | 2.36E-05 | 1.23E-03 | | [positive regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051495) | [195](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051495&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051495&list=upload_1&organism=Homo%20sapiens) | 6.74 | 2.52 | + | 8.07E-04 | 2.29E-02 | | [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) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010638&list=upload_1&organism=Homo%20sapiens) | 17.57 | 2.33 | + | 1.65E-06 | 1.21E-04 | | [regulation of organelle assembly](http://amigo.geneontology.org/amigo/term/GO:1902115) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902115&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902115&list=upload_1&organism=Homo%20sapiens) | 7.23 | 2.49 | + | 6.55E-04 | 1.93E-02 | | [positive regulation of supramolecular fiber organization](http://amigo.geneontology.org/amigo/term/GO:1902905) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902905&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902905&list=upload_1&organism=Homo%20sapiens) | 6.09 | 2.46 | + | 1.96E-03 | 4.71E-02 | | [negative regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010951) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010951&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010951&list=upload_1&organism=Homo%20sapiens) | 8.58 | 2.45 | + | 3.99E-04 | 1.32E-02 | | [regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052548) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&list=upload_1&organism=Homo%20sapiens) | 14.59 | 1.99 | + | 7.94E-04 | 2.27E-02 | | [regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052547) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&list=upload_1&organism=Homo%20sapiens) | 15.63 | 1.98 | + | 7.12E-04 | 2.07E-02 | | [regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051336) | [1020](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&list=upload_1&organism=Homo%20sapiens) | 35.27 | 1.76 | + | 3.80E-05 | 1.83E-03 | | [negative regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010466) | [257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010466&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010466&list=upload_1&organism=Homo%20sapiens) | 8.89 | 2.48 | + | 2.59E-04 | 9.43E-03 | | [negative regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045861) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045861&list=upload_1&organism=Homo%20sapiens) | 11.93 | 2.60 | + | 6.55E-06 | 4.04E-04 | | [negative regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051346) | [363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051346&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051346&list=upload_1&organism=Homo%20sapiens) | 12.55 | 2.31 | + | 8.22E-05 | 3.59E-03 | | [negative regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0010639) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010639&list=upload_1&organism=Homo%20sapiens) | 11.93 | 2.43 | + | 2.87E-05 | 1.46E-03 | | [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) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&list=upload_1&organism=Homo%20sapiens) | 23.86 | 2.01 | + | 1.40E-05 | 8.09E-04 | | [learning or memory](http://amigo.geneontology.org/amigo/term/GO:0007611) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&list=upload_1&organism=Homo%20sapiens) | 9.51 | 2.42 | + | 2.23E-04 | 8.33E-03 | | [behavior](http://amigo.geneontology.org/amigo/term/GO:0007610) | [606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&list=upload_1&organism=Homo%20sapiens) | 20.96 | 2.10 | + | 1.07E-05 | 6.36E-04 | | [cognition](http://amigo.geneontology.org/amigo/term/GO:0050890) | [317](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050890&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050890&list=upload_1&organism=Homo%20sapiens) | 10.96 | 2.10 | + | 1.89E-03 | 4.55E-02 | | [regulation of chromosome organization](http://amigo.geneontology.org/amigo/term/GO:0033044) | [252](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033044&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033044&list=upload_1&organism=Homo%20sapiens) | 8.71 | 2.41 | + | 4.52E-04 | 1.45E-02 | | [DNA replication](http://amigo.geneontology.org/amigo/term/GO:0006260) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006260&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006260&list=upload_1&organism=Homo%20sapiens) | 7.09 | 2.40 | + | 1.85E-03 | 4.48E-02 | | [DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006259) | [794](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006259&list=upload_1&organism=Homo%20sapiens) | 27.46 | 1.71 | + | 5.66E-04 | 1.72E-02 | | [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) | [133](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006139&list=upload_1&organism=Homo%20sapiens) | 97.69 | 1.36 | + | 3.27E-04 | 1.14E-02 | | [wound healing](http://amigo.geneontology.org/amigo/term/GO:0042060) | [338](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&list=upload_1&organism=Homo%20sapiens) | 11.69 | 2.40 | + | 4.88E-05 | 2.28E-03 | | [response to wounding](http://amigo.geneontology.org/amigo/term/GO:0009611) | [447](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&list=upload_1&organism=Homo%20sapiens) | 15.46 | 2.39 | + | 3.96E-06 | 2.57E-04 | | [response to mechanical stimulus](http://amigo.geneontology.org/amigo/term/GO:0009612) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&list=upload_1&organism=Homo%20sapiens) | 7.54 | 2.39 | + | 1.34E-03 | 3.44E-02 | | [negative regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901215) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&list=upload_1&organism=Homo%20sapiens) | 7.61 | 2.37 | + | 1.42E-03 | 3.62E-02 | | [negative regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030336) | [288](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030336&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030336&list=upload_1&organism=Homo%20sapiens) | 9.96 | 2.31 | + | 3.67E-04 | 1.23E-02 | | [negative regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000146) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000146&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000146&list=upload_1&organism=Homo%20sapiens) | 10.48 | 2.29 | + | 4.58E-04 | 1.46E-02 | | [negative regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040013) | [339](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040013&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040013&list=upload_1&organism=Homo%20sapiens) | 11.72 | 2.22 | + | 3.12E-04 | 1.11E-02 | | [response to hypoxia](http://amigo.geneontology.org/amigo/term/GO:0001666) | [277](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001666&list=upload_1&organism=Homo%20sapiens) | 9.58 | 2.30 | + | 5.26E-04 | 1.62E-02 | | [response to decreased oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0036293) | [290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036293&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036293&list=upload_1&organism=Homo%20sapiens) | 10.03 | 2.29 | + | 3.98E-04 | 1.32E-02 | | [response to oxygen levels](http://amigo.geneontology.org/amigo/term/GO:0070482) | [319](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070482&list=upload_1&organism=Homo%20sapiens) | 11.03 | 2.18 | + | 6.76E-04 | 1.97E-02 | | [response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097305) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&list=upload_1&organism=Homo%20sapiens) | 8.78 | 2.28 | + | 1.04E-03 | 2.78E-02 | | [regulation of intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0033157) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&list=upload_1&organism=Homo%20sapiens) | 7.99 | 2.25 | + | 2.07E-03 | 4.89E-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) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&list=upload_1&organism=Homo%20sapiens) | 17.36 | 1.84 | + | 1.40E-03 | 3.58E-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) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&list=upload_1&organism=Homo%20sapiens) | 11.20 | 2.23 | + | 3.98E-04 | 1.31E-02 | | [vesicle organization](http://amigo.geneontology.org/amigo/term/GO:0016050) | [327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016050&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016050&list=upload_1&organism=Homo%20sapiens) | 11.31 | 2.21 | + | 4.33E-04 | 1.40E-02 | | [synapse organization](http://amigo.geneontology.org/amigo/term/GO:0050808) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&list=upload_1&organism=Homo%20sapiens) | 10.41 | 2.21 | + | 7.94E-04 | 2.26E-02 | | [cell junction organization](http://amigo.geneontology.org/amigo/term/GO:0034330) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&list=upload_1&organism=Homo%20sapiens) | 17.22 | 1.92 | + | 8.06E-04 | 2.29E-02 | | [regulation of calcium ion transport](http://amigo.geneontology.org/amigo/term/GO:0051924) | [264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051924&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051924&list=upload_1&organism=Homo%20sapiens) | 9.13 | 2.19 | + | 2.13E-03 | 4.98E-02 | | [regulation of metal ion transport](http://amigo.geneontology.org/amigo/term/GO:0010959) | [410](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010959&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010959&list=upload_1&organism=Homo%20sapiens) | 14.18 | 2.19 | + | 1.25E-04 | 5.05E-03 | | [proteasome-mediated ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0043161) | [347](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&list=upload_1&organism=Homo%20sapiens) | 12.00 | 2.17 | + | 4.04E-04 | 1.33E-02 | | [ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0006511) | [575](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&list=upload_1&organism=Homo%20sapiens) | 19.88 | 1.81 | + | 1.21E-03 | 3.16E-02 | | [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) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&list=upload_1&organism=Homo%20sapiens) | 20.26 | 1.78 | + | 1.40E-03 | 3.57E-02 | | [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) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&list=upload_1&organism=Homo%20sapiens) | 20.68 | 1.79 | + | 1.05E-03 | 2.79E-02 | | [macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009057) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&list=upload_1&organism=Homo%20sapiens) | 34.20 | 1.61 | + | 1.00E-03 | 2.71E-02 | | [organic substance catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901575) | [1679](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901575&list=upload_1&organism=Homo%20sapiens) | 58.06 | 1.53 | + | 1.01E-04 | 4.29E-03 | | [catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009056) | [1974](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&reflist=1) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009056&list=upload_1&organism=Homo%20sapiens) | 68.26 | 1.54 | + | 1.56E-05 | 8.72E-04 | | [cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044248) | [1625](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044248&list=upload_1&organism=Homo%20sapiens) | 56.20 | 1.48 | + | 5.55E-04 | 1.70E-02 | | [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) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&list=upload_1&organism=Homo%20sapiens) | 22.37 | 1.74 | + | 1.56E-03 | 3.93E-02 | | [protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0030163) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&list=upload_1&organism=Homo%20sapiens) | 26.14 | 1.68 | + | 1.24E-03 | 3.21E-02 | | [organonitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901565) | [1112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&list=upload_1&organism=Homo%20sapiens) | 38.45 | 1.64 | + | 2.17E-04 | 8.22E-03 | | [proteolysis](http://amigo.geneontology.org/amigo/term/GO:0006508) | [1266](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006508&list=upload_1&organism=Homo%20sapiens) | 43.78 | 1.53 | + | 8.91E-04 | 2.47E-02 | | [proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0010498) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&list=upload_1&organism=Homo%20sapiens) | 13.07 | 1.99 | + | 1.75E-03 | 4.32E-02 | | [chromatin remodeling](http://amigo.geneontology.org/amigo/term/GO:0006338) | [323](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006338&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006338&list=upload_1&organism=Homo%20sapiens) | 11.17 | 2.15 | + | 7.65E-04 | 2.21E-02 | | [positive regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045860) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&list=upload_1&organism=Homo%20sapiens) | 14.59 | 2.12 | + | 1.69E-04 | 6.57E-03 | | [positive regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001934) | [748](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&list=upload_1&organism=Homo%20sapiens) | 25.87 | 1.97 | + | 1.19E-05 | 6.98E-04 | | [positive regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042327) | [826](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&list=upload_1&organism=Homo%20sapiens) | 28.56 | 2.17 | + | 4.98E-08 | 5.83E-06 | | [positive regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045937) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&list=upload_1&organism=Homo%20sapiens) | 31.50 | 2.19 | + | 5.02E-09 | 8.03E-07 | | [positive regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010562) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&list=upload_1&organism=Homo%20sapiens) | 31.50 | 2.19 | + | 5.02E-09 | 8.12E-07 | | [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) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&list=upload_1&organism=Homo%20sapiens) | 35.24 | 2.13 | + | 3.67E-09 | 6.05E-07 | | [positive regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0033674) | [499](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&list=upload_1&organism=Homo%20sapiens) | 17.26 | 2.38 | + | 1.17E-06 | 8.89E-05 | | [positive regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051347) | [590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&list=upload_1&organism=Homo%20sapiens) | 20.40 | 2.45 | + | 3.22E-08 | 3.94E-06 | | [positive regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0043085) | [1194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&list=upload_1&organism=Homo%20sapiens) | 41.29 | 1.96 | + | 2.94E-08 | 3.65E-06 | | [positive regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044093) | [1590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&list=upload_1&organism=Homo%20sapiens) | 54.98 | 1.93 | + | 3.28E-10 | 6.85E-08 | | [in utero embryonic development](http://amigo.geneontology.org/amigo/term/GO:0001701) | [395](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&list=upload_1&organism=Homo%20sapiens) | 13.66 | 2.12 | + | 2.96E-04 | 1.06E-02 | | [embryo development ending in birth or egg hatching](http://amigo.geneontology.org/amigo/term/GO:0009792) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&list=upload_1&organism=Homo%20sapiens) | 23.41 | 1.71 | + | 1.98E-03 | 4.72E-02 | | [embryo development](http://amigo.geneontology.org/amigo/term/GO:0009790) | [1059](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009790&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009790&list=upload_1&organism=Homo%20sapiens) | 36.62 | 1.61 | + | 5.76E-04 | 1.75E-02 | | [negative regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902532) | [518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&list=upload_1&organism=Homo%20sapiens) | 17.91 | 2.12 | + | 3.45E-05 | 1.71E-03 | | [regulation of leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:1902105) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902105&list=upload_1&organism=Homo%20sapiens) | 10.93 | 2.10 | + | 1.24E-03 | 3.21E-02 | | [regulation of hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:1903706) | [398](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903706&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903706&list=upload_1&organism=Homo%20sapiens) | 13.76 | 2.03 | + | 8.69E-04 | 2.43E-02 | | [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) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&list=upload_1&organism=Homo%20sapiens) | 52.56 | 1.60 | + | 3.56E-05 | 1.75E-03 | | [heart development](http://amigo.geneontology.org/amigo/term/GO:0007507) | [555](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&list=upload_1&organism=Homo%20sapiens) | 19.19 | 2.08 | + | 3.69E-05 | 1.80E-03 | | [circulatory system development](http://amigo.geneontology.org/amigo/term/GO:0072359) | [909](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&list=upload_1&organism=Homo%20sapiens) | 31.43 | 1.94 | + | 2.29E-06 | 1.61E-04 | | [epidermis development](http://amigo.geneontology.org/amigo/term/GO:0008544) | [321](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008544&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008544&list=upload_1&organism=Homo%20sapiens) | 11.10 | 2.07 | + | 2.01E-03 | 4.78E-02 | | [blood vessel development](http://amigo.geneontology.org/amigo/term/GO:0001568) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&list=upload_1&organism=Homo%20sapiens) | 17.64 | 1.98 | + | 2.40E-04 | 8.91E-03 | | [vasculature development](http://amigo.geneontology.org/amigo/term/GO:0001944) | [532](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&list=upload_1&organism=Homo%20sapiens) | 18.40 | 2.01 | + | 1.24E-04 | 5.00E-03 | | [response to xenobiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009410) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&list=upload_1&organism=Homo%20sapiens) | 14.63 | 1.98 | + | 8.13E-04 | 2.30E-02 | | [regulation of DNA-binding transcription factor activity](http://amigo.geneontology.org/amigo/term/GO:0051090) | [438](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051090&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051090&list=upload_1&organism=Homo%20sapiens) | 15.15 | 1.98 | + | 6.43E-04 | 1.90E-02 | | [developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048589) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&list=upload_1&organism=Homo%20sapiens) | 14.28 | 1.96 | + | 1.16E-03 | 3.04E-02 | | [growth](http://amigo.geneontology.org/amigo/term/GO:0040007) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&list=upload_1&organism=Homo%20sapiens) | 14.28 | 1.96 | + | 1.16E-03 | 3.05E-02 | | [cellular response to cytokine stimulus](http://amigo.geneontology.org/amigo/term/GO:0071345) | [714](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&list=upload_1&organism=Homo%20sapiens) | 24.69 | 1.94 | + | 3.11E-05 | 1.56E-03 | | [response to cytokine](http://amigo.geneontology.org/amigo/term/GO:0034097) | [808](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&list=upload_1&organism=Homo%20sapiens) | 27.94 | 1.97 | + | 4.41E-06 | 2.84E-04 | | [cellular response to organic cyclic compound](http://amigo.geneontology.org/amigo/term/GO:0071407) | [514](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&list=upload_1&organism=Homo%20sapiens) | 17.77 | 1.91 | + | 6.26E-04 | 1.87E-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) | [64](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000122&list=upload_1&organism=Homo%20sapiens) | 33.68 | 1.90 | + | 2.17E-06 | 1.54E-04 | | [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) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045892&list=upload_1&organism=Homo%20sapiens) | 45.75 | 1.86 | + | 1.29E-07 | 1.25E-05 | | [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) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903507&list=upload_1&organism=Homo%20sapiens) | 45.82 | 1.88 | + | 5.72E-08 | 6.45E-06 | | [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) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902679&list=upload_1&organism=Homo%20sapiens) | 45.89 | 1.87 | + | 5.93E-08 | 6.59E-06 | | [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) | [92](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051253&list=upload_1&organism=Homo%20sapiens) | 49.62 | 1.85 | + | 3.21E-08 | 3.96E-06 | | [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) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031327&list=upload_1&organism=Homo%20sapiens) | 55.12 | 1.78 | + | 9.22E-08 | 9.38E-06 | | [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) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009890&list=upload_1&organism=Homo%20sapiens) | 56.16 | 1.76 | + | 8.61E-08 | 9.06E-06 | | [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) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010558&list=upload_1&organism=Homo%20sapiens) | 53.01 | 1.79 | + | 8.37E-08 | 8.93E-06 | | [regulation of hormone levels](http://amigo.geneontology.org/amigo/term/GO:0010817) | [528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010817&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010817&list=upload_1&organism=Homo%20sapiens) | 18.26 | 1.81 | + | 1.77E-03 | 4.34E-02 | | [cellular response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0071417) | [578](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071417&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071417&list=upload_1&organism=Homo%20sapiens) | 19.99 | 1.80 | + | 1.25E-03 | 3.24E-02 | | [membrane organization](http://amigo.geneontology.org/amigo/term/GO:0061024) | [851](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061024&list=upload_1&organism=Homo%20sapiens) | 29.43 | 1.80 | + | 8.87E-05 | 3.85E-03 | | [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) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&list=upload_1&organism=Homo%20sapiens) | 34.55 | 1.79 | + | 2.13E-05 | 1.13E-03 | | [regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001817) | [742](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&list=upload_1&organism=Homo%20sapiens) | 25.66 | 1.79 | + | 2.46E-04 | 9.09E-03 | | [positive regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010628) | [1151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&list=upload_1&organism=Homo%20sapiens) | 39.80 | 1.78 | + | 5.39E-06 | 3.35E-04 | | [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) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&list=upload_1&organism=Homo%20sapiens) | 31.19 | 1.76 | + | 9.60E-05 | 4.10E-03 | | [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) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&list=upload_1&organism=Homo%20sapiens) | 52.39 | 1.74 | + | 7.22E-07 | 5.63E-05 | | [innate immune response](http://amigo.geneontology.org/amigo/term/GO:0045087) | [832](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045087&list=upload_1&organism=Homo%20sapiens) | 28.77 | 1.70 | + | 5.14E-04 | 1.60E-02 | | [response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009607) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&reflist=1) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&list=upload_1&organism=Homo%20sapiens) | 51.11 | 1.45 | + | 1.99E-03 | 4.76E-02 | | [defense response](http://amigo.geneontology.org/amigo/term/GO:0006952) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&reflist=1) | [76](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&list=upload_1&organism=Homo%20sapiens) | 51.11 | 1.49 | + | 9.20E-04 | 2.53E-02 | | [cellular response to oxygen-containing compound](http://amigo.geneontology.org/amigo/term/GO:1901701) | [1059](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&list=upload_1&organism=Homo%20sapiens) | 36.62 | 1.69 | + | 1.07E-04 | 4.49E-03 | | [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) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&list=upload_1&organism=Homo%20sapiens) | 33.65 | 1.66 | + | 3.43E-04 | 1.18E-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) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&list=upload_1&organism=Homo%20sapiens) | 27.28 | 1.65 | + | 1.57E-03 | 3.95E-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) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065003&list=upload_1&organism=Homo%20sapiens) | 43.92 | 1.53 | + | 9.14E-04 | 2.52E-02 | | [cellular component assembly](http://amigo.geneontology.org/amigo/term/GO:0022607) | [2394](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&reflist=1) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&list=upload_1&organism=Homo%20sapiens) | 82.79 | 1.36 | + | 8.98E-04 | 2.48E-02 | | [cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044085) | [2633](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&reflist=1) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&list=upload_1&organism=Homo%20sapiens) | 91.05 | 1.34 | + | 1.17E-03 | 3.06E-02 | | [protein-containing complex organization](http://amigo.geneontology.org/amigo/term/GO:0043933) | [1423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043933&list=upload_1&organism=Homo%20sapiens) | 49.21 | 1.69 | + | 6.86E-06 | 4.20E-04 | | [ion transport](http://amigo.geneontology.org/amigo/term/GO:0006811) | [1202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006811&reflist=1) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006811&list=upload_1&organism=Homo%20sapiens) | 41.57 | 1.52 | + | 1.58E-03 | 3.97E-02 | | Unclassified | [2725](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&list=upload_1&organism=Homo%20sapiens) | 94.23 | .33 | - | 7.55E-15 | 4.39E-12 | | [detection of chemical stimulus involved in sensory perception of smell](http://amigo.geneontology.org/amigo/term/GO:0050911) | [443](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050911&reflist=1) | [2](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050911&list=upload_1&organism=Homo%20sapiens) | 15.32 | .13 | - | 7.66E-05 | 3.38E-03 | | [detection of chemical stimulus involved in sensory perception](http://amigo.geneontology.org/amigo/term/GO:0050907) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050907&reflist=1) | [2](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050907&list=upload_1&organism=Homo%20sapiens) | 16.91 | .12 | - | 1.78E-05 | 9.63E-04 | | [detection of stimulus involved in sensory perception](http://amigo.geneontology.org/amigo/term/GO:0050906) | [560](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050906&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050906&list=upload_1&organism=Homo%20sapiens) | 19.37 | .21 | - | 6.68E-05 | 2.98E-03 | | [detection of chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0009593) | [526](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009593&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009593&list=upload_1&organism=Homo%20sapiens) | 18.19 | .27 | - | 5.40E-04 | 1.66E-02 | | [sensory perception of chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0007606) | [551](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007606&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007606&list=upload_1&organism=Homo%20sapiens) | 19.05 | .21 | - | 6.43E-05 | 2.91E-03 | | [sensory perception of smell](http://amigo.geneontology.org/amigo/term/GO:0007608) | [470](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007608&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007608&list=upload_1&organism=Homo%20sapiens) | 16.25 | .25 | - | 6.66E-04 | 1.96E-02 | |

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